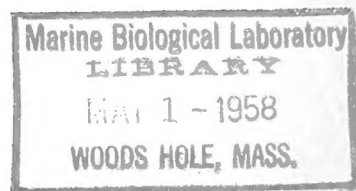


FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Viale delle Terme di Caracalla, Rome, Italy

CURRENT BIBLIOGRAPHY FOR FISHERIES SCIENCE



prepared by
Biology Branch, Fisheries Division

Curr. Bibliogr. Fish. Sci., 1(1):1-11; A1. Rome, April 1958
(containing: references, and author index to, 580001-580066)

Explanatory Notes

1. The scope of the Bibliography is limited to documents referring to studies of living aquatic resources and their environments, or to methods of research applicable in this field. References on fishing craft, gear and methods and on primary fishing industries generally are included where their contents seem relevant to appraisal and use of resources.

2. Each issue of the Bibliography will consist of several sheets with text on both sides or, if a special request is made, on one side only. In the number at bottom right-hand corner of each page, digits preceding the colon identify the volume and part, those following it the page number within the part. (At bottom left-hand corner of each page is an internal scheduling number; at the bottom right-hand corner of the cover-sheet is the number of the project in the programme of work of Biology Branch, under which this Bibliography is produced.) Each issue will include, on blue sheets, an alphabetical index of authors' names to titles in that part, page numbers of which are distinguished by the prefix 'A'. We hope it will be possible also to include indexes to species, places and subjects mentioned in the issue following the one containing the references to which they refer. Cumulative indexes will also be issued from time to time. The cover-sheet carries near the bottom a bibliographic strip, in the form recommended by International Standards Organization (ISO/R.30), defining the contents of issue to which it is attached. The reference sheets and indexes should be assembled separately in standard quarto-size three-ring binders.

3. The references are cited in standard form, to be described fully in a subsequent issue of this Bibliography. Short titles of periodicals are formed as in "World List of Scientific Periodicals", 3rd Ed., London, 1952, and "World Periodicals List for Fisheries Science", the first draft of which was distributed by FAO in 1957. Comments and corrections received are being used in preparing a revised, indexed version of this.

4. Each annotation expands, by up to fifty words, the title of a document so far as is necessary to indicate kinds of organism, time, place and type of observation, fishing method and subjects dealt with.

5. The number at the top right-hand corner of each of the six compartments on a page identifies the reference in that compartment, the first two digits standing for the year of issue; the last four for the accession number during that year.

6. The letter 'M' (for Marine) in the bottom right-hand corner of a compartment signifies that this annotation will be included in the Bibliographia Oceanographica for the appropriate year of publication. The letter 'F' (for Freshwater) in same position indicates that document referred to is relevant to inland fisheries or resources. References to diadromous species, to brackish waters or estuaries, and to techniques and equipment of general application are indicated by combination 'MF'. (Letter combinations in the bottom left-hand corners of boxes record, for internal purposes, location of document and name of annotator.)

CURRENT BIBLIOGRAPHY FOR FISHERIES SCIENCE

This is the first issue of a series which will be distributed at monthly intervals, in the first instance to collaborators in the bibliographic programme of the Biology Branch of FAO Fisheries Division. It contains references, with short indicative annotations, for documents published in 1958 which contribute to knowledge of living resources of the seas and inland waters.

The titles have been selected and annotated mainly by the staff of the Branch. We wish, however, to acknowledge here the collaboration of librarians of research institutions, editors of certain periodicals and individual research workers who are sending us accession lists, special bibliographies and proof copies of forthcoming publications, and are exchanging draft annotations, permitting re-use of some already published or providing annotations of papers which, because of their language or for some other reason, are not readily accessible. In such ways, it is hoped that the coverage of world literature will eventually be virtually complete and titles will be included in the lists with the least possible delay. We hope that the recipients of this Bibliography will help us in this object by commenting on the suitability of its present form, by encouraging their colleagues to send annotated references or reprints of their publications to ensure their prompt inclusion and in any other ways which may be apparent.

If you wish to continue receiving regularly the "Current Bibliography for Fisheries Science", fill in the strip below and send it to:
Chief, Biology Branch, Fisheries Division, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy.

<p>Williams, C.H. (1958) 580001 <u>Discovery</u>, 19:60-4 "DISCOVERY" - Ships of that name</p> <p>Short illustrated account of expeditions and scientific work of these vessels from 1602 to the present day.</p>	<p>Wright, P.G. (1958) 580004 <u>Nature, Lond.</u>, 181:64-5 An electrical receptor in fishes</p> <p>Observations on <u>Mormyrus kannume</u> indicating that it possesses a receptor system sensitive to electrical stimuli not delivered directly to it and localized in the region of the dorsal fin base.</p>
<p>FAO:sjh M</p> <p>Anonymous (1958) 580002 <u>New Sci.</u>, 3(59):9 Finding fish by asdic</p> <p>Comment on the first meeting of the Committee of Enquiry into the state of the fishing industry of the U.K., formed in July 1957. Account of the introduction of echo-sounding and echo-sounding devices for fish detection.</p>	<p>GLK:wad M</p> <p>Nagabushanan, A.K. (1958) 580005 <u>Nature, Lond.</u>, 181:57-8 <u>Sacculina gonoplaxae</u> Guérin-Ganivet, 1911, a Rhizocophalan parasite new to British waters</p> <p>Describes new records that extend its known distribution northwards to the Irish Sea and the Firth of Clyde.</p>
<p>FAO:sjh MF</p> <p>Rosmont, R., J. Bouillon, 580003 P. Castiaux & G. Vandermoerssche (1958) <u>Nature, Lond.</u>, 181:58-9 Ultra-structure of the <u>Chcænocyte</u> collar-cells in freshwater sponges</p> <p>A description based on observation of ultra-thin sections in a species, probably <u>Ephydatia fluviatilis</u>, using the electron microscope.</p>	<p>GLK:wad M</p> <p>Cartwright, D. & A.H. Stride (1958) 580006 <u>Nature, Lond.</u>, 181:41 Large sand waves near the edge of the continental shelf</p> <p>Describes the waves on La Chapelle Bank, 47°41'N, 7°13'W, as determined by echo-sounding.</p>
<p>GLK:wad F</p>	<p>GLK:wad M</p>

<p>Anonymous (1958) 580007 <u>Dansk FiskTid.</u>, 76:49-51 Fiskeriministeren vil indstille rødspættcomplantningerne og lade iveærksætte ørredomplantning</p> <p>(The Ministry of Fisheries will discontinue transplantation of plaice and will start trout transplantation)</p>	<p>Anonymous (1958) 580010 <u>Polar Rec.</u>, 9(58):57-8 Harald Ulrik Sverdrup</p> <p>An obituary and short bibliography.</p>
<p>FAO:tl M</p> <p>Anonymous (1958) 580008 <u>Polar Rec.</u>, 9(58):36-9 Research on anti-icing precautions for ships</p> <p>Summary of unpublished report No.221 (1957) "Trawler-icing research", by the British Shipbuilding Research Association, London, of model experiments carried out by Vickers-Armstrong Ltd.</p>	<p>FAO:sjh M</p> <p>Harker, J.E. (1958) 580011 <u>Biol.Rev.</u>, 33(1):1-52 Diurnal rhythms in the animal kingdom</p> <p>An account of such rhythms treated by taxonomic groups, with special sections on the effects of continuous light or darkness, of environmental changes in cycles of other than 24 hours, of feeding, of barometric pressure, of temperature and of population factors. Gives section on plant rhythms, with general discussion and full bibliography.</p>
<p>FAO:sjh M</p> <p>Anonymous (1958) 580009 <u>Polar Rec.</u>, 9(58):42-3 Soviet Biological Station on the Barents Sea</p> <p>Extract from Kamshilov, M.M. (1957).</p>	<p>FAO:sjh MF</p> <p>Anonymous (1958) 580012 <u>New Sci.</u>, 3(64):11 Tidal model for a university</p> <p>Short description of model of Southampton Water and Solent in Southampton University, and account of the problems of double tides which may be studied with it.</p>
<p>FAO:sjh M</p>	<p>FAO:sjh M</p>

<p>Fichot, H. (1958) 580013 <u>Bull.Com.cent.Océanogr.</u>, 10(1):7-13 Contribution à l'étude des ondes liquides</p> <p>(Contribution to the study of liquid waves) Survey of theoretical developments from the work of Cauchy and Poisson leading to a summary and review of a paper by Risser in <u>J.Ec.polyt.</u>, Paris, 2nd Ser., 24 (1924).</p> <p>FAO:glk MF</p>	<p>Gelci, R. & H. Cazaie (1958) 580016 <u>Bull.Com.cent.Océanogr.</u>, 10:52-63 L'agitation microsismique au Maroc - Corrélation avec la houie et le vent</p> <p>(Microseismic agitation at Morocco - Correlation with swell and wind) Methods; analysis of periods and amplitudes and discussion of the origin and nature of the agitation with reference to the rôle of swell and wind.</p> <p>FAO:glk M</p>
<p>Vantroys, L. (1958) 580014 <u>Bull.Com.cent.Océanogr.</u>, 10(1):14-8 Note sur l'utilisation de la surface libre des mers dans les opérations de nivellement.</p> <p>(Note on the use of the free surface of seas in surveying operations) Discussion of present methods and of means of improving them by reference to current speed and acceleration for accurate determination of mean sea level.</p> <p>FAO:glk M</p>	<p>Vantroys, L. (1958) 580017 <u>Bull.Com.cent.Océanogr.</u>, 10:64-73 Notre ignorance des marées océaniques est-elle sans remède?</p> <p>(Is our ignorance of oceanic tides without remedy?) Brief historical review of the elaboration of a theory of tides, and exposé of a solution referring to rotundity and rotation of the earth, representation of the potential generator, conditions at the lateral limits of the model, and smallness of the relation tide/depth.</p> <p>FAO:glk M</p>
<p>Tchernia, P. (1958) 580015 <u>Bull.Com.cent.Océanogr.</u>, 10(1):19-22 L'eau intermédiaire dans le bassin algéro-provençal</p> <p>(Intermediate water in the Algero-Provençal basin) Characteristics illustrated by T-S diagrams prepared for 10 stations.</p> <p>FAO:glk M</p>	<p>Gillo, P. (1958) 580018 <u>Bull.Com.cent.Océanogr.</u>, 10:74-92 La houle et les vagues en haute mer et sur les côtes</p> <p>(Swell and high-sea and coastal waves) Characteristics of swell, chiefly the probability of its height, with reference to water of limited depth, its deformation under the influence of wind, and its action on fixed works.</p> <p>FAO:glk M</p>

<p>ten Doesschato, J. (1958) 580019 <u>Tabul.biol.</u>, Hague, 22(3), 32 p. Absorption of radiant energy by the ocular media</p> <p>41 tables of the general properties of electro-magnetic radiation, and absorption of infra-red and ultra-violet radiation and of visible light by the ocular media.</p> <p>FAO:glk MF</p>	<p>Lucas, M. (1958) 580022 <u>France Pêche</u>, 3(14):23-5 L'ostréiculture dans le Bas-Médoc</p> <p>(Oyster culture in Bas-Médoc) Brief account of operations.</p> <p>FAO:glk M</p>
<p>Moschkat, A. (1958) 580020 FAO/58/1/699, 22 p. (mimeo) Interim report to the Government of Brazil on the fisheries of the Amazon region</p> <p>Account of a reconnaissance survey, under the Technical Assistance programme, to advise the Brazilian Government on the formulation and implementation of fishery policy relating to the Amazon region. Describes water characteristics, gear in use, types of fish, handling catches.</p> <p>SJH:sjh MF</p>	<p>Galliano, A. (1958) 580023 <u>Corriere d.Pesca</u>, 14(2):1 Cossa la vita nei mari inquinati dal petrolio</p> <p>(Life ceases in oil polluted seas) Article on effects of oil pollution in the Persian Gulf and the North Sea on fishes and birds.</p> <p>FAO:glk M</p>
<p>Florida State Museum (1958) 580021 <u>University of Florida, Gainesville</u>, 20 p. Report of the Director for 1956-57</p> <p>Includes notes on collections of molluscs, aquatic mammals and fishes.</p> <p>FAO(FiB):sjh MF</p>	<p>Nakano, E., G. Giudice & 580024 A. Monroy (1958) <u>Experientia</u>, 14(1):11-2 On the incorporation of S³⁵-methionine in artificially activated sea urchin eggs</p> <p>FAO:glk M</p>

<p>Anonymous (1958) 580025 <u>New Sci.</u>, 3(63):8 Oil under the North Sea?</p> <p>Short appraisal of need for exploration of deep oil borings in the area, considered in relation to coming meeting of United Nations Law Commission to consider offshore rights.</p> <p>FAO:sjh M</p>	<p>Cochrane, A.L. (1958) 580028 <u>New Sci.</u>, 3(63):37 Transom stern trawlers</p> <p>Letter replying to Corlett, E.C.B., <u>New Sci.</u>, 24.10.57.</p> <p>FAO:sjh M</p>
<p>Anonymous (1958) 580026 <u>New Sci.</u>, 3(63):22 Water to see through</p> <p>Short account of process of ultra-filtration of water in connection with long-range under-water photography in tanks.</p> <p>FAO:sjh MF</p>	<p>Corlett, E.C.B. (1958) 580029 <u>New Sci.</u>, 3(63):37 Transom stern trawlers</p> <p>Reply to letter of A.L. Cochrane (1958), Ref. 580028.</p> <p>FAO:sjh M</p>
<p>Anonymous (1958) 580027 <u>New Sci.</u>, 3(63):24-5 Explorer of the the silent world</p> <p>Biography of J.-Y. Cousteau, including account of his contribution to development of submarine equipment.</p> <p>FAO:sjh M</p>	<p>Hammond, A.E. (1958) 580030 <u>Fish.Tr.Gaz.</u>, 3892:15-18, 22 Danish quick-frozen trout</p> <p>A popular article on methods used in the commercial trout industry in Denmark.</p> <p>FAO:wad F</p>

National Cannery Association (1958) 580031
Washington, D.C.
Fishery Information Bulletin,
February 10

Includes complete text of Federal
Fisheries Assistance Act of 1958, S.3229,
introduced to 85th Congress, 2nd
Session, "to provide a 5 year program
of assistance to enable depressed
segments of the U.S. fishing industry
to regain a favorable economic status".

FAO:sjh

MF

Ford, P. (1958) 580034
Canad.J.Zool., 36(1):45-7
Studies on the development of the
kidney of the Pacific pink salmon
(Oncorhynchus gorbuscha (Walbaum))
II. Variation in glomerular count of the
kidney of the Pacific pink salmon

Counts of the glomeruli of pink salmon
fry raised in fresh water were compared
with those of fry raised in sea water.
A significant increase in the count was
observed in fry of the same fork length
raised in fresh water.

FAO:hr

MF

Ronald, K. (1958) 580032
Canad.J.Zool., 36(1):1-6
The metazoan parasites of the Hetero-
somata of the Gulf of St. Lawrence. III.
Copepoda parasitica

Four species and one subspecies of
parasitic copepods are recorded and
briefly described from the Heterosomata
of the Gulf of the St. Lawrence, and
the distribution of the hosts
indicated.

FAO:hr

M

Fisher, K.C. & C.M. Sullivan (1958) 580035
Canad.J.Zool., 36(1):49-63
The effect of temperature on the
spontaneous activity of speckled trout
before and after various lesions of the
brain

The frequency of spontaneous movements
made by speckled trout was determined at
a number of different constant temper-
atures. The relation between the frequency
and temperature was found to be complex,
showing two maxima. Brief consideration
was given to the legitimacy of relating
the activity of animals in different
constant levels of environmental factors
with behavior in gradients of these
factors.

FAO:hr

F

Ford, P. & J.D. Newstead (1958) 580033
Canad.J.Zool., 36(1):15-21
Studies on the development of the
kidney of the Pacific pink salmon
(Oncorhynchus gorbuscha (Walbaum)) I.
The development of the pronephros

The literature relating to pronephros
development in fishes is discussed and
the course of development in the pink
salmon described. The vascularization
of the kidney is described and the
histological differentiation of the
elements of the kidney listed with special
respect to the epithelia of the
tubules. The appearance of the myeloid
tissue is noted.

FAO:hr

MF

Cornwall, I.E. (1958) 580036
Canad.J.Zool., 36(1):79-84
Identifying recent and fossil barnacles

The study of the microstructure of the
shells of sessile barnacles shows that
in many of them there is a figure, or
pattern, that is constant in both recent
and fossil shells of the same species and
this can be used in identification. It
is quite easy to find the pattern in the
shell and the method of doing it is fully
described in this paper.

FAO:hr

M

Haldano, J.B.S. (1958) 580037
New Biol., 25:7-26
Earl Pearson

Biographical sketch and appraisal.

GLK:glk

MF

Yonge, C.M. (1958) 580040
New Biol., 25:118-26
The GALATHIA deep sea expedition

Review of: The GALATHIA deep sea expedition 1950-1952 - Described by members of the expedition. London, George Allen & Unwin Ltd.

GLK:glk

M

Isaac, P.C.G. & M. Lodge (1958) 580038
New Biol., 25:85-97
Algae and sewage treatment

Biochemical oxidation of sewage, oxygen from algae for this purpose, the algal flora of sewage-oxidation ponds, controlled algal-bacterial symbiosis, harvesting and cultivation of algae.

GLK:glk

F

Artüz, I. (1958) 580041
Balık Balıkçılık, 6(1):2-12
Bafa Gölünde Balıkçılık Araştırmaları

(Recent research work on Lake Bafa)
Studies of Mugil capito and M. cophalus.

SJH:sjh

MF

Boycott, B.B. (1958) 580039
New Biol., 25:98-118
The cuttlefish - Sepia

General biological account dealing with chromatic behaviour, behaviour during reproduction and egg-laying; breathing, swimming and food-catching.

GLK:glk

M

Ermin, R. (1958) 580042
Balık Balıkçılık, 6(1):12-6
Hidrobioloji Enstitüsü 1957 Sonesi Faaliyeti

(The activities of the Hydrobiological Research Institute)
Research programme of University Institute at Baltalimani, Istanbul.

SJH:sjh

M

Malbantoglu, U. (1958) 580043
Balik Balikçilik, 6(1):16-20
Muskeli Yengoç Calappa granulata Fabr.
(Cancer granulatus L.)
(About the shamo-faced crab)
An illustrated note on biology of Cancer granulatus L.

SJH:sjh

M

Altan, H. (1958) 580046
Balik Balikçilik, 6(2):18-20
Karadeniz baliklarının polâjik yumurta
ve lârvalarının tâyin anahtarı: 6B -
Sardalya Baligi (Sardinolla aurita) -
Sardalya Tülka Baligi (Cluconolla delicatula delicatula)

(A key to pelagic eggs and larvae of the
Black Sea fishes - 6 B: Sardinolla aurita,
Cluconolla delicatula)
Illustrated.

SJH:sjh

M

Tozel, R. (1958) 580044
Balik Balikçilik, 6(1):26-30
Bogazda Görmedigimiz Yunus Balıklarına
Dair

(Why don't we see dolphins in the
Bosphorus any more?)
An experienced fisherman's view.

SJH:sjh

M

Turgutcan, B. (1958) 580047
Balik Balikçilik, 6(2):21-2
Yarin Hava Nasil Olacak?

(Methods of weather prediction)
Empirical rules based on fisherman's
observations.

SJH:sjh

M

Ermin, R. (1958) 580045
Balik Balikçilik, 6(2):1-7
Akdeniz Kiyilarındaki Bazi Deniz
Biolojisi Enstitülerinde Totkikler

(A survey of some marine biological
stations on the Mediterranean coast)
Notos, with photographs, on visits to
stations in France and Spain.

SJH:sjh

M

Tozel, R. (1958) 580048
Balik Balikçilik, 6(2):23-7
Cositli Balıklardan Mahrum Olusumuzun
Seboplori Hakkinda Bir Dortlesme

(An interview with an old amateur
fisherman in connection with the shortage
of certain fish)
A fisherman's views on shortages of
species in Bosphorus and Marmara Sea.

SJH:sjh

M

<p>Gontcharoff, M. (1958) 580049 <u>C.R.Acad.Sci.Paris, 246:1296-7</u> <u>L'autotomie spontanée de la trompe chez</u> <u>Munomertes ochinoderma</u></p> <p>(Spontaneous autotomy of the proboscis of <u>Munomertes ochinoderma</u>) Reports observations on this Mediterranean nemertine.</p> <p>FAO:sjh M</p>	<p>Villcrot, S. (1958) 580052 <u>C.R.Acad.Sci.Paris, 246:1452-4</u> <u>Recherches sur la présence des enzymes</u> <u>des uréides glyoxyliques chez les</u> <u>Algues marines</u></p> <p>(Studies on the presence of ureo- glyoxylic enzymes in marine algae) Tests with many spp. show that activity varies from one to another without relation to systematic position, but is in general less than in fresh-water forms.</p> <p>FAO:sjh MF</p>
<p>Fischer-Piette, E. (1958) 580050 <u>C.R.Acad.Sci.Paris, 246:1301-3</u> <u>Sur l'écologie intercotidale Ouest-</u> <u>ibérique</u></p> <p>(On the intertidal ecology of the West-Iberian coast) Zonation and latitudinal distribution limits of algae and molluscs south to Morocco.</p> <p>FAO:sjh M</p>	<p>Sweet, A.J. (1958) 580053 <u>I Symposium Nacional de Recursos</u> <u>Naturales de Cuba, Feb.3-14, 1958,</u> <u>Ref. SRNC/PL</u></p> <p>Importance of basic data for resource development</p> <p>A general review, with reference to aquatic resources, charting, etc.</p> <p>HR:sjh MF</p>
<p>Heintz, E. (1958) 580051 <u>C.R.Acad.Sci.Paris, 246:1309-12</u> <u>Action indirecte chimiotropique des</u> <u>rayons γ sur la Bouvière (<u>Rhodus</u></u> <u>amarus B.)</u></p> <p>(Indirect chemotropic action of gamma- rays on the bitterling) Illustrated report of tank experiments showing behavioural reactions to this stimulus through water becoming activated.</p> <p>FAO:sjh F</p>	<p>Ackerman, E.A. (1958) 580054 <u>I Symposium Nacional de Recursos</u> <u>Naturales de Cuba, Feb.3-14, 1958,</u> <u>Ref. SRNC/PL</u></p> <p>National objectives and national policy in natural resource use</p> <p>A general review.</p> <p>HR:sjh MF</p>

Erman, F. (1958) 580055
Balık Balıkçılık, 6(3):9-12
Kofalların Havuzlarda Sun'î Olarak
Yetiştirilme ve Geliştirilmesi Hakkında

(About the artificial feeding of grey
mullots in Israel)
Feeding of Mugil cophalus in ponds.

SJH:sjh

M

Türkan, G. (1958) 580058
Balık Balıkçılık, 6(3):18-20
Torik - Palamut Balıklarının Yaşları
Hakkında Sarda sarda Bloh

(The age determination of bonitoes
and pelamids)
Ill. note on annual rings in otoliths,
scales and fin-rays of Sarda sarda.

SJH:sjh

M

Anonymous (1958) 580056
Balık Balıkçılık, 6(3):12-4
Yinc Yunuslar Hakkında

(About the dolphins which we don't
see any more in the Bosphorus)
A master fisherman's account of
and views on disappearance of Dolphus
dolphinus from Marmara Sea and
Bosphorus.

SJH:sjh

M

Anonymous (1958) 580059
Balık Balıkçılık, 6(3):21-4
Vatoz Balıklarının Bilmediğimiz
Hususiyetlerine Dair

(About the unknown peculiarities of
rays)
Notes on Torpedo and Manta.

SJH:sjh

M

Üner, S. (1958) 580057
Balık Balıkçılık, 6(3):15-7
Hasretini Çektiğimiz Uskumru

(Mackerels for which we have been
yearning for years. Part II)
Observations on scombroids.

SJH:sjh

M

Tezol, R. (1958) 580060
Balık Balıkçılık, 6(3):25-9
Balıklarda Göze Çarpan Hicri
Kargaşalıklar Hakkında

(An interview with an old amateur in
connection with the shortage of certain
fish)
Report of interview with fisherman
concerning irregularities of fish
migrations in Bosphorus and Marmara
Seas.

SJH:sjh

M

Orishaw, H. (1958) 580061
Science, 127:115-28
International Geophysical Year - A
report on the United States program

Halldal, P. (1958) 580064
Physiol.Plant., 11(1):118-53
Action spectra of phototaxis and
related problems in volvocales, ulva-
gametes and dinophyceae

Description of methods and apparatus,
determination of action spectra of
phototaxis and absorption spectra of
living organisms used in the experiment.

FAO

M

FAO:t1

F

Adair, M.J. & 580062
H.S. Vishniac (1958)
Science, 127:147-8
Marine fungus requiring vitamin B₁₂

Tests of the value of Thraustochytrium
globosum as assay organism for B₁₂ in
sea water, this vitamin being required
by the fungus for growth; basal medium
is described in full and results are
given of first experiments.

FAO:glk

M

Nielsen, M.S. & 580065
P.K. Jenson (1958)
Physiol.Plant., 11(1):170-80
Concentration of carbon dioxide and
rate of photosynthesis in Chlorella
pyrenoidosa

Use of Rosenberg's (1954) transient
method with very thin algal suspensions
to measure synthesis rates under a range
of conditions of CO₂ conc. & buffering.
Discussion of results in relation to
previous reports of other authors.

FAO:sjh

F

Smith, J.L.B. (1958) 580063
Ichthyol.Bull., (9):123-9
The Gunnellichthid fishes with
description of two new species from East
Africa and of Gunnellichthys
(Clarkichthys) bilincatus (Clark), 1936

Key to sub-genera of Gunnellichthys and
species of sub-genus Gunnellichthys.

FAO:hr

M

Mundt, M. (1958) 580066
Schiffbautech., 8(1):46-7
Die Doktrin des Kontinentalschelfs

(The doctrine of the continental shelf)
Discussion of the legal questions of
international concern and a short review
of the history of these questions.

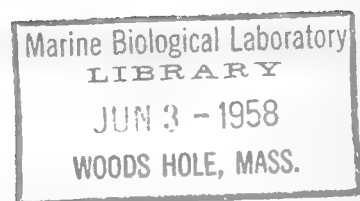
FAO:t1

M

Ackorman, E.A.	580054	Odishaw, H.	580061
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Curr. Bibliogr. Fish. Sci., 1(1):T1; G1 Rome, May 1958
1(2):1-26; A1-2
(containing: taxonomic and geographic indexes to 580001-580066
references, and author index to, 580067-580222)

Explanatory notes

(The following notes are additional to those attached to the first issue of this Bibliography.)

The following describes the convention adopted for this Bibliography to indicate the languages of the texts and summaries of papers annotated.

1. A language is indicated by its standard symbol. A list of the more common symbols follows these notes. The symbols are adapted from the UNESCO "Bibliography of interlingual scientific and technical dictionaries", 1954.
2. The necessary symbols follow the English form of the title after a full stop, whether this form is the original title or a translation of it.
3. Symbols are inserted only for languages other than the language of the original title if this is also the language of the text. The only exception to this rule is the case of a wholly multi-lingual paper, such as are prepared by the Inter-American Tropical Tuna Commission. In such cases, symbols are given for all languages used.
4. When the language of the text is different from that of the title the symbol for the former is underlined and this symbol precedes any others relating to summaries, which latter are not underlined.
5. If the original title is written in other than Latin script and is not transliterated, the English translation is cited as if it were the original, but in parentheses. In such cases, the language symbol of the text is always given and also symbols for all summaries, including the English one if any.
6. In general, where the title is given in several languages, the language of the title quoted is determined by an order of precedence based on that in the appendix of the "World List of Scientific Periodicals" for the languages of proceedings of international congresses, i.e., (1) English, (2) French, (3) Spanish, (4) Russian, (5) German.

With this issue ~~are~~ included on yellow paper taxonomic and geographic indexes to titles annotated in the first issue. The pages for these indexes are distinguished by the letters T and G respectively. It is not at present practicable to issue subject indexes but these will be started as soon as possible.

Common languages. English and native names, and symbols

English name	Native name	Symbol
Afrikaans	Afrikaans	Af
Albanian	Sqip	Sk
Arabic	Arabiya	Ar
Bulgarian	Bulgarski	Bu
Chinese	Chunghwa	Ch
Croatian	Hrvat	Hr
Czech (Bohemian)	Cestina	Cs
Danish	Dansk	Da
Dutch	Nederlands	No
English	English	En
Finnish	Suomi	Su
French	Français	Fr
Gaelic	Gaeilge	Ga
German	Deutsch	De
Greek	Helleniki	He
Hebrew	Iwrit	Iw
Hindi	Hindi	Hi
Hungarian	Magyar	Mg
Icelandic	Islandsk	Is
Italian	Italiano	It
Japanese	Nippon	Ni
Latin	Latinus	Lat
Lettish	Latviski	Lv
Lithuanian	Lietuviskai	Li
Malay (Indonesian)	Malayu	Ml
Norwegian	Norsk	No
Polish	Polski	Pl
Portuguese	Português	Pr
Rumanian	Român	Ro
Russian	Russkij	Ru
Siamese	Thai	Th
Spanish	Espanol	Es
Swedish	Svensk	Sv
Tamil	Tamil	Ta
Turkish	Türkçe	Tü
Ukranian	Ukrainskij	Uk

Deacon, E.L., C.H.B. 580067
 Priestley & W.C. Swinbank (1958)
Climatology, Reviews of Research,
UNESCO, Paris, p. 9-34
 Evaporation and the water balance

Review of the subject, containing also a review of the present stage of knowledge on evaporation from the oceans.

FAO:tl MF

Motwani, M.P. & 580070
 S.J. Karamchandani (1958)
Curr.Sci., 27:55-6
 A note on the food and feeding habits of Clupisoma garua (Hamilton) and Eutropiichthys vacha (Hamilton) from Allahabad (U.P.)

Percentage composition of stomach contents and notes of feeding periods.

FAO:glk F

Drummond, A.J. (1958) 580068
Climatology, Reviews of Research,
UNESCO, Paris, p. 56-74
 Radiation and the thermal balance

Review of the subject, containing also notes on the energy exchange between sea and atmosphere.

FAO:tl MF

Ganapati, P.N. & 580071
 P.V. Bhavanarayana (1958)
Curr.Sci., 27:57-8
 Pelagic tunicates as indicators of water movements off Waltair coast

Preliminary announcement of results of analysis of composition of populations of pelagic tunicates in samples taken at a station in Lawson's Bay, Waltair.

FAO:glk M

Anonymous (1958) 580069
Curr.Sci., 27:48
 Marine Biological Station, Porto Novo (S. India)

Notes on facilities and activities.

FAO:glk M

Baid, I. (1958) 580072
Curr.Sci., 27:58-9
 Occurrence of Artemia salina in Sambhar Lake, Rajasthan

Discussion of taxonomic status; description of the lake in which the find was made, with notes on distribution within the lake, biology and reproduction.

FAO:glk MF

<p>Snodgrass, F.L. (1958) 580073 <u>Trans.Amer.geophys.Un.</u>, 39(1):109-13 Shore-based recorder of low-frequency ocean waves</p> <p>Description of the instrument, its response characteristics and calibration.</p>	<p>Anonymous (1958) 580076 <u>IGY Bull.</u>, (8) In <u>Trans.Amer.geophys.Un.</u>, 39(1):175-8 First sea surface gravimeter</p> <p>Description of the instrument and its operation.</p>
<p>Snodgrass, F., W. Munk & M.J. Tucker (1958) 580074 <u>Trans.Amer.geophys.Un.</u>, 39(1):114-20 Offshore recording of low-frequency ocean waves</p> <p>Description of the instrument, its sensitivity and operation.</p>	<p>Maroc. Service central de statistiques (1958) 580077 <u>Rabat</u>, 36 p. Bulletin mensuel de statistique No. 3 (Monthly statistics bulletin No.3) Includes monthly table of fish landings, by areas, for the period October 1956-November 1957.</p>
<p>Anonymous (1958) 580075 <u>IGY Bull.</u>, (7) In <u>Trans.Amer.geophys.Un.</u>, 39(1):159-62 Oceanographic expedition Downwind</p> <p>Description of the tracks of the expedition in the eastern South Pacific; notes on previous expeditions in the area; observational programme, and short description of participating vessels & their equipment.</p>	<p>Lichardová, E. (1958) 580078 <u>Biológia</u>, 13:129-33 Príspevok k poznaniu jednodňovník (Ephemeroptera) ramion Dunaja a periodických mlák na Zitnom ostrove (Contribution to the knowledge of Ephemeroptera of the dead branches of the Danube and the periodical pools on the Schüttinsel Island) Ru De Short description of the localities of collection and description of 20 spp. of benthic larvae of Ephemeroptera.</p>

<p>Prénant, M. (1958) 580079 <u>C.R.Acad.Sci., Paris, 10:1582-5</u> <u>Ecologie des sables intercotidaux et</u> <u>traduction approximative des données</u> <u>granulométriques en nombres de grains</u></p> <p>(Ecology of intercotidal sands and the rough conversion of granulometric results into numbers of grains) By log-log graphic determination of grain number as a function of sieve mesh size, properties of ecological significance are revealed, & such data relating to beaches of Brittany are made comprehensible.</p> <p>FAO:sjh M</p>	<p>Scott, D.M. & H.D.Fisher (1958) 580082 <u>J.Fish.Res.Bd Canada, 15(1):1-4</u> <u>Incidence of a parasitic ascarid,</u> <u>Porrocaecum decipiens, in the common</u> <u>porpoise, Phocoena phocoena, from the</u> <u>lower Bay of Fundy.</u></p> <p>Infestation rates determined from 150 1952-56 samples; & also one specimen of <u>Dolphinapterus leucas</u> was examined.</p> <p>GLK:sjh M</p>
<p>Hanuška, L. (1958) 580080 <u>Biológia, 13(1):53-6</u> <u>Einige interessante Protozoen der</u> <u>Donau</u></p> <p>(Some interesting Protozoa of the Danube) Ru Cs Description of 3 Actinomyxidia and 2 Suctorina found in the Danube between Bratislava and Stúrovo.</p> <p>FAO:sjh F</p>	<p>Pike, G.C. & B.E.Maxwell (1958) 580083 <u>J.Fish.Res.Bd Canada, 15(1):5-17</u> <u>The abundance and distribution of the</u> <u>North Sea-lion (<u>Eumotopias jubata</u>) on</u> <u>the coast of British Columbia</u></p> <p>Results of a summer census, 1956, compared with previous surveys. Changes in distribution; effect of mortality on the stocks; maturity; reproductive behaviour & rate; rate & causes of pup mortality.</p> <p>GLK:sjh M</p>
<p>Hela, I. (1958) 580081 <u>Helsinki, 23 p. (mimeo)</u> <u>Kortomus merentutkimuslaitoksen</u> <u>toiminnasta vuonna 1957</u></p> <p>(Annual report of the Institute of Marine Science for the year 1957) Description of the activities of the Institute, & of the expeditions with research vessel. List of publications by scientists of the Institute issued in 1957.</p> <p>TL:tl M</p>	<p>DeLury, D.B. (1958) 580084 <u>J.Fish.Res.Bd Canada, 15(1):19-25</u> <u>The estimation of population size by a</u> <u>marking and recapture procedure</u></p> <p>Schumaker and Schnabel estimates are compared and reasons given for preferring the former. This formula is extended to cover mortality and recruitment in the population. Confidence limits are provided according to standard regression theory.</p> <p>GLK:sjh MF</p>

<p>Miller, R.B. (1958) 580085 <u>J.Fish.Res.Bd Canada</u>, 15(1):27-45 The rôle of competition in the mortality of hatchery trout</p> <p>Review of literature shows survival of hatchery trouts (brown, brook, & cut-throat) is poor if there is resident wild population, probably because of competition for food, during which stores of some metabolite are exhausted & they die of acidosis or starvation.</p> <p>GLK:sjh F</p>	<p>Tabata, S. & R.J. LeBrassour (1958) 580088 <u>J.Fish.Res.Bd Canada</u>, 15(1):91-113 Sea water intrusion into the Fraser River and its relation to the incidence of shipworms in Stoveston Cannery Basin</p> <p>River discharge, tides, topography of river channel & basin influence settlement of larvae of <u>Bankia setacea</u>, survival of which is determined by salinity. Prediction that dredging channel would prevent infestation.</p> <p>GLK:sjh MF</p>
<p>Vladykov, V.D. & W.I. Follett (1958) 580086 <u>J.Fish.Res.Bd Canada</u>, 15(1):47-77 Redescription of <u>Lampetra ayrosii</u> (Günther) of Western North America, a species of lamproy (Petromyzontidae) distinct from <u>Lampetra fluviatilis</u> (Linnaeus) of Europe</p> <p>Detailed ill. description of former, & comparison with latter, sp. Distribution, synonymy, morphometry.</p> <p>GLK:sjh MF</p>	<p>Manton, S.M. (1958) 580089 <u>Nature, Lond.</u>, 181:748-51 Embryology of Pogonophora and classifications of animals</p> <p>GLK MF</p>
<p>Trites, R.W. & R.E. Banks (1958) 580087 <u>J.Fish.Res.Bd Canada</u>, 15(1):79-89 Circulation on the Scotian shelf as indicated by drift bottles</p> <p>Analysis of surface movements by drift bottles released in Aug. 1954, suggests a cyclonic circulation centred near Sable Island Bank. Gives calculated drift speeds.</p> <p>GLK:sjh M</p>	<p>Fogg, G.E. & G.T. Boalch (1958) 580090 <u>Nature, Lond.</u>, 181:789-90 Extracellular products in pure cultures of a brown alga</p> <p>Preliminary announcement of an investigation of extracellular products liberated by <u>Ectocarpus confervoides</u> in pure culture, giving chemical characterisation of the products, with a view to current interest in occurrence of dissolved organic substance in natural waters.</p> <p>GLK:glk M</p>

Shatoury, H.H. (1958) 580091
Nature, Lond., 181:790-1
A freshwater mutant of Balanus
amphitrite

Occurrence of a Suez Canal form in a
tank supplied with freshwater from the
Nilo.

GLK:wad F

Anonymous (1958) 580094
Fish.News Lott.Aust., 17(1):9
Progress report on prawn research

Preliminary announcement of progress of
prospecting operations relating to prawn
resources off the coast of Queensland,
Australia.

GLK:glk M

Perkins, E.J. (1958) 580092
Nature, Lond., 181:791
Microbenthos of the shore at Whitstable,
Kent

Miscellaneous observations on
distribution, floral and faunal
composition & abundance, behaviour,
etc.

GLK:wad M

Rosa, H., Jr. (1958) 580095
FAO Fisheries Biology Branch,
FAO/58/2/951, 24 p. (mimeo)
A synopsis of biological data on tench
Tinca tinca (Linnaeus 1758)

First draft summary and review according
to standard pattern of information
accumulated in Species and Stock Thesaurus
of FAO Fish. Division, Biology Branch.

FiB:sjh MF

Anonymous (1958) 580093
Fish.News Lott.Aust., 17(1):5, 9
Trust account aid for 'couta research

Announcement of plans for development
of research on barracouta.

GLK:glk M

Blackburn, M. (1958) 580096
University of California, Scripps
Institution of Oceanography, Ref.58-10,
12 p. (mimeo)
Scripps Tuna Oceanography Research (STOR)
Program - Quarterly Progress Report No.2

Account of progress in the analysis of
data from various expeditions, in
improvements in instrumentation and
evaluation of data, assembly and
installation of monitoring stations, &
of cruises during the quarter being
reported on; appendix on proposed
expedition "Scot".

GLK:glk M

<p>Kajosaari, H. (1958) 580097 <u>FiskTidskr.Finl.</u>, 65(1):3-6 Erotaimonten kasvatus lammikossa</p> <p>(Rearing of female trout in ponds for breeding purposes) Description of the results of investigations in Porla hatchery on the growth of trout, its food requirements, & maturation.</p> <p>FAO:tl F</p>	<p>Anonymous (1958) 580100 <u>FiskTidskr.Finl.</u>, 65(1) Syntykö Säskylän Pyhäjärveen uusi kalalaji</p> <p>(Is there a new fish stock in lake Säskylän Pyhäjärvi) Description of a bastard stock between vendace and powan in the lake.</p> <p>FAO:tl F</p>
<p>Ryhänen, R. (1958) 580098 <u>FiskTidskr.Finl.</u>, 65(1):8-13 Havaintoja kalojen tukhtumisesta ja "tuuletuskokcista" Mäyhäjärvellä</p> <p>(Observations on suffocation of fish and experiences on aeration of lake Mäyhäjävi) Description of the disappearance of oxygen in the ice-covered lake and results of the artificial aeration of it.</p> <p>FAO:tl F</p>	<p>Dill, R.F. (1958) 580101 <u>GeoTimes</u>, 2(8):6-7 Investigating the sea floor with diving geologists</p> <p>Brief description of the uses of Self-Contained-Underwater-Breathing Apparatus in the submarine geological investigations.</p> <p>TL:tl M</p>
<p>Liodos, M. (1958) 580099 <u>FiskTidskr.Finl.</u>, 65(1):15-21 Mitä kalamiehet mieltivät</p> <p>(What fishermen think) Analysis of replies to a questionnaire sent on a nation-wide basis for the purpose of inquiring into the actual problems of fishermen, with a view to improving fishing conditions.</p> <p>FAO:tl M</p>	<p>Tchernia, P., H. Lacombe & P. Guibout (1958) 580102 <u>Bull.Com.cent.Océanogr.</u>, 10:115-43 Sur quelques nouvelles observations hydrologiques relatives à la région équatoriale de l'océan Indien</p> <p>(On some new hydrological observations of the equatorial region of the Indian Ocean) Review of previous work; description of transects and results obtained. An account of the dynamics of the area and comparison of the geostrophic current with current measurements by G.E.K. Station list.</p> <p>FAO:glk M</p>

<p>Bourcart, J., C. Lalou & M. Gennesseaux (1958) 580103 <u>Bull.Com.cent.Océanogr.</u>, 10:144-52 Le relief sous-marin du précontinent entre le Rhône et La Ciotat</p> <p>(The sub-marine relief of the precontinent between the Rhône and La Ciotat) Revision of the chart of the Rhône sub-marine canyon with a view to facilitating study of deposition processes by the river. Description of bottom structure and overlying deposits.</p> <p>FAO:glk M</p>	<p>Union Géodésique et Géophysique Internationale (1958) 580106 <u>Paris</u>, 32 p. Chronique de l'U.G.G.I. No.9</p> <p>(I.U.G.G. Chronicle No.9) En Contains information on meeting and symposia of the Associations of the I.U.G.G. (including the International Association of Physical Oceanography).</p> <p>TL:tl M</p>
<p>Gille, P. (1958) 580104 <u>Bull.Com.cent.Océanogr.</u>, 10:153-7 Phénomènes de houie à Douarnenez</p> <p>(Swell phenomena at Douarnenez) Analysis of swell phenomena with reference to marine works.</p> <p>FAO:glk M</p>	<p>Oppedal, G. (1958) 580107 <u>Fiskeridir.Småskr.</u>, (1), 41 p. Lofotfiskets lønnsomhet 1957</p> <p>(Rentability of Lofot fishery in 1957) Number of fishermen and different types of boats participating in the fishery and results of catches by different types of gear.</p> <p>FAO:tl M</p>
<p>Evans, J.H. (1958) 580105 <u>J.Ecol.</u>, 46(1):149-67 The survival of freshwater algae during dry periods.Part I. An investigation of the algae of five small ponds</p> <p>Preliminary account, with description of the ponds, methods of investigation, climatic factors, list of species, and results of experiments on survival conditions.</p> <p>FAO:tl F</p>	<p>South Africa. Fisheries Development Corporation (1958) 580108 <u>Cape Town</u>, 6 p. Thirteenth annual report</p> <p>The Corporation's research programme, its activities and annual accounts. Covers period 1st October, 1956, to 30th September, 1957.</p> <p>FAO:glk M</p>

La Monte, F.R. et al. (1958). 580109
Bull.Amer.Mus.nat.Hist., 114:377-415
On the biology of the Atlantic marlins,
Makaira ampla (Poey) and Makaira albida
(Poey)

Contains papers by La Monte, F.R.,
Krumholz, L.A., Krumholz L.A. & D.P.
de Sylva, & de Sylva, D.P., which see.

HR:glk

M

Krumholz, L.A. (1958) 580112
In On the biology of the Atlantic
marlins, Makaira ampla (Poey) and
Makaira albida (Poey). Bull.Amer.Mus.
nat.Hist., 114:402-5

Relative weights of some viscera in the
Atlantic marlins

Weight of heart, stomach, caecal mass,
intestine, liver, gall bladder, spleen,
kidney and gonads, as percentage of
total body weight; second table
differentiates these percentages between
sexes.

HR:glk

M

La Monte, F.R. (1958) 580110
In On the biology of the Atlantic
marlins, Makaira ampla (Poey) and
Makaira albida (Poey). Bull.Amer.Mus.
nat.Hist., 114:381-95

Scales of the Atlantic species of
Makaira

Material examined; review of literature;
description of the histology of marlin
skin and of scale structure and
patterns.

HR:glk

M

Krumholz, L.A. & 580113
D.P.de Sylva (1958)
In On the biology of the Atlantic
marlins, Makaira ampla (Poey) and
Makaira albida (Poey). Bull.Amer.Mus.
nat.Hist., 114:406-11

Some foods of marlins near Bimini,
Bahamas

Weight and composition of contents of
stomachs from various individuals and
frequency of occurrence of various
organisms in the stomachs.

HR:glk

M

La Monte, F.R. (1958) 580111
In On the biology of the Atlantic
marlins, Makaira ampla (Poey) and
Makaira albida (Poey). Bull.Amer.Mus.
nat.Hist., 114:396-401

Notes on the alimentary, excretory, and
reproductive organs of Atlantic Makaira

Material examined; description of body
form, mouth region, gills, body cavity.

HR:glk

M

de Sylva, D.P. (1958) 580114
In On the biology of the Atlantic
marlins, Makaira ampla (Poey) and
Makaira albida (Poey). Bull.Amer.Mus.
nat.Hist., 114:412-5

Juvenile blue marlin, Makaira ampla
(Poey), from Miami, Florida, and West End,
Bahamas.

Detailed body measurements.

HR:glk

M

Maroc. Service central de statistiques (1958) 580115
Rabat, 36 p.
Bulletin mensuel de statistique

Includes monthly table of fish landings, by areas, for the period November 1956-November 1957.

FAO:sjh M

Papandrou, A. (1958) 580118
Université de Genève, Faculté de Droit, Thèse No.525

La situation juridique des pêcheries sédentaires en haute-mer

(Juridical situation of sedentary fisheries in the high sea)
Definition of sedentary fisheries and discussion of juridical problems raised by their existence in the high sea; traditional juridical regime of the high sea; practices of states with regard to these fisheries; the juridical basis to the exercise of rights over these fisheries; the doctrine of the continental shelf.

glk M

de Zylva, E.R.A. (1958) 580116
Bull.Dep.Fish., Ceylon, (7), 25 p.
Mechanization of fishing craft and the use of improved fishing gear

Description of the indigenous fishing craft of Ceylon, summary of experiments with non-indigenous craft, report of the results of mechanization of local craft and of the adoption of new fishing techniques.

GLK:glk M

McDougal, M.S. & W.T. Burke (1958) 580119
Yale Law J., 67(4):539-89

Crisis in the law of the sea: community perspectives versus national egoism

Review of writings, legal arguments and conference decisions on aspects of the law of the sea, analysing the processes of claim and decision with respect to exclusive and inclusive rights, and discussing the common interest in an economic balance of exclusive and inclusive uses and the factors influencing authoritative decision makers

glk M

Daubenmire, R.F., R.F. Smith & P.R. Needham (1958) 580117
Bull.ecol.Soc.Amer., 39(1):18-25
Report of the Committee on Applied Ecology

Report of the Committee's activities in connection with the use of insecticides, pollution control, reorganization of the U.S. Fish and Wildlife Service, and conservation of salmon spawning areas.

GLK:glk F

Jakobsson, J. (1958) 580120
Rit Fiskid., 2(5):27 p.

A study of the plankton-herring relationship off the SW-Coast of Iceland

Description of the horizontal and vertical distribution of plankton and the distribution of herring in 1954-55. A brief method of analysis of plankton indicator samples is suggested.

FiB:tl M

<p>Hallgrímsson, I. (1958) 580121 <u>Rit Fiskid.</u>, 2(6):5 p. A short-cut method for estimating zooplankton composition while at sea</p> <p>Short description of the method for estimating species frequency, and comparison of the estimates with conventional counting methods.</p> <p>FiB:tl M</p>	<p>Shimada, B.M. (1958) 580124 <u>Bull.interam.trop.Tuna Comm.</u>, 2:289-363 Geographical distribution of the annual catches of yellowfin and skipjack tuna from the eastern tropical Pacific Ocean from vessel logbook records, 1952-1955 <u>En Es</u></p> <p>Extensive tabulation preceded by description of the sources of data and methods of compilation, discussion of the reliability of logbook catch estimates, of the distributions observed, and of the relation between tuna fishing and oceanographic conditions.</p> <p>FAO:glk M</p>
<p>Anonymous (1958) 580122 <u>Comm.Industr.</u>, 16:293-6 South Africa's fishing harbours</p> <p>Notes on major fishing harbours, landing places, jetties and fishing stations giving location and recent developments, with notes on species caught and on fishing practices.</p> <p>FAO:glk M</p>	<p>Privett, D.W. (1958) 580125 <u>Mar.Obs.</u>, 28(179):23-8 The exchange of heat across the sea surface</p> <p>Discussion of the difficulties encountered in measuring the exchange processes, and in producing an annual evaporation map and an annual heat balance map for the southern hemisphere.</p> <p>FAO:tl M</p>
<p>Salo, E.O. & W.H. Bayliff (1958) 580123 <u>Res.Bull.Wash.Dep.Fish.</u>, (4), 76 p. Artificial and natural production of silver salmon, <u>Oncorhynchus kisutch</u>, at Minter Creek, Washington</p> <p>Detailed description of installations, methods and materials; data on upstream and downstream migration; studies of and comparison between artificial and natural propagation and the production from these methods.</p> <p>FAO:glk MF</p>	<p>Poulson, E.M. (1958) 580126 <u>International Commission for the Northwest Atlantic Fisheries, Halifax, N.S.</u>, 4 p. Newsletter No. 27</p> <p>Contains current information about activities of ICNAF and its committees, publications, news of fishing operations in the N.W. Atlantic as known at date of issue (14.3.1958).</p> <p>FiB:sjh M</p>

<p>Alabama. Department of Conservation (1958) Alexander City, Ala., 200 p. Report for fiscal year October 1, 1956 - September 30, 1957</p> <p>580127</p> <p>Includes reports on hatcheries, fisheries administration & research in connection with inland & marine sport & commercial fisheries.</p> <p>FAO:sjh MF</p>	<p>Suzuki, O. (1958) 580130 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:514-7 On the relation between the length of ground rope of a Danish seine and the variation of its gape</p> <p>Behaviour of closing action with different lengths of ground rope and with different towing speeds were studied, by means of a model test.</p> <p>SJH:sjh M</p>
<p>Sagara, J. (1958) 580128 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:505-10 Artificial discharge of reproductive elements of certain bivalves caused by treatment of sea water and by injection with NH₄OH <u>Ni En</u></p> <p>Experiments with ammonium hydroxide immersion and injections into gonad to induce discharge of sexual products in <u>Mactra veneriformis</u>, <u>M. sulcataria</u>, <u>Meretrix lusoria</u>, <u>Gryphaea gigas</u> and <u>Tapes japonica</u>.</p> <p>SJH:sjh M</p>	<p>Nakagomo, J. (1958) 580131 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:518-22 On the seasonal variation of swimming layers of yellowfin tuna, big cyd tuna and black marlin in the area of Caroline and Marshall Islands. I. On the seasonal variation of swimming layer <u>Ni En</u></p> <p>Depth distributions of <u>Neothunnus macropterus</u>, <u>Parathunnus sibi</u> & <u>Makaira mazara</u> on long-lines studied from monthly data 1951-56.</p> <p>SJH:sjh M</p>
<p>Iitaka, Y. (1958) 580129 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:511-3 Model experiments on the sardine purse seine operating in Hyuganada. V. <u>Ni En</u></p> <p>Comparative study of sinking behaviour of bottom margins of nets made of cotton & of polyvinylidene chloride ("Saran").</p> <p>SJH:sjh M</p>	<p>Nakagomo, J. (1958) 580132 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:523-4 Relation between seasonal variation of swimming layer of yellowfin tuna and big cyd tuna and vertical distribution of chlorinity <u>Ni En</u></p> <p>A study of long-line catches of <u>Neothunnus macropterus</u> & <u>Parathunnus sibi</u> in Caroline & Marshall Is. area.</p> <p>SJH:sjh M</p>

Nakagome, J. (1958) . 580133
Bull.Jap.Soc.sci.Fish., 23:525-8
 Seasonal variation of hooked-ratio and mean fork length and relation among hooked-ratio, mean fork length, sexes and migration of black marlin, Makaira mazara, in the western Pacific Ocean
 Ni En

Differences between these relations in various parts of the area 130°E-160°W, 35°S-30°N.

SJH:sjh

M

Union Internationale des 580136
 Sciences Biologiques (1958)
 Série B (Colloques), No.24, 322 p.
 Biologie comparée des espèces marines dans les différents districts de leur aire de répartition Fr En
 (On the comparative biology of marine species studied in different districts of their area of distribution) Papers presented on: 1) & 2) reproduction & biological cycles in relation to geographic districts & temperature & salinity, 3) morphological & biometric variations in relation to milieu & geographic districts, 4) & 5) physiology & genetics of populations in their various districts, 6) projects for future research; with record of discussions & report. M

Tamura, O. (1958) 580134
Bull.Jap.Soc.sci.Fish., 23:529-33
 Studies on the Japanese anchovy. I. Racial study (2) Ni En

Considers classification by vertebral counts of catches of Engraulis japonicus taken 1951-53 in Tokai, Nankai, & Nihonkai regions; discusses year-class fluctuations, growth of different types & their relation to water temperature, & the classification of shoals by their "entropy" (Doi, 1957).

SJH:sjh

M

Fago, L. & P. Drach (1958) 580137
Un.int.Sci.biol., Sér.B (24):vii-xvi
 Colloque international sur la biologie comparée des espèces marines dans les différents districts de leur aire de répartition - Avant-projet

(International conference on the comparative biology of marine species studied in different districts of their area of distribution - Preliminary plan) Account of the history of the conference, its subject matter, reasons for conducting it, purposes, and the suggestions made for its programme.

FiB:glk

M

Arasaki, S., K. Nozawa 580135
 & M. Miyako (1958)
Bull.Jap.Soc.sci.Fish., 23:534-8
 On the pathogenetic water mold. I.
 Ni En

Observations on life-cycle & culture (with special reference to pH requirements) of Saprolegnia parasitica isolated from Angiulla japonica, Hypomesus solidus (eggs), rainbow trout & their eggs, red wag sword tail & grey mullet.

SJH:sjh

MF

Toissier, G. (1958) 580138
Un.int.Sci.biol., Sér.B (24):xvii
 Allocution de bienvenue
 (Welcoming address)

FiB:glk

M

<p>Korringa, P. (1958) 580139 <u>Un.int.Sci.biol.</u>, Sér.B (24):1-17 Water temperature and brooding throughout the geographical range of <u>Ostrea edulis</u></p> <p>Review of evidence on the relation between temperature and spawning in critical examination of the hypothesis that brooding temperature is a physiological constant for the species and of the alternative hypothesis that the species consists of races brooding at different water temperatures; with discussion of the practical and scientific implications of the conclusion reached.</p> <p>FiB:glk M</p>	<p>Marshall, S.M. & A.P. Orr (1958) 580142 <u>Un.int.Sci.biol.</u>, Sér.B (24):43-7 The life history of the copepod <u>Calanus finmarchicus</u> in different latitudes</p> <p>Discussion of differences in growth, development, migrations and reproduction at different latitudes.</p> <p>FiB:glk M</p>
<p>Lubot, P. (1958) 580140 <u>Un.int.Sci.biol.</u>, Sér.B (24):19-29 Cycle sexuel de <u>Mytilus edulis</u> L. et de <u>Mytilus galloprovincialis</u> Lmk. dans le Bassin d'Arcachon (Gironde)</p> <p>(Sexual cycle of <u>Mytilus edulis</u> L. and of <u>Mytilus galloprovincialis</u> Lmk. in the Arcachon Basin (Gironde))</p> <p>Account of cytological changes in the course of gametogenetic development as basis to report on sexual phenomena at three stations in the chosen locality, related to tidal, temperature and salinity data, and some reference to experiments on the stimuli of the omission of sexual products.</p> <p>FiB:glk M</p>	<p>Feldmann, J. (1958) 580143 <u>Un.int.Sci.biol.</u>, Sér.B (24):49-56 La reproduction des algues marines dans ses rapports avec leur situation géographique</p> <p>(Reproduction of marine algae in relation to their geographic situation)</p> <p>Discussion on evidence on differences, from part to part of area of distribution of a species of algae, in the phenomena of reproduction and alternation of generations and of the means of determining the causes of these variations.</p> <p>FiB:glk M</p>
<p>Durchon, M. (1958) 580141 <u>Un.int.Sci.biol.</u>, Sér.B (24):31-42 Problèmes posés par le comportement des Néréidies au moment de leur reproduction</p> <p>(Problems posed by the behaviour of Nereids at the moment of reproduction)</p> <p>Discussion of observations on reproductive polymorphism in <u>Peronerois cultrifera</u> Grube and <u>Nerois (Ceratonerois) costae</u> Grube, and on differences in swarming behaviour of the former and of <u>Nerois succinea</u> Louckart and <u>Platynerois dumorilii</u> Audouin and M. Edwards.</p> <p>FiB:glk M</p>	<p>Lovring, T. (1958) 580144 <u>Un.int.Sci.biol.</u>, Sér.B (24):57-65 Some modern aspects of growth and reproduction in marine algae in different regions</p> <p>Discussion of the rôle of various environmental factors in determination of certain aspects of growth and reproduction of marine algae.</p> <p>FiB:glk M</p>

<p>Barnes, H. (1958) 580145 <u>Un.int.Sci.biol.</u>, Sér.B (24):67-85 Processes of restoration and synchronization in marine ecology. The spring diatom increase and the "spawning" of the common barnacle, <u>Balanus balanoides</u> (L.)</p> <p>Regional and local evidence on the synchronization of the spring diatom outburst and naupliar development of <u>B. balanoides</u>, with experimental evidence on the stimulus for the release of nauplii as part of the processes involved in synchrony.</p> <p>FiB:glk M</p>	<p>Korringa, P. (1958) 580148 <u>Un.int.Sci.biol.</u>, Sér.B (24):109-16 On the supposed compulsory relation between oviparous oysters and waters of reduced salinity</p> <p>Discussion of published records on the distribution of oviparous oysters and on their anatomical and physiological features indicating adaptation to fluctuating salinity of a low level.</p> <p>FiB:glk M</p>
<p>Kinno, O. (1958) 580146 <u>Un.int.Sci.biol.</u>, Sér.B (24):87-92 A programmatic study of comparative biology of marine and brackish water animals</p> <p>Discussion of field and laboratory investigations required for the establishment of an ecological diagnosis of a species.</p> <p>FiB:glk M</p>	<p>Schlicper, C. (1958) 580149 <u>Un.int.Sci.biol.</u>, Sér.B (24):117-27 Comparative study of <u>Astoria rubens</u> and <u>Mytilus edulis</u> from the North Sea (30 per 1,000 S) and the Western Baltic Sea (15 per 1,000 S)</p> <p>Data on chemical composition, rate of gonad development, rate of oxygen consumption, mechanical activity of frontal cilia, relative rate of heat tolerance, and rate of heart beats.</p> <p>FiB:glk M</p>
<p>Smith, R.I. (1958) 580147 <u>Un.int.Sci.biol.</u>, Sér.B (24):93-107 A note on the tolerance of low salinities by norcid Polychaetes and its relation to temperature and reproductive habit</p> <p>A classification of salinity regimes is given and the osmoregulatory and reproductive modifications necessitated by these are discussed; the effect of temperature on chloride regulation is illustrated by experimental results obtained with <u>Neanthes lighti</u> Hartman.</p> <p>FiB:glk M</p>	<p>Vorwoy, J. (1958) 580150 <u>Un.int.Sci.biol.</u>, Sér.B (24):129-49 A plea for the study of temperature influence on osmotic regulation</p> <p>Examination of published data on osmotic concentrations of the blood of some crustaceans in waters of different salinities, with special reference to differences in the cures for this relation accompanying differences in temperature, and discussion of the mechanisms involved in accommodating seasonal and other changes in temperature and salinity.</p> <p>FiB:glk M</p>

Toissier, G. (1958) 580151
Un.int.Sci.biol., Sér.B (24):151-7.
Formes locales et biométrie

(Local forms and biometry)
Discussion of the use of biometrical methods in the analysis of allometric growth, with special reference to multifactorial analysis.

FiB:glk M

Harder, W. (1958) 580154
Un.int.Sci.biol., Sér.B (24):171-7
Die Darmlänge bei Clupeoiden von Fundorten verschiedener geographischer Breite

(Stomach length in clupeoids from localities of different geographic breadth)
Deals with Engraulis onchrasicholus, E. ringens, E. mordax, Sardinops ocellata, S. melanosticta, S. pilchardus, S. sagax, S. caerulea, Cotengraulis mysticcolus & Clupea harengus, illustrating all but the last, and giving measurements of the last five.

FiB:glk M

Morris, R.W. & B.T. Schoer (1958) 580152
Un.int.Sci.biol., Sér.B (24):159-61
The relation of meristic characters in fishes to temperature and water movements

Data on Clinocottus recalvus taken on the Pacific coast of the U.S.A.

FiB:glk M

Matsakis, J. & G. Potit (1958) 580155
Un.int.Sci.biol., Sér.B (24):179-82
Sens et étendue des variations de la forme du corps chez Idotea viridis, Isopode valvifère

(Nature and extent of variations of body form in Idotea viridis, a valve bearing Isopod)
Summary and discussion of differences observed.

FiB:glk M

Swedmark, M. (1958) 580153
Un.int.Sci.biol., Sér.B (24):163-70
Variation de la croissance et de la taille dans différentes populations du téléostéon Gobius minutus

(Variation in growth and size in different populations of the Teleostean Gobius minutus)

Comparison of population studies at Penpoul in North Brittany, 48°N, and Gullmarsfjord on the Swedish west coast, 58°N, and explanation of the differences observed in terms of varying ecological conditions, chiefly temperature and salinity.

FiB:glk M

Swedmark, B. (1958) 580156
Un.int.Sci.biol., Sér.B (24):183-9
Variation morphologique des différentes populations régionales d'Halammohydra

Identification of various forms from data on variation in number of tentacles and statocysts and the distribution of different categories of nematocysts, and discussion of the determinants of the evolution of these forms.

FiB:glk M

Prosser, C. (1958) 580157
Un.int.Sci.biol., Sér.B (24):191-7
Proposal for study of physiological
variation in marine animals

Reasons why physiological adaptations
do not necessarily correspond with
morphological species and an
enumeration of the kinds of physiological
measurements that might be made on
populations of a single species or of
closely related species.

FiB:glk

M

Marshall, S.M. & 580160
A.P. Orr (1958)
Un.int.Sci.biol., Sér.B (24):221-6
A preliminary note on seasonal changes
in respiration in Copepods

Description of techniques in and
results from recent experimental work.

FiB:glk

M

Bullock, T.H. (1958) 580158
Un.int.Sci.biol., Sér.B (24):199-203
The objectives of studying physiology
as function of latitude and longitude

Discussion of objectives in the study
of physiological ecology with geography
as a major controlled variable.

FiB:glk

M

Harder, W. (1958) 580161
Un.int.Sci.biol., Sér.B (24):227-32
Verhalten von Organismen Gegenüber
Sprungschichten

(Reaction of plankton-organisms to
discontinuity layers)
Summary of previously published work
and a preliminary report of new results.

FiB:glk

M

Fry, F.E.J. (1958) 580159
Un.int.Sci.biol., Sér.B (24):205-19
The lethal temperature as a tool in
taxonomy

Discussion of the value of lethal
temperature as an index of presence or
absence of genetic identity; description
of technique for its determination and
of evidence of the dependence of
temperature lethality on prior
environmental history and concurrent
environmental situation.

FiB:glk

M

Spärck, R. (1958) 580162
Un.int.Sci.biol., Sér.B (24):233-9
The importance of metabolism in the
distribution of marine animals

Deals with the relation between marine
zoogeography on one hand and recent
ecological and physiological results on
the other hand.

FiB:glk

M

Barigozzi, C. (1958) 580163
Un.int.Sci.biol., Sér.B (24):241-50
Différenciation des géotypes et
distribution géographique d'Artemia
salina Leach: données et problèmes

(Differentiation of genotypes and
geographic distribution of Artemia salina
Leach: data and problems)
Description of chromosome constitution
of various observed polyploids, and
analysis of pheno- and genotypic
variation and of the mechanisms
responsible for those; summary of
interesting problems in biology of
Artemia.

FiB:glk M

Božić, B. (1958) 580166
Un.int.Sci.biol., Sér.B (24):269-73
Recherches taxonomiques sur des formes
du genre Tigriopus Norman

(Taxonomic researches on the forms of
the genus Tigriopus Norman)
Discussion of the taxonomic status of
various entities in the light of evidence
of sampling from various situations, and
of the results of various crossing
experiments.

FiB:glk M

Staiger, H. (1958) 580164
Un.int.Sci.biol., Sér.B (24):251-8
Genetical and morphological variation in
Purpura lapillus with respect to local
and regional differentiation of
population groups

Examination of evidence on genetic
heterogeneity and phenotypic polymorphism
in this species as example of the value
of littoral species for a study of the
relation between population genetic
structure and environmental conditions.

FiB:glk M

Zenkevitch, L. (1958) 580167
Un.int.Sci.biol., Sér.B (24):275-7
Propositions adressées au Colloque

(Proposals placed before the Conference)
Suggestions for a plan of collaboration
between European marine biological
stations.

FiB:glk M

Battaglia, B. (1958) 580165
Un.int.Sci.biol., Sér.B (24):259-68
Ecological differentiation and incipient
intraspecific isolation in marine
Copepods

Racial differentiation in Porcollidium
fimbriatum, P. sarsi, P. locanioides and
Tisbe reticulata and examination of the
existence of adaptive differences in
individuals from different populations
and a report of crossing between
populations.

FiB:glk M

Segorstråle, S.G. (1958) 580168
Un.int.Sci.biol., Sér.B (24):279-81
The rôle of the Baltic in the work to
be planned at the Roscoff Symposium

Discussion of salinity and temperature
conditions in the Baltic to show the
favourable opportunities it offers for
special zoogeographic and ecological
studies.

FiB:glk M

<p>Buchsbaum, R. (1958) 580169 <u>Un.int.Sci.biol.</u>, Sér.B (24):283-5 Palaeological factors in the sea</p> <p>Discussion of types of data needed for marine palaeocology and of the opportunities for application of its methods in marine research generally.</p>	<p>Zenkevitch, L. (1958) 580172 <u>Un.int.Sci.biol.</u>, Sér.B (24):317-20 Program of researches of marine biology proposed for the International Geophysical Year</p> <p>Suggestions of lines of research and listing of stations proposed to be coopted to the programme.</p>
<p>FiB:glk M</p> <p>Kostovon, G.L., H. Rosa & S.J. Holt (1958) 580170 <u>Un.int.Sci.biol.</u>, Sér.B (24):287-97 A note on abundance and distribution of marine organisms of economic importance</p> <p>Discussion of the characteristics of marine organisms and the ecological and genetic bases of these characteristics in relation to the needs of fisheries for information on the distribution, abundance and behaviour of species of economic importance, and description of a scheme for the systematic accumulation of data on these matters.</p>	<p>FiB:glk M</p> <p>Mann, K.H. (1958) 580173 <u>J.Inst.Biol.</u>, 5:29 A river studies centre at Reading</p> <p>Notice of establishment of the centre by the University of Reading, with account of equipment, and problems to be studied.</p>
<p>FiB:glk M</p> <p>Bogorov, B.G. (1958) 580171 <u>Un.int.Sci.biol.</u>, Sér.B (24):299-315 Unification of plankton research</p> <p>Recommendations for the collection of quantitative micro- and macro-plankton material, and of material for determination of diurnal phytoplankton production, and recommendations for the treatment of material.</p>	<p>GLK:glk M</p> <p>Graham, A. (1958) 580174 <u>J.Inst.Biol.</u>, 5:37 Plymouth marine fauna</p> <p>Review of book with same title by the Marine Biological Association (1957).</p>
<p>FiB:glk M</p>	<p>GLK:glk M</p>

Romanovsky, V. (1958) 580175
Trav. Cent. Rech. Etud. océanogr., 3(1):3-6
Résultats de quelques mesures de
courants profonds

(Results of some measurements of
deep currents)
Description of techniques of measurement
and calculation of currents in Golfe
de Juan and Golfe de la Napoule, and
the results.

FAO:glk M

Duroche, J. & 580176
J. Serpaud (1958)
Trav. Cent. Rech. Etud. océanogr.,
3(1):9-13
Le courantographe BBT-NEYRPIC -
Description - Fonctionnement -
Utilisation

(The currentograph BBT-NEYRPIC -
Description, operation and use)
General description of construction and
operation; analysis of the causes of
errors of precision in recording
direction and speed; description of
the diagrams produced.

FAO:glk M

Romanovsky, V. (1958) 580177
Trav. Cent. Rech. Etud. océanogr.,
3(1):17-22
Les causes d'erreurs dans la mesure
des courants au point fixe

(The causes of error in the
measurement of currents at a fixed
point)
Discussion of the errors introduced by
movements of the vessel when observ-
ations must be made from a vessel, with
discussion of the conditions under
which such observations may usefully be
made, and comparison of such method of
measurement (for accuracy) with
observations made from an independent
unit. FAO:glk M

Sitarz, J. (1958) 580178
Trav. Cent. Rech. Etud. océanogr.,
3(1):23-31

Mise au point et essais d'un couranto-
mètre électrique à électrodes remorquées
(G.E.K.) le long de la côte méditerra-
néenne d'Antibes à Menton en été 1956

(Review and experiments with an electric
current metre with trailed electrodes
(G.E.K.) along the Mediterranean coast
from Antibes to Menton in the summer of
1956)

Review of the theory of apparatus of this
type. Discussion of the practical aspects
of the use of such apparatus. Report of
experience in the use of the apparatus
and results obtained. FAO:glk M

Romanovsky, V. (1958) 580179
Trav. Cent. Rech. Etud. océanogr.,
3(1):51

Observations océanographiques des
navires stationnaires météorologiques

(Oceanographic observations from
stationary meteorological ships)
Tabulation of surface temperature and
salinity data obtained in 1953 and 1955
by the station at La Rochelle.

FAO:glk M

Anonymous (1958) 580180
Science-Afrique, (10), item 64
Le Troisième Congrès de la P.I.O.S.A.

(The 3rd Meeting of the P.I.O.S.A. -
Pan-Indian Ocean Science Association)
Brief account of the meeting.

HR:glk MF

Anonymous (1958) 580181
Science-Afrique, (10), item 28
Le Colloque sur l'Océanographie et
les pêcheries de la Côte Occidentale
de l'Afrique

(The Colloquium on Oceanography and
Fisheries on the Western Coast of
Africa)
Brief account of the meeting.

HR:glk

M

Murphy, J. & J.P.Riley (1958) 580184
J.Mar.biol.Ass.U.K., 37:9-14
A single-solution method for the
determination of soluble phosphate in
sea water

A reagent containing sulphuric acid,
ammonium molybdate and ascorbic acid
may be used as a single-solution
reagent.

HR:hr

M

Cooper, L.H.N. (1958) 580182
J.Mar.biol.Ass.U.K., 37:1-3
Sea temperatures in Plymouth Sound

Monthly mean sea-water temperatures in
Plymouth Sound, prepared by the
Plymouth City Meteorologist, are
presented as data for ecological
studies in this area. In the last
40 years there has been a rise in mean
temperature of about 0.3°C.

HR:hr

M

Daloz, R.P. (1958) 580185
J.Mar.biol.Ass.U.K., 37:15-31
The function of the heart-body in
polychaetes

Evidence is presented which supports
the view that the heart-body is an
haematopoietic organ, and the
significance of this is discussed.

HR:hr

M

Wilson, D.P. (1958) 580183
J.Mar.biol.Ass.U.K., 37:5-8
On some small Ianthina ianthina (L.)
stranded on the isles of Scilly, 1957

Observations on the effect of growth
on the relations between width and
height, based on measurement of shells.

HR:hr

M

Nicol, J.A.C. (1958) 580186
J.Mar.biol.Ass.U.K., 37:33-41
Luminescence in Polynoids. IV.
Measurements of light intensity

The light energy omitted in a flash by
single clytra of two polynoid worms has
been measured, viz. Acholoë astoricola
and Lagisca extenuata. Maximal omission
occurs at 515 m μ .

HR:hr

M

Nicol, J.A.C. (1958) 580187
J.Mar.biol.Ass.U.K., 37:43-7
Spectral composition of the light of
Pholas dactylus L.

A spectral omission curve for the light of Pholas dactylus has been determined by means of spectral filters and photomultiplier cell. Emission extends from about 440 to 670 m μ , with a maximum at about 490 m μ . The omission curve is compared with the action spectrum determined by Hocht.

HR:hr M

Russell, F.S. (1958) 580190
J.Mar.biol.Ass.U.K., 37:81-4
Notes on the modusa, Amphinoma krampi
Russell

Further notes on the structure of the species observed by sections.

HR:hr M

Southward, A.J. (1958) 580188
J.Mar.biol.Ass.U.K., 37:49-66
Note on the temperature tolerances of some intertidal animals in relation to environmental temperatures and geographical distribution

In experiments on four species of barnacles and four species of top-shells, the barnacles were found to be more resistant to high or low temperatures than the top-shells. Among each group of animals the degree of tolerance was related to the geographical distribution of the species and their zonation on the shore.

HR:hr M

Corner, F.D.S. & 580191
F.H. Rigler (1958)
J.Mar.biol.Ass.U.K., 37:85-96
The modes of action of toxic agents III. Mercuric chloride and N-amylmercuric chloride on crustaceans

Differences between the susceptibilities of Artemia salina and Elminius modestus to the poisons do not reflect differences between the quantities of these compounds which the animals can tolerate in their tissues, but are directly related to the rates at which the poisons are accumulated.

HR:hr M

Llewellyn, J. (1958) 580189
J.Mar.biol.Ass.U.K., 37:67-79
The adhesive mechanisms of monogenetic trematodes: The attachment of species of the diclidophoridae to the gills of gadoid fishes

An investigation of the adhesive mechanism in all nine species of the genus Diclidophora has shown that there is a common structure consisting of a pair of hinged jaws operated by intrinsic muscles and also by a more powerful extrinsic muscle which acts on a diaphragm to produce a suction pressure that is converted into a clamping action.

HR:hr M

Allon, J.A. (1958) 580192
J.Mar.biol.Ass.U.K., 37:97-112
Observations on Cochlodosma pratonuo (Pultoney) (Eulamollibranchia)

The habits, morphology and ciliary feeding and cleansing mechanisms are described and compared with those of members of the related families Thraciidae, Pandoridae and Lyonsiidae. The complex ligament is described. The detailed structure of the siphons is described and related to their function of laying down mucus-lined inhalant and exhalant tubes.

HR:hr M

Green, J. (1958) 580193
J.Mar.biol.Ass.U.K., 37:113-6
Eudactylina racholae n.sp., a Copopod
parasitic on the electric ray, Torpedo
nobiliana Bonaparte

The species, found among the gill
filaments of the electric ray, is
described and illustrated.

HR:hr

M

Barrington, E.J.W. (1958) 580194
J.Mar.biol.Ass.U.K., 37:117-26
The localization of organically bound
iodine in the endostyle of Amphioxus

An account is given of some features of
the organization of the endostyle of
Amphioxus, with particular reference
to the distribution of sites of mucus
secretion as indicated by positive
responses to tests for acid mucopoly-
saccharides.

HR:hr

Spencer, C.P. (1958) 580195
J.Mar.biol.Ass.U.K., 37:127-44
The chemistry of ethylenediamine tetra-
acetic acid in sea water

Records some data on the equilibria set
up when EDTA is added to sea water and
on the effect of variations of certain
controlling factors.

HR:hr

M

Colos, J.W. (1958) 580196
J.Mar.biol.Ass.U.K., 37:145-55
Nematodes parasitic on sea weeds of the
genera Ascophyllum and Fucus

Redescription of Halenchus fucicola,
causing galls on the thallus of the
sea weed Ascophyllum nodosum. A new
species, Halenchus dumnonicus, causing
similar growths on the sea weeds Fucus
vesiculosus and F. serratus is
described.

HR:hr

M

Crisp, D.J. & 580197
A.J. Southward (1958)
J.Mar.biol.Ass.U.K., 37:157-208
The distribution of intertidal
organisms along the coasts of the
English Channel

A study of many of the commoner inter-
tidal organisms of the English and
French sides of the Channel. The
dominant organisms are treated
quantitatively. Patterns of distribution
are related to general trends in the
physical environment and significant
topographical details.

HR:hr

M

Parko, M., I. Manton & 580198
B. Clarke (1958)
J.Mar.biol.Ass.U.K., 37:209-28
Studies on marine flagellates. IV.
Morphology and microanatomy of a new
species of Chrysochromulina

The description of a new species of the
genus Chrysochromulina, C. chiton,
includes for the first time some
evidence from electron microscopy
of sections in addition to the techniques
previously used. Anatomical facts are
given for the first time for the internal
structure of the haptonema. Micro-
anatomical facts are also given.

HR:hr

M

Nowell, G.E. (1958) 580199
J.Mar.biol.Ass.U.K., 37:229-39
The behaviour of Littorina littorea (L.)
under natural conditions and its
relation to position on the shore

A field and laboratory investigation
of patterns of zonation of winkles.

HR:hr M

Loosanoff, V.L. (1958) 580202
Biol.Bull., Woods Hole, 114:57-70
Some aspects of behavior of oysters
at different temperatures

Experimental evidence on the rate of
pumping at different temperatures, and
under various conditions of rate of
temperature change.

FAO:glk MF

Nowell, G.E. (1958) 580200
J.Mar.biol.Ass.U.K., 37:241-66
An experimental analysis of the behaviour
of Littorina littorea (L.) under natural
conditions and in the laboratory

Studies the activities of winkles,
particularly their responses to light
and to gravity.

HR:hr M

Maruyama, K. (1958) 580203
Biol.Bull., Woods Hole, 114:95-105
Contractile protein from crayfish tail
muscle

Myosin B extracted and purified from
Cambarus clarkii; some physicochemical
properties, physical changes with ATP,
and enzyme activity.

FAO:glk M

Hyman, L.H. (1958) 580201
Biol.Bull., Woods Hole, 114:54-6
Notes on the biology of the five-
lunuled sand dollar

Burrowing, the function of the lunules,
distribution of the podia, feeding.

FAO:glk M

Hyman, L.H. (1958) 580204
Biol.Bull., Woods Hole, 114:106-12
The occurrence of chitin in the
lophophorate phyla

Chemical determinations on
representatives of Phoronida, marine
and freshwater ectoprocta.

FAO:glk MF

Neill, W.T. (1958) 580205
Bull.Mar.Sci.Gulf Caribb., 8(1), 97 p.
The occurrence of amphibians and reptiles in saltwater areas, and a bibliography

The paper discusses the occurrence of salamanders, frogs, turtles, crocodilians, lizards, snakes and one tuatara in the saltwater areas of the world. Previously published accounts are summarized, and new findings are also presented.

FAO:glk M

Lacombe, H. & P. Tchornia (1958) 580208
Bull.Com.contr.Océanogr., 10:209-14
Températures et salinités profondes en Méditerranée en période d'été - Etude préliminaire
(Deep temperatures and salinities in the Mediterranean during summer - Preliminary study)
Review of data relating to 1,000, 1,500 & 2,000 m depth, from the THOR (1910), DANA (1921-30), AL LOBO (1923), ELIE MONNIER (1952-55) & CALYPSO (1955-56). T-S diagrams are given and discussed.

FAO:glk M

Bourcart, J. (1958) 580206
Bull.Com.contr.Océanogr., 10:188-91
Rapport sur une mission effectuée à bord de la CALYPSO en mai 1957

(Report of a mission of the CALYPSO in May 1957)
Report of core-sampling operations in the northern Mediterranean off the French Riviera and around Corsica.

FAO:glk M

Saint-Guily, B. (1958) 580209
Bull.Com.contr.Océanogr., 10:215-8
Remarque sur l'importance de la force de Coriolis dans les courants marins

(Remark on the importance of Coriolis force in marine currents)
Appraisal of certain dimensionless parameters that permit qualitative appreciation of this force.

FAO:glk M

Berthois, L. (1958) 580207
Bull.Com.contr.Océanogr., 10:192-208
Observation d'une tranche d'eau suivie dans ses déplacements entre Basse-Indre et Saint-Nazaire

(Observations on a layer of water followed during its displacement between Basse-Indre and Saint-Nazaire)
Hydrographic & meteorological data; methods for detection of movement, measurement of speed, turbidity & salinity; summary description of profiles; discussion of ebb- & flood-tide phenomena, the amplitude of displacement of the layer on ebb- & flood-tide, sedimentation, & the location of maximum turbidity.

FAO:glk M

Lonnon, N. (1958) 580210
Fish.News Lett.Aust., 17(2):27, 29
Commercial fisheries of Hawaii

Brief notes on species caught and methods used.

GLK:glk M

Warburton, F.E. (1958) 580211
Progr.Rep.Atl.Cst Stas, 68:3-5
The effects of boring sponges on oysters

Description of the damage caused by Cliona lobata to shell, muscle and hinge ligament, and its effects on fatness and growth.

GLK:glk

MF

Murray, A.R. (1958) 580214
Progr.Rep.Atl.Cst Stas, 68:20-3
Preliminary biology of Atlantic salmon of the Little Codroy River, Newfoundland

Notes on: life cycle and age designation; number, age and size of spawning adults; age and sex of kelts.

GLK:glk

MF

Fleming, A.M. (1958) 580212
Progr.Rep.Atl.Cst Stas, 68:9-13
The commercial longlining experiment, St. Anthony, Nfld., 1955

Experiment to analyse the profitability of fishing offshore and inshore grounds in early and late parts of the fishing season; description of boats and gear, bait, catches, financial returns and cod sizes.

GLK:glk

M

Barnes, H. & J.J. Gonor (1958) 580215
Nature, Lond., 181:194
Neurosecretory cells in some Cirripedes

A first record of their occurrence in this group.

GLK:wad

M

Templeman, W. (1958) 580213
Progr.Rep.Atl.Cst Stas, 68:15-6
How cod spawn - Nielsen's observations

Quotation of early published reports of observations on cod spawning in hatchery ponds.

GLK:glk

M

Burton, J.D. & J.P. Riley (1958) 580216
Nature, Lond., 181:179-80
Germanium and gallium in sea-water

Notes on the quantities previously reported, on the method used by the authors and preliminary data on the new values of germanium and gallium content of sea water.

GLK:tl

M

Cwilong, B.M. (1958) 580217
Nature, Lond., 181:181
Anomalous atmospheric refraction
at sea

Note on the anomalous refraction
observed by taking astronomical
sights, and description of the use
of polaroids to correct the refraction.

GLK:tl M

Bone, Q. (1958) 580220
Nature, Lond., 181:193-4
Nervous control of cilia in Amphioxus
(Branchiostoma)

GLK M

Kisch, B.S. (1958) 580218
Nature, Lond., 181:206-7
Balanus tulipiformis Ellis on the
Atlantic coast of France and an
unusual situation for B. amphitrite
Darwin

A communication on the occurrence of
the species and possible correlation
of the presence of B. amphitrite with
turbidity of water.

GLK:hr M

Nannoy, C.A. (1958) 580221
Nature, Lond., 181:802-3
Possible correlations between
earthquakes and microseisms

General discussion on the possibility
of correlating changes in the
microseism frequency with earthquakes,
with emphasis on the correlation
between the microseism directions and
the earthquake azimuths.

GLK:tl M

Gholardi, R.J. & W.J. North (1958) 580219
Nature, Lond., 181:207-8
A possible ecological effect of up-
welling in a submarine canyon

Note on the influence of bottom
currents on the abundance and species
composition of benthos.

GLK:tl M

Croutzberg, F. (1958) 580222
Nature, Lond., 181:857-8
Use of tidal streams by migrating
eels (Anguilla vulgaris Turt.)

Observations in the Netherlands based
on catches made during flood and ebb
tides.

GLK:wad MF

Alabama. Department of Conservation	580127	Fleming, A.M.	580212
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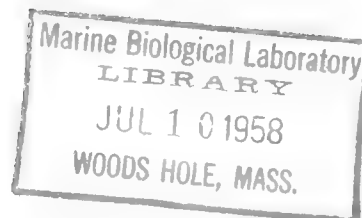
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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Viale delle Terme di Caracalla, Rome, Italy



CURRENT BIBLIOGRAPHY FOR FISHERIES SCIENCE

prepared by

Biology Branch, Fisheries Division

Curr. Bibliogr. Fish. Sci., 1(3):Suppl.1-16 Romo, June 1958

1(2):T1-2; G1

1(3):1-82; A1-5

(containing: geographic classification, taxonomic and geographic indexes to 580223-580714 references, and author index to, 580510-580696)

[2.1(2)]



Explanatory notes

(The following notes are additional to those accompanying the first two issues of this Bibliography.)

1. With this issue we have started to include references to documents published in 1957 which are currently being received and indexed at FAO. These references are distinguished by the year '1957' in parentheses following the author's name, but the serial number for them will nevertheless always begin with the digits '58'. We already have in our files annotations for about 2,000 references to 1957 publications and these will be published separately towards the end of this year as a supplement to this Bibliography, which should then be as near complete as possible for the years from 1957 onwards.

2. On page 1(3):52 you will notice that reference number 580533 extends on to two rectangles and that the next rectangle carries the number 580535. Number 580534 is omitted in order that the pages shall carry numbers in even multiples of six. Normally every attempt will be made to keep references and annotations to a length that can be typed in one rectangle but sometimes, especially with long titles which have to be translated, this is not practicable and the annotation must run on to a second rectangle.

3. A word of explanation is necessary regarding the monthly indexes. For the author index, the pages of which are designated by the prefix 'A', the rules of the American Library Association are followed for alphabetic order, and cross references are given to second and third authors of joint papers. If there are more than three authors, the convention 'et al' is used and no cross references given.

The pages of the taxonomic index are designated by the prefix 'T'. Scientific names down to genus are given in strict alphabetic order with initial capitals in the case of genus, underlined for families, and all capitals for orders and above. The names indexed are in most cases those given in the original document but gradually, as our taxonomic codes are completed, a standard name will be adopted for each genus for the purpose of the index. As far as possible this standard name will be **the taxonomically** valid name. The code we are using for the taxonomic index will be published later as a supplement.

The codes we are using for the geographic index are given as a supplement to this issue. The arrangement of the index is systematic rather than alphabetical, the first part being for land areas, the second for sea areas. When all the codes are complete, including the subject classification which is at present being developed, it is our intention to issue them all as a

separate manual for use with the Bibliography, together with a compilation of these explanatory notes.

Errata

580095 *Tenca* should read: *Tinca*
580135 *Angiulla* " " *Anguilla*
580189 *diclidophoridae* " " *Diclidophoridae*
580194 Insert 'M' in bottom right corner.

The corrections above are for errors we have found whilst indexing the first two issues of the Bibliography. Would anyone finding others that we have overlooked please let us know by postcard.

GEOGRAPHIC CLASSIFICATIONS

The classification of main land areas and the English names of states are based upon "Nomenclature of Geographic Areas for Statistical Purposes", U.N.statist.Pap.Ser.M(1), 1949. The boundaries of sea areas shown on the map, page 16; represent a compromise for bibliographic purposes between natural and political criteria. Sub-divisions of land areas and seas are similar to, but do not exactly correspond with, those given in the FAO "Yearbook of Fishery Statistics", Vol.6, 1955-56.

The following abbreviations are used throughout: Am.= American (U.S.A.); Austr.= Australian; Belg.= Belgian; Br.= British; Fr.= French; Neth.= Netherlands; N.Z.= New Zealand; Norw.= Norwegian; Port.= Portuguese; Sp.= Spanish; S.A.= South African; B.= Bay; G.= Gulf; I(s).= Island(s); L.= Lake; N.= North; S.= South; E.= East; W.= West.

Land Areas Code - Key to first digits

(For Alphabetic Index, see pp.7-14;
for Water Areas Code, see pp.15-16)

- 1 AFRICA
- 2 N. AMERICA
- 3 LATIN AMERICA (S. and Central America)
- 4 ASIA (excl. U.S.S.R.)
- 5 EUROPE (incl. Asia Minor; excl. U.S.S.R.)
- 6 OCEANIA
- 7 UNION OF SOVIET SOCIALIST REPUBLICS (U.S.S.R.)
- 8 SPECIAL INTERCONTINENTAL REGIONAL GROUPINGS

- 100 AFRICA
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- 111 Tunisia
- 112 Algeria
- 113 Morocco
- 114 Sp. Possessions in N. Africa.
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- 115 Sp. Sahara. Ifni
- 120 Northeastern area
- 121 Libya
- 122 United Arab Republic
(~~Egypt~~)
- 123 Sudan
- 124 Eritrea
- 125 Ethiopia
- 126 Fr. Somaliland
- 127 Br. Somaliland. Socotra I.
- 128 Somalia
- 130 Eastern Central area
- 131 Kenya
- 132 Uganda
- 133 Tanganyika
- 134 Zanzibar and Pemba
- 135 Seychelles
- 136 Mauritius
- 140 Western Central area
- 141 Fr. W. Africa
- 142 Cape Verde Is. Port. Guinea
- 143 Liberia
- 144 Gambia. Sierra Leone. Ghana.
Br. Togoland. Fr. Togoland
- 145 Nigeria. Br. Cameroons
- 146 Fr. Equatorial Africa. Fr.
Cameroons
- 147 Belg. Congo. Ruanda-Urundi
- 148 Sp. Guinea. Sao Tomé and
Principe
- 150 Southern area
- 151 Angola. Cabinda
- 152 S. W. Africa
- 153 St. Helena. Ascension. Tristan
da Cunha
- 154 Union of S. Africa. Basutoland.
Swaziland
- 155 Mozambique
- 156 Madagascar and Comoro Is.
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- 157 Federation of Rhodesia and
Nyasaland
- 158 Bechuanaland
- 160 'Is. of S. Indian Ocean'
- 161 Prince Edward and Marion Is. (S.A.)
- 162 Bouvet I. (Norw.)
- 163 New Amsterdam and St. Paul
- 164 Crozet I.
- 165 Kerguelen I. (Fr.)
- 166 Heard and McDonald Is. (Austr.)
- 180 Ethiopian Zoogeographical Region
- 200 N. AMERICA
- 208 Nearctic Zoogeographical Region
- 210 Canada
- 211 Yukon. Northwest Territories incl.
Arctic Is. /
- 212 British Columbia
- 213 Alberta. Saskatchewan. Manitoba
- 214 Ontario
- 215 Quebec
- 216 Newfoundland and Labrador. St.
Pierre and Miquelon
- 217 New Brunswick. Nova Scotia. Prince
Edward I.
- 220 Alaska
- 221 Alaska Mainland
- 222 Aleutian Is. Alaskan Peninsula
- 223 Pribilof Is.
- 230 United States of America
- 230 District of Columbia (Washington)
- 231 Northwestern States:
Washington, Oregon, Idaho
- 232 Southwestern States:
California, Nevada, Utah, Arizona
- 233 Western Central States:
Montana, Wyoming, Colorado

- 234 Eastern Central States:
N. and S. Dakota, Nebraska,
Kansas, Minnesota, Iowa,
Missouri, Wisconsin, Illinois,
Michigan, Indiana, Kentucky,
Ohio, W. Virginia
- 235 Southern States:
New Mexico, Oklahoma, Texas,
Arkansas, Louisiana, Tennessee,
Mississippi, Alabama
- 236 New England:
Maine, Vermont, New Hampshire,
Massachusetts, Connecticut,
Rhode Island
- 237 Middle Atlantic States:
New York, New Jersey, Maryland,
Virginia, Pennsylvania, Delaware
- 238 Southern Atlantic States:
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Florida
- 240 Bermudas
- 250 Greenland
- 300 LATIN AMERICA
- 308 Neotropical Zoogeographical Region
- 310 Central America (Mainland)
- 311 Mexico
- 312 Guatemala
- 313 El Salvador
- 314 Costa Rica
- 315 Panama [incl. Canal Zone]
- 316 Nicaragua
- 317 Honduras
- 318 Br. Honduras
- 320 Caribbean Is.
- 321 Br. W. Indies. Bahama Is.
- 322 Cuba
- 323 Haiti
- 324 Dominican Republic
- 325 Puerto Rico. Virgin Is. (U.S.).
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- 326 Guadeloupe. Martinique
- 327 Neth. W. Indies
- 330 Northern S. America
- 331 Colombia
- 332 Venezuela
- 333 Br. Guiana
- 334 Surinam
- 335 Fr. Guiana
- 340 Western S. America
- 341 Ecuador [incl. Galapagos Is.]
- 342 Peru
- 343 Chile
- 350 Eastern S. America
- 351 Brazil
- 352 Uruguay
- 353 Argentina
- 354 Falkland Is.
- 355 Bolivia
- 356 Paraguay
- 400 ASIA
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- 412 Cyprus
- 413 Israel
- 414 Jordan
- 415 Saudi Arabia. Yemen. Aden Colony
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Oman. Trucial Oman. Kuwait.
Bahrein. Qatar.
- 416 Iraq
- 417 Iran
- 418 Afghanistan
- 420 Central area
- 421 Pakistan [whole country, or W.
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- 422 Jammu and Kashmir
- 423 India [incl. Laccadive and Andaman
Is.]. Sikkim
- 424 Ceylon [incl. Maldive Is.]
- 425 E. Pakistan
- 426 Nepal. Bhutan

427 Port. India [excl. Mahe]
 428 Fr. India
 430 Southeastern area
 431 Burma
 432 Thailand
 433 Malaya. Singapore [incl. Cocos
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 434 Indonesia. Port. Timor
 435 New Guinea (Neth.)
 436 Br. Borneo [incl. Brunei, Sarawak,
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 437 Philippines
 438 Carbodia. Viet Nam. Laos
 440 Eastern area (Mainland)
 441 Chinese People's Republic [incl.
 Tibet, Manchuria and Sinkiang]
 442 Hong Kong
 443 Macau
 444 Korea
 445 Mongolian People's Republic
 450 Eastern area (Is.)
 451 Japan
 452 Ryukyu Is.
 453 Formosa
 454 Bonin Is. Volcano Is.
 480 Oriental Zoogeographical Region
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 510 Scandinavia
 511 Denmark
 512 Faroe Is.
 513 Iceland
 514 Norway
 515 Svalbard. Bear I. Jan Meyen
 516 Sweden
 517 Finland
 520 Western area (Mainland)
 521 Netherlands
 522 Belgium

523 Luxembourg
 524 France
 525 Monaco
 530 British Isles
 531 Ireland
 532 United Kingdom
 540 Southern area
 541 Portugal. Azores. Madeira
 542 Spain. Balearic Is. Andorra
 543 Italy
 544 San Marino
 545 Holy See
 546 Corsica
 547 Malta and Gozo
 548 Gibraltar
 550 Southeastern area
 551 Yugoslavia
 552 Albania
 553 Greece
 554 Bulgaria
 555 Romania
 556 Turkey
 560 Western Central area
 561 German Federal Republic [also
 Germany as a whole]
 562 Switzerland. Liechtenstein
 563 Austria
 570 Eastern Central area
 571 German Democratic Republic
 572 Poland
 573 Czechoslovakia
 574 Hungary
 600 OCEANIA
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 610 Australia
 610 Federal Capital Territory (Canberra)
 611 Northern Territory
 612 Western Australia

613 S. Australia
614 Victoria
615 New S. Wales
616 Queensland
617 Tasmania
618 Norfolk I. Macquarie I.
620 New Guinea Trust Territory
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621 N.E. New Guinea
622 Bismarck Archipelago
623 Bougainville I. Solomon Is.
(Austr.)
624 Papua
630 New Zealand
631 N. and S. Is.
632 Cook Is.
633 Kermadec Is.
634 Campbell I.
635 Niue
636 Tokelau (Union) Is.
637 Chatham, Bounty, Antipodes,
Auckland Is.
640 Eastern Oceania
641 Fr. Oceania
646 Pitcairn
650 Line Is.
651 Christmas I. and other Br.
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652 Palmyra. Jarvis. Howland.
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660 Hawaiian Is.
667 Midway I.
668 Johnston I.
670 Pacific Is. Strategic Trust
Territory. Guam. Wake I.
671 Marianas Is.
672 Palau Is.
673 Caroline Is.
674 Marshall Is.
676 Guam
677 Wake I.

680 Central Groups
681 Br. Solomon Is. [may also incl. 623]
682 New Caledonia
683 New Hebrides
684 Fiji. Tonga
685 Am. Samoa. Western Samoa Trust
Territory
686 Phoenix Is.
687 Gilbert and Ellice Is.
688 Nauru I.
700 UNION OF SOVIET SOCIALIST REPUBLICS
710 Russian Federated S.S.R.
716 Soviet Is. in Arctic Ocean:
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Severnaya Zemlya, Novosibirskiye
Ostrova
720 Karel S.S.R. (Finno-Karelia)
730 Baltic Republics
731 Estonian S.S.R.
732 Latvian S.S.R.
733 Lithuanian S.S.R.
740 Byelorussian S.S.R.
750 Southwestern Republics
751 Ukrainian S.S.R.
752 Moldavian S.S.R.
760 Caucasian Republics
761 Georgian S.S.R.
762 Armenian S.S.R.
763 Azerbaijan S.S.R.
770 Southern Republics
771 Turkmen S.S.R.
772 Uzbek S.S.R.
773 Tadzhik S.S.R.
774 Kirgiz S.S.R.
780 Kazakh S.S.R.

800 SPECIAL INTERCONTINENTAL REGIONAL
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810 Hemispheres and climatic zones

811 Northern Hemisphere

812 Southern Hemisphere

813 Western Hemisphere

814 Eastern Hemisphere

815 Polar Regions

816 Temperate zones

817 Tropics

820 Antarctic Continent

860 Commonwealths; Metropolitan
countries and possessions; etc.

860 Non self-governing territories,
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861 Br. Commonwealth generally

862 Am. Administration

863 Fr. Administration

864 Belg. Administration

865 Sp. Administration

866 Port. Administration

867 Neth. Administration

868 International Administration;
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869 Miscellaneous administration
/incl. Danish, Norw./

880 Zoogeographical Regions /other
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881 Holarctic realm

882 Palaearctic region

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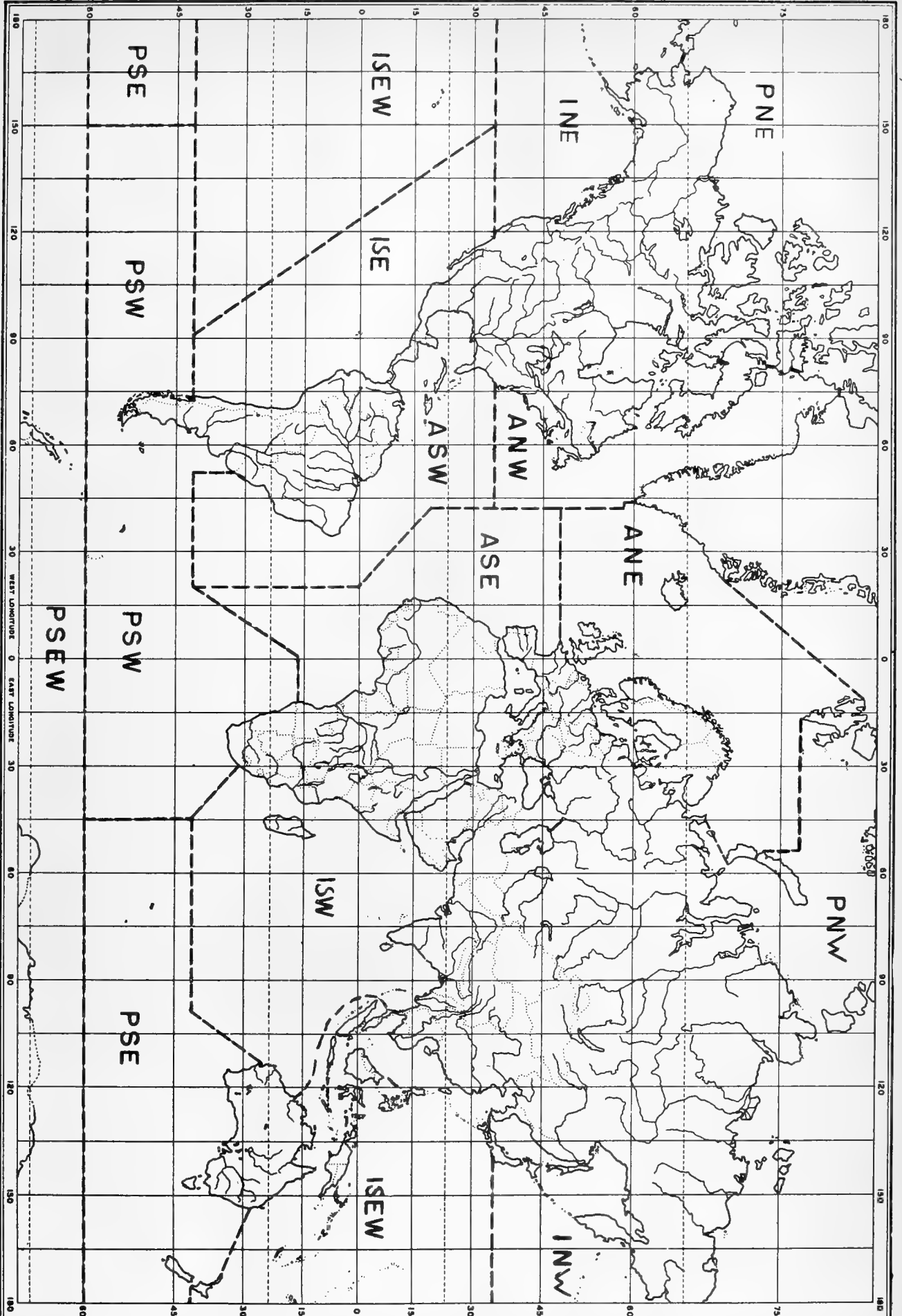
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- ANE Atlantic, N.E.:
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- AS Atlantic, S.
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- IS Tropical Indopacific
- ISW Indian Ocean:
Red Sea, G. of Aden, Persian G., G. of Oman, Arabian Sea, B. of Bengal, Andaman Sea, Mozambique Channel
- ISEW Indopacific, Central:
G. of Thailand, S. China Sea, G. of Tonkin, E. China Sea, Yellow Sea, Inland Sea of Japan, Philippine Sea, Sulu Sea, Celebes Sea, Java Sea, Molucca Sea, Banda Sea, Timor Sea, Arafura Sea, G. of Carpentaria, Bismarck Sea, Solomon Sea, Coral Sea
- ISE Pacific, S.E.:
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- P POLAR SEAS
- PN Arctic Ocean:
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- PS Southern Ocean
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- L INLAND SEAS AND INTERTERRITORIAL LAKE SYSTEMS
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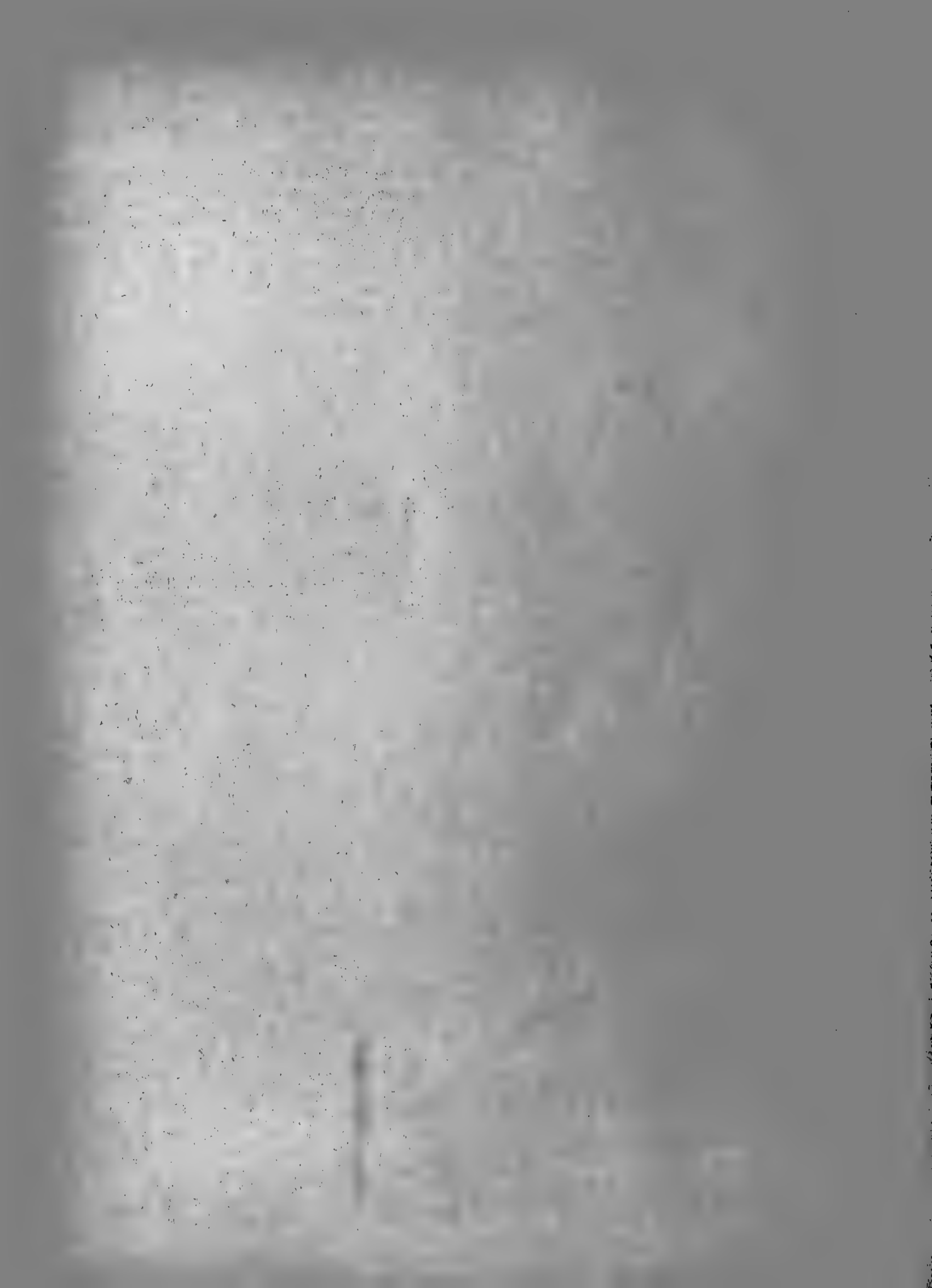
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Bortol森, E. (1958) 580223
Nature, Lond., 181:862-3
A new type of light organ in the
deep-sea fish Opisthoproctus

A preliminary report on a presumed
reflector organ and rectal light-
organ.

GLK:wad M

Tokida, J. & H. Ohmi (1958) 580226
Nature, Lond., 181:923-4
A chimaera of Alaria and Laminaria
found in nature

Detailed description of a specimen from
Hokkaido - believed to be the first
record of this type of chimaera - and
a suggested explanation of its origin.

GLK:wad M

Watts, J.C.D. (1958) 580224
Nature, Lond., 181:863-4
Thermocline off the coast of tropical
West Africa

Description of the sharpness and
depth of the thermocline in various
localities along the West African
shelf, and suggestions on its possible
influence on distribution and species
composition of demersal fish fauna.

GLK:t1 M

Carlisle, D.B. (1958) 580227
Nature, Lond., 181:933
Niobium in ascidians

Spectrographic and chromatographic
analyses of Phallusia mammillata and
Molgula manhattensis for niobium and
vanadium.

GLK:wad M

Bowdon, K.F. (1958) 580225
Nature, Lond., 181:888-9
National Oceanographic Council -
Annual report 1956-57

A summary of the report, describing
the activities of the National
Institute of Oceanography and its
research vessel DISCOVERY II.

GLK:t1 M

Jónsson, J. (1958) 580228
Aegir, 51(2):1-6
Gongur íslenzki þorskurinn til Austur
Grænlands?

(On the connection between the Icelandic
and East Greenlandic stocks of cod)
Analysis of material collected from the
south-east and south-west coasts of
Greenland in 1957; age distribution and
average lengths, spawning conditions,
comparison with Icelandic stock.

F1B:glk M

<p>Manning, J. (1958) 580229 <u>Sea Frontiers</u>, 4(1):5-12 "Robinson Crusoe" waters</p> <p>Notes on the marine resources around the Juan Fernandez islands off Chilean coast.</p> <p>HR:tl M</p>	<p>Voss, G.L. & N.A. Voss (1958) 580232 <u>Sea Frontiers</u>, 4(1):27-37 Prince of oceanography</p> <p>Popular notes on the activities of Prince Albert I of Monaco as oceanographer and marine biologist.</p> <p>HR:tl M</p>
<p>Miller, S. (1958) 580230 <u>Sea Frontiers</u>, 4(1):13-22 Why shipbottom paints fail</p> <p>Popular notes on marine fouling: its cause and prevention.</p> <p>HR:tl M</p>	<p>Long, E.J. (1958) 580233 <u>Sea Frontiers</u>, 4(1):38-41 Almost too ugly for words!</p> <p>Notes on the behaviour and distribution of the frogfishes (<u>Antennariidae</u>).</p> <p>HR:tl M</p>
<p>Dickson, F.J. (1958) 580231 <u>Sea Frontiers</u>, 4(1):23-6 Estuary and marsh</p> <p>Notes on the activities and scientific problems of the Marine Laboratory of the University of Georgia.</p> <p>HR:tl MF</p>	<p>Idyll, C.P. & W. Saenz (1958) 580234 <u>Sea Frontiers</u>, 4(1):42-50 Honduras - A fisheries potential</p> <p>Review of the fisheries of Honduras, the prices and demand for fish, and prognoses on the fisheries resources in the waters around Honduras.</p> <p>HR:tl M</p>

<p>Emiliani, C. (1958) 580235 <u>Sea Frontiers</u>, 4(1):51-6 Age of man and the sea floor</p> <p>Popular notes on submarine geology with emphasis on paleoclimatology.</p> <p>HR:tl M</p>	<p>Clark, D.S., Jr. (1958) 580238 <u>Norsk Hvalfangsttid.</u>, 47:138-43 Right whale (<u>Balaena glacialis</u>) enters Cape Cod Canal, Massachusetts, U.S.A. <u>No</u> <u>En</u></p> <p>Note on the behaviour of the whale.</p> <p>FAO:tl M</p>
<p>Martin, D.C. (1958) 580236 <u>Geogr.J.</u>, 124(1):18-29 The International Geophysical Year</p> <p>A general account of the program, with emphasis on contribution by United Kingdom.</p> <p>FAO:sjh M</p>	<p>Anonymous (1958) 580239 <u>Norsk Hvalfangsttid.</u>, 47:143-4 Catch reports - The summer season 1957. <u>No</u> <u>En</u></p> <p>Whaling statistics.</p> <p>FAO M</p>
<p>Chittleborough, R.G. (1958) 580237 <u>Norsk Hvalfangsttid.</u>, 47:109-37 An analysis of recent catches of humpback whales from the stocks in Groups IV and V. <u>No</u> <u>En</u></p> <p>The catch returns of the whaling stations and catches of humpback whales from Areas IV and V of the Antarctic from 1900 to 1956 are analysed and the effects of the total fishing effort upon the populations is examined.</p> <p>FAO:tl M</p>	<p>Anonymous (1958) 580240 <u>Norsk Hvalfangsttid.</u>, 47:147 Catch reports from South Georgia. <u>No</u> <u>En</u></p> <p>Whaling statistics.</p> <p>FAO M</p>

<p>Anonymous (1958) 580241 <u>Norsk Hvalfangsttid.</u>, 47:148-9 Pelagic whaling in the Antarctic 1957/58. <u>No</u> <u>En</u></p>	<p>Anonymous (1958) 580244 <u>New Scient.</u>, 3(68):34 Another Arctic ridge</p> <p>A note, with map, on discovery, from a Drifting IGY Station on an ice-floe, of a new submarine ridge at 5,000 ft, 83$\frac{1}{2}$° N, 167° W.</p>
<p>FAO M</p> <p>Anonymous (1958) 580242 <u>World Fish.</u>, 7(1):54-6 Uganda markets £1,200,000 of fish a year - There is scope for a substantial fishing industry in the future</p> <p>Popular review of the fishing industry.</p>	<p>FAO:sjh M</p> <p>Klingler, K. (1958) 580245 <u>Allg.Fisch.Ztg.</u>, 83(1-2):3-8 Forellonfütterung und neue Krankheit (infektiöse Nierenschwellung und Leberdegeneration der Regenbogenforelle = INuL)</p> <p>(Feeding of trout and a new disease (infectious kidney swelling and liver degeneration of the rainbow trout)) Description of the symptoms of the disease, its cause and methods of control.</p>
<p>FiB:wad F</p> <p>Anonymous (1958) 580243 <u>New Scient.</u>, 3(68):9 Round the world in ATLANTIS</p> <p>Brief note on the oceanographic programme of IGY.</p>	<p>WAD:tl F</p> <p>de Clorville, (1958) 580246 <u>Pêche marit.</u>, 37(960):137-40 M. de Clorville expose les buts de la Société d'étude pour la pêche en Afrique noire</p> <p>(M. de Clorville explains the aims of the Society for the Study of Fisheries in Black Africa) Statement by the President of the Society for the Study of Fisheries in Black Africa of the Society's views on the importance of these fisheries and its own objectives.</p>
<p>FAO:sjh M</p>	<p>FAO:glk M</p>

Svenonius, B. (1958) 580247
Vandringsfisk. Medd., (3):3 p.
Några synpunkter beträffande
fisksjukdomarnas betydelse för smolt-
odlingen

(Some views concerning the influence of
fish diseases on culture of salmon
smolt)

TL MF

Batos, C.C. (1958) 580250
Mar. Obs., 28(180):82-90
Sea ice and its relation to surface
supply problems in the American Arctic

Description of ice conditions and
navigability of the American Arctic.

FAO:t1 M

Carlin, B. (1958) 580248
Vandringsfisk. Medd., (2):18 p.
Preliminär redogörelse för
vandringsfiskutredningens märkningar av
odlade laxungar

(Preliminary report on the tagging of
reared salmon smolt by Swedish Migratory
Fish Committee)

Report on the percentual recapture, the
distribution of recapture in different
areas and by different nations in the
Baltic Sea area and the weight of salmon
recaptured.

TL:t1 MF

R.P. (1958) 580251
Mar. Obs., 28(180):95-9
Weather charts plotted at sea -
Oceanic areas

Comparison of accuracy of the weather
charts plotted on board with those
plotted in the Marine Division of
Meteorological Office.

FAO:t1 M

Sandvaer, G. (1958) 580249
Aarsberetn.Norg.Fisk., (5):86 p.
Lofotfiskot 1957

(Fishing in Lofoten 1957)

Report on the amounts and types of gear
and boats participating in the fishery,
catches and values, and review of other
activities connected with fishery.

FAO:t1 M

Rox, R.W. & E.D. Goldberg (1958) 580252
Tellus, 10(1):153-9
Quartz contents of pelagic sediments
of the Pacific Ocean

Quantitative investigation of quartz
in deep sea sediment cores in the Eastern
Pacific, the areal and depth distribution
of quartz, and interpretation of the
possibilities of transport of quartz,
its origin, and suggestion that the
change of quartz content with the depth
of the cores, indicate climatic changes
in the past.

FAO:t1 M

Danel, P. (1958) 580253
Discovery, 19:188-92
The hydraulic scale model

Ill. description of research at experimental station of Société Grenobloise d'Etudes et d'Applications Hydrauliques, on rivers and estuaries, sandbank formation, tidal movements.

FAO:sjh

MF

General Fisheries Council 580256
for the Mediterranean (1958)
Stud.Rev.gen.Fish.Coun.Medit., (3):23 p.
Water pollution caused by wastes from sugar refineries

Reviews prepared by the authors, Maldura, C. & P. Vivier, as working papers for the General Fisheries Council for the Mediterranean.

FiB:sjh

F

Trowavas, E. (1958) 580254
Discovery, 19:196-205
The Coelacanth yields its secrets

Detailed ill. account of facts now known about biology and relationships of Latimeria chalumnae, with full bibliog.

FAO:sjh

M

Maldura, C. (1958) 580257
In "Water pollution caused by wastes from sugar refineries", Stud.Rev.gen.Fish.Coun.Medit., (3):3-10
Purification of waste waters from sugar refineries - The situation in Italy

A review of methods and laws.

FiB:sjh

F

Anonymous (1958) 580255
Discovery, 19:217-8
Cambridge Underwater Expedition to Apollonia

Notice of plan to explore submerged harbour in Libya.

FAO:sjh

M

Vivier, P. (1958) 580258
In "Water pollution caused by wastes from sugar refineries", Stud.Rev.gen.Fish.Coun.Medit., (3):11-23
Water pollution in France caused by wastes from sugar refineries

Examples of extent of pollution; studies made, and amelioratory and legislative measures taken and proposed.

FiB:sjh

F

<p>Baltardivo, C. (1958) 580259 <u>C.R.Acad.Sci., Paris, 246:2295-6.</u> Sur la régénération de la région pharyngienne chez <u>Syllis gracilis</u> Grube (Annélido Polychète)</p> <p>(On the regeneration of the pharyngeal region of <u>Syllis gracilis</u> Grube (Polychaete annelid)) A short note on an experimental and histological study of this phenomenon.</p> <p>FAO:sjh M</p>	<p>Nigeria. Federal Fisheries 580262 Service (1958) <u>Lagos, 10 p.</u> Annual report for the year 1956-57</p> <p>Staff, visitors, organization, meetings. Proposals for future development of service; Research projects. (Sea-Fishing- Scientific; Sea-Fishing-Technological; Fish Culture - Technological).</p> <p>FAO:sjh MF</p>
<p>Durchon, M. (1958) 580260 <u>C.R.Acad.Sci., Paris, 246:2297-8</u> Potentialités de sexualisation réelles et virtuelles au cours de la stloni- sation chez les Syllinae (Annélidos Polychètes)</p> <p>(Real and virtual sexual potential during stolonization in the Syllinae (Polichaete annelids)) Note on experiments with, and observations on <u>Syllis amica</u>, <u>S.</u> <u>vittata</u> and <u>Trypanosyllis zebra</u>.</p> <p>FAO:sjh M</p>	<p>Gunston, D. (1958) 580263 <u>Penn. Anglor, 27(1):6-7</u> Fish growing old</p> <p>Popular article on growth and age in fish; gives some longevity records.</p> <p>FiB:wad MF</p>
<p>Wright, P.G. (1958) 580261 <u>Nature, Lond., 181:64-5</u> An electrical receptor in fishes</p> <p>Reports on some evidence for the existence of an electrical receptor in <u>Mormyrus kannume</u>.</p> <p>GLK:hr F</p>	<p>Dunbar, J. (1958) 580264 <u>Collins, 192 p.</u> The lost land - Underwater exploration in the isles of Scilly</p> <p>M</p>

Iyer, H.M. & J. Darbyshire (1958) 580265
New Scient., 3(69):16-8

The study of microseisms for storm forecasting

Short ill. review of this problem, with consideration of methods of determining directions of arrival of disturbances at recording stations, especially by identification of Love and Rayleigh components. Use in pin-pointing oceanic storm centres at up to 1000 miles range.

FAO:sjh

M

Shoarer, W.M. (1958) 580268

Freshw.Salm.Fish.Res., (20):11 p.

The movements of salmon tagged in the sea, Montrose, 1954, 1955

Describes methods and results of experiments with Salmo salar in Scotland.

FAO:wad

MF

Anonymous (1958) 580266

New Scient., 3(69):20

Bacteria that combat water pollution

Biological oxidation used to destroy phenols and cresols in ammoniacal effluents from coal carbonisation.

FAO:sjh

F

Thorson, T.B. (1958) 580269

Physiol.Zool., 31(1):16-23

Measurement of the fluid compartments of four species of marine Chondrichthyes

Techniques and results of plasma volume, extracellular fluid volume, interstitial fluid and total body water estimation in Hydrolagus collici, Squalus acanthias, Raja binoculata, and R. rhina.

FAO:sjh

M

Manton, S.M. (1958) 580267

Nature, Lond., 181:748-51

Embryology of Pogonophora and classifications of animals

Embriology of eggs mainly of Siboglinum caulleryi from Sea of Okhotsk studied by A.V. Ivanov.

GLK:sjh

M

Rulon, O. (1958) 580270

Physiol.Zool., 31(1):28-36

The differential action of hydroxylamine on developmental processes in the sand dollar

Experiments on exposure of fertilized eggs of Dendraster excentricus to various concs. of hydroxylamine.

FAO:sjh

M

<p>Emiliani, C. (1958) 580271 <u>Sci.Amer.</u>, 198(2):54-63 Ancient temperatures</p> <p>Use of measures of ratio of oxygen isotopes in fossil shells of cores to determine water temperatures during the period when the animal was alive.</p> <p>GLK:sjh MF</p>	<p>Denton, E.J. & M.A. 580274 Walker (1958) <u>Proc.roy.Soc.</u> (B), 148:257-69 The visual pigment of the conger eel</p> <p>Description of new methods of studying spectral absorption of intact retina, and their application to <u>C. conger</u> L.</p> <p>FAO:sjh M</p>
<p>Hill, H.W. & A.J. Lee (1958) 580272 <u>Proc.roy.Soc.</u>, (B), 148:104-16 The effect of wind on water transport in the region of the Bear Island fishery</p> <p>Correlation established between volume transport of West Spitsbergen Current and strength of southerly wind component during preceding period. The underlying mechanism has been examined and it is suggested that fluctuations in the position of the Arctic Front cause changes in the strength of the current system of the Norwegian Sea. Association between southerly wind component and year-class strength of Bear Island cod is also shown.</p> <p>FAO:sjh M</p>	<p>North, W.J. & C.F.A. 580275 Pantin (1958) <u>Proc.roy.Soc.</u>(B), 148:385-96 Sensitivity to light in the sea-anemone <u>Metridium senile</u> (L): adaptation and action spectra</p> <p>Experiments to study response by local longitudinal contraction to light of various wavelengths; comparison of red, white and brown colored varieties of the sp.</p> <p>FAO:sjh M</p>
<p>Cronshaw, J. & R.D. 580273 Preston (1958) <u>Proc.roy.Soc.</u>(B), 148:137-48 A re-examination of the fine structure of the walls of vesicles of the green alga <u>Valonia</u></p> <p>Review of previous work, a description of new studies by X-ray analysis and electronmicroscopy, on <u>V. ventricosa</u> and other spp.</p> <p>FAO:sjh M</p>	<p>U.K. Ministry of Agriculture, 580276 Fisheries & Food (1958) <u>Lab.Leafl.</u>, Lowestoft, (18):3 p. The East Anglian herring season 1957</p> <p>Comparison of forecast made on basis of age analysis with the actual results and with data from experimental ocho-survey of <u>Clupea harengus</u>.</p> <p>SJH:sjh M</p>

Kietz, H. (1958) 580277
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Ein neuartiges Echoaufzeichnungs-
verfahren

(A new method of recording echo-
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Description of the new technical methods
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grams.

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Response of Chlorolla to a deuterium
environment

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Quantitative variations of the zoo-
plankton in Norwegian coastal and off-
shore waters during the years 1949-56

Extended report to the author's two
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area.

GLK:tl

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The fishery for sablefish, Anoplopoma
fimbria

Short ill. review of knowledge about
distribution and migration, races,
abundance, growth and reproduction;
markets, fishing gear used, history of
fishery along Pacific Coast of USA,
Canada and Alaska.

HR:sjh

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sodium fluoride. I. The sodium fluoride
induced carbon dioxide burst from
Chlorocella

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Continuation from earlier numbers.
Taxonomic description of the species
with illustrations.

GLK:tl

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<p>Serventy, D.L. (1958) 580283 <u>Fish. News Lett. Aust.</u>, 17(3):25 C.S.I.R.O. wants bands from mutton birds</p> <p>Notes on migration of sea birds, especially Tasmanian mutton-bird and notes on recoveries of banded mutton birds.</p> <p>GLK:tl M</p>	<p>Dietz, R.S. (1958) 580286 <u>New Scient.</u>, 3(74):30-2 Deep sea research in the bathyscaph TRIESTE</p> <p>Ill. description of the craft; account of tests with it in the Mediterranean (Tyrrhenian Sea); photographs of the sea bed showing a conger eel, mound of a burrowing organism, and ripple marks indicating occurrence of oscillatory currents even at 9,000 ft depth.</p> <p>FAO:sjh M</p>
<p>Anonymous (1958) 580284 <u>Fish. News Lett. Aust.</u>, 17(3):27 Queensland research on three fishes</p> <p>Brief summary of results of the Queensland research on sea mullet, school mackerel and tuna, extracted from the 1956-57 report by Queensland Chief Inspector of Fisheries.</p> <p>GLK:tl M</p>	<p>Anonymous (1958) 580287 <u>New Scient.</u>, 3(74):41 Fishes with electric fields</p> <p>Short account of and comment on work by H.W. Lissmann, published in <u>J. exp. Biol.</u>, 35(1) on the action and origin of electric organs in Mormyridae and Gymnotidae in African rivers.</p> <p>FAO:sjh F</p>
<p>Anonymous (1958) 580285 <u>New Scient.</u>, 3(74):13 Nylon defeats sea worms</p> <p>Short report of tests at Port Harcourt, Nigeria, of protection of wooden hulls from <u>Teredo</u> by a nylon film.</p> <p>FAO:sjh M</p>	<p>Schaefers, E.A. & D.E. 580288 Powell (1958) <u>Comm. Fish. Rev.</u>, 20(2):7-15 Correlation of midwater trawl catches with echo recordings in the North-eastern Pacific</p> <p>Identification of "Sea Scanner" traces by research vessel catching <u>Sebastes</u>, <u>Merluccius</u>, <u>Anoplopoma</u>, <u>Squalus</u>, <u>Pandalus</u> and <u>Atheresthes</u> spp.</p> <p>FAO:sjh M</p>

<p>Anonymous (1958) 580289 <u>Comm.Fish.Rev.</u>, 20(2):21-3 California - Airplane spotting flights study abundance and distribution of Pacific sardines and anchovies</p> <p>FAO M</p>	<p>Anonymous (1958) 580292 <u>Comm.Fish.Rev.</u>, 20(2):27-8 Great Lakes fishery investigations - Western basin of Lake Erie surveyed</p> <p>FAO F</p>
<p>Anonymous (1958) 580290 <u>Comm.Fish.Rev.</u>, 20(2):24 California - Investigations of abalone resources continued</p> <p>FAO M</p>	<p>Anonymous (1958) 580293 <u>Comm.Fish.Rev.</u>, 20(2):28-9 Gulf exploratory fishery program - Tuna and shrimp survey in eastern Caribbean and off northeast coast of South America</p> <p>FAO M</p>
<p>Anonymous (1958) 580291 <u>Comm.Fish.Rev.</u>, 20(2):24-5 California - Study of pre-season Dungeness crab population</p> <p>FAO M</p>	<p>Anonymous (1958) 580294 <u>Comm.Fish.Rev.</u>, 20(2):31 North Atlantic fisheries investigations - Haddock tagging and collections cruise</p> <p>FAO M</p>

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investigations - Survey of herring
larvae distribution and nontidal-drift
pattern

FAO

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Oregon - Revision of shrimp fishing
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FAO

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Pacific oceanic fishery investigations -
Stomach contents of skipjack tuna
studied for clues to catchability

FAO

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Largest introduction of Marquesan
sardines to Hawaiian waters

FAO

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Pacific oceanic fishery investigations -
International Geophysical Year stations
occupied and oceanographic and
biological data collected in Marshall
Islands area

FAO

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<p>Anonymous (1958) 580302 <u>Comm. Fish. Rev.</u>, 20(2):35-6 Pacific oceanic fishery investigations - Winter abundance and distribution of skipjack tuna in Hawaiian waters surveyed</p> <p>FAO M</p>	<p>Anonymous (1958) 580305 <u>Comm. Fish. Rev.</u>, 20(2):40-1 South Atlantic exploratory fishery program - Exploratory royal-red shrimp fishing cruise off Florida east coast completed</p> <p>FAO M</p>
<p>Anonymous (1958) 580303 <u>Comm. Fish. Rev.</u>, 20(2):37-8 Pacific oceanic fishery investigations - Marquesas Islands area surveyed for surface tuna schools and live bait</p> <p>FAO M</p>	<p>Anonymous (1958) 580306 <u>Comm. Fish. Rev.</u>, 20(2):41-2 Sponges - Research shows how to revitalize America's resource</p> <p>FAO M</p>

<p>Anonymous (1958) 580307 <u>Comm.Fish.Rev.</u>, 20(2):45 Virginia - Biologists find that croakers go south for winter</p> <p>FAO M</p>	<p>Carlander, K.D. (1958) 580310 <u>Iowa St.Coll.J.Sci.</u>, 32(3):395-417 Some simple mathematical models as aids in interpreting the effect of fishing</p> <p>Application to <u>Stizostedion vitreum</u> population of Clear Lake, Iowa, of a series of simple arithmetical models; comparison of predictions from these and general discussion of their usefulness.</p> <p>SJH:sjh MF</p>
<p>Van Campon, W.G. (1958) 580308 <u>Comm.Fish.Rev.</u>, 20(2):67-8 Tuna resources of the equatorial Atlantic</p> <p>English translation of 580309.</p> <p>FAO M</p>	<p>Oppedal, G. (1958) 580311 <u>Fiskeridir.Smaskr.</u>, (2):31 p. Vintersildfiskets lønnsomhet 1957</p> <p>(Rentability of winter herring fishery 1957) Summary of the effort (number of participants, boats and gear), catches by different gear, the running costs and the rentability of the fishery with different gear.</p> <p>FAO:tl M</p>
<p>Nagai, M. & A. Nakagome (1957) 580309 <u>Tuna Fish.</u>, (42):21-6 Tuna resources of the equatorial Atlantic. <u>Ni</u></p> <p>M</p>	<p>Taylor, C.C. (1958) 580312 <u>Fish.Bull., U.S.</u>, 58(126):1-7 Natural mortality rate of the Georges Bank haddock</p> <p>Catches per day for each age-group, and annual fishing effort for period 1932-51 are used to obtain upper limiting values of natural mortality rates in this stock.</p> <p>FiB:sjh M</p>

<p>Australia. Fisheries Division (1957) Canberra, 54 p. Australian fisheries statistics (excluding whaling and pearling statistics), 1951/52 - 1955/56</p> <p style="text-align: right;">580313</p> <p style="text-align: right;">MF</p>	<p>Canada. Dominion Bureau of Statistics (1957) Ottawa, 22 p. Fisheries statistics of Canada (Prince Edward Island), 1956. <u>En</u> <u>Fr</u></p> <p>Tables giving quantity & value of principal spp. of fish & shellfish in Prince Edward Island in 1949-56; quantity & value of landings by spp. & districts, 1955-56; quantity & value of manufactured fishery products by spp. & districts, 1955-56; capital equipment in the primary fisheries operations by districts, 1955-56; number of persons engaged in fisheries by districts, 1955-56.</p> <p style="text-align: right;">580316</p> <p style="text-align: right;">M</p>
<p>Canada. Dominion Bureau of Statistics (1957) Ottawa, 14 p. Fisheries statistics of Canada (British Columbia), 1956. <u>En</u> <u>Fr</u></p> <p>Tables giving quantity & value of principal spp. of fish & shellfish in British Columbia in 1949-56; quantity & value of landings by spp. & districts, 1955-56; quantity & value of manufactured fishery products by spp. & districts, 1955-56; capital equipment in the primary fisheries operations by districts, 1955-56; number of persons engaged in fisheries by districts, 1955-56.</p> <p style="text-align: right;">580314</p> <p style="text-align: right;">MF</p>	<p>Gulf States Marine Fisheries Commission (1957) New Orleans 16, 49 p. Gulf States Marine Fisheries Commission Eighth Annual Meeting (Meeting Minutes)</p> <p style="text-align: right;">580317</p> <p style="text-align: right;">M</p>
<p>Canada. Dominion Bureau of Statistics (1957) Ottawa, 73 p. Fisheries statistics of Canada (Quebec), 1955. <u>En</u> <u>Fr</u></p> <p>Tables giving quantity & value of principal spp. of fish & shellfish in Quebec in 1952-55; quantity & value of landings by spp. & districts, 1954-55; quantity & value of manufactured fishery products by spp. & districts, 1954-55; capital equipment in the primary fisheries operations by districts, 1954-55; number of persons engaged in fisheries by districts, 1954-55.</p> <p style="text-align: right;">580315</p> <p style="text-align: right;">MF</p>	<p>Food & Agriculture Organization of the United Nations (1957) Rome, Item 7(b) of the Provisional Agenda, C 57/30, 17 p. Expanded Technical Assistance Program (Report by the Director-General)</p> <p style="text-align: right;">580318</p> <p style="text-align: right;">FAO: MF</p>

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Rome, 171 p.
The state of food and agriculture

Includes review of world fisheries
situation.

FAO:sjh

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Idyll, C.P. (1957) 580322
Educ.Scr.Fla Bd Conserv., (6):30 p.
The commercial shrimp industry of
Florida

Revision of 1950 publication on biology
and fishery for Penacus setiferus, P.
brasilionsis, P. aztecus, P. duorarum
and Xyphoponacus kroyeri.

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Government Printer, Zomba, 18 p.
Annual report of the Department of Game,
Fish and Tsetse Control for the year
1956

The section on fisheries discusses the
state of the fish stocks, the non-
African fishery, the African fishery,
fish trade, developmental and
experimental work, fisheries research
organization, trout fishing, and fish
farming. Statistics are also given on
landings of the different species of fish.

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Economic Commission for Asia 580323
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E/CN.11/DPWP.3/L.9 (Limited), 14 p.
Fishery programmes in relation to
agricultural and economic planning

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Loger, L.A.St. (1957) 580321
Tasm.J.Agric., August 1957:275-7
A review of the scallop fishery

Presents the history of the scallop
fishery of Tasmania as well as the
present condition of the fishery and
predictions for its future.

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Ellis, R.W. (1957) 580324
Spec.Serv.Bull.Mar.Lab.Univ.Miami, (14):
6 p.
Catches of fish by charter boats on
Florida's east coast

Statistics of sampling survey. Numbers
and weights of each species per trip.

FAO:sjh

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<p>Tait, J.B. (1957) 580325 <u>Mar. Res.</u>, (2):309 p. Hydrography of the Faroe-Shetland Channel</p> <p>A monograph giving a detailed presentation of the vortical distribution of temperature and salinity along two roughly parallel cross-sections from the Faroe Islands to the Shetland Islands & from the Faroe Bank to the Butt of Lewis. Contains information about the different types of water that are encountered there & conclusions as to their origin & formation.</p> <p>FAO:wad M</p>	<p>Schoffeniels, E. (1958) 580328 <u>Nature, Lond.</u>, 181:287-8 A method for studying separately the properties of the innervated and non-innervated membrane of an isolated single electroplax of the skate</p> <p>Describes application of a method developed for <u>Electrophorus</u> to <u>Raja eglanteria</u>.</p> <p>GLK:wad M</p>
<p>Deacon, G.E.R. (1958) 580326 <u>Nature, Lond.</u>, 181:214-5 Hydrography of the Faroe-Shetland Channel</p> <p>Review of 580325.</p> <p>GLK M</p>	<p>Jacob, J. (1957) 580329 <u>Trans.roy.Soc.Edinb.</u>, 63, Part 2:341-52 Cytological studies of Melaniidae (Mollusca) with special reference to parthenogenesis and Polyploidy. I. Oögenesis of the parthenogenetic species of Melanoides (Prosobranchia-Gastropoda)</p> <p>M</p>
<p>Cox, I. (Ed.) (1957) 580327 <u>Shell Transport & Trading Company, Ltd., London</u>, 135 p. The scallop: studies of a shell and its influences on humankind</p> <p>Contains 8 chapters, profusely ill. in colour and each by a different author on different aspects of <u>Pecten</u>, its close relatives and their shells: cookery, heraldry and symbolism, history of the name "scallop", the shells in art and literature, and incl. paper on biology of this group by W.J. Roes (580711).</p> <p>GLK:sjh M</p>	<p>Moulton, J.L. (1957) 580330 <u>Breviora</u>, (80):4 p. A collection of drawings of fishes.</p> <p>MF</p>

<p>Kramp, P.L. (1957) 580331 <u>Rep.A.N.A.R.E.</u>, Ser. B, 1:6 p. Some jellyfish from Macquarie Island and Hoard Island</p> <p style="text-align: right;">M</p>	<p>Peterson, G.H. (1958) 580334 <u>Nature, Lond.</u>, 181:356-7 Distinction between <u>Cardium edule</u> L. and <u>Cardium lamarcki</u> Roove</p> <p>Describes differences in morphology and distribution of forms from Danish estuaries. Also discusses <u>C. exiguum</u>.</p> <p style="text-align: right;">GLK:wad MF</p>
<p>Brown, K.G. (1957) 580332 <u>Rep.A.N.A.R.E.</u>, (16):34 p. The leopard seal at Hoard Island</p> <p style="text-align: right;">M</p>	<p>Murthy, V.S.R. & A. 580335 Vonkataramaiah (1958) <u>Nature, Lond.</u>, 181:360-1 The diatom <u>Asterionella</u> in the Krishna Estuary Region</p> <p>Describes unusual planktonic bloom, mainly of <u>Asterionella</u>, causing discoloration of sea water in India.</p> <p style="text-align: right;">GLK:wad MF</p>
<p>Vendrely, R., A. Knobloch & 580333 H. Matsudaira (1958) <u>Nature, Lond.</u>, 181:343 A comparative biochemical study of nucleohistones from different vertebrates</p> <p>Study of nucleohistones of calf thymus and erythrocytes of carp, trout, pike, chick, frog, fowl and duck showed similarity of general composition.</p> <p style="text-align: right;">GLK:hr F</p>	<p>Fisher, R.A. & F. Yates (1957) 580336 <u>Oliver & Boyd, Ltd., Edinburgh & London;</u> 138 p. Statistical tables for biological, agricultural and medical research</p> <p>5th ed. of 1953 public. Tables extended to provide for logit, and loglog transformations.</p> <p style="text-align: right;">:sjh MF</p>

Schnoidor, E. & L.F. 580337
Whitney (1957)
Nelson, London, 550 p.
The complete guide to tropical fishes

The care, breeding and feeding of
tropical fish. Details of over 200
species. More than 300 photographs.

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Hurley, D.E. (1957) 580340
Zool. Publ. Vict. Univ. N.Z., (21):20 p.
Some Amphipoda, Isopoda and Tanaidacea
from Cook Strait

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Taylor, R.J. & A.J. Dyer (1958) 580338
Nature, Lond., 181:408-9
An instrument for measuring evaporation
from natural surfaces

A preliminary description of equipment
which permits the automatic, direct
determination of natural evaporation by
equating it to the vertical turbulent
flux of water vapour in the layers of
air near the ground or other surface.

GLK:wad

MF

Tait, J.B. (1958) 580341
Nature, Lond., 181:453-4
Prof. Bjørn Holland-Hansen

An obituary and short account of his
contribution to oceanography.

GLK:sjh

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Bacci, G. & A. Razzauti (1958) 580339
Nature, Lond., 181:432-3
Protogynous hermaphroditism in Coris
julis L.

C. giofredi Risso and C. julis L. found
to be the younger and older individuals
of the inter-sexual species of C. julis.

GLK:wad

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Reproduction of fused larvae in the
boring sponge, Cliona celata Grant

Reports successful metamorphosis of
compound larvae into simple sponges
under semi-natural conditions.

GLK:wad

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<p>Rao, C. Radhakrishna (1958) 580343 <u>Biometrics</u>, 14(1):1-17 Some statistical methods for comparison of growth curves</p> <p>Analysis of and significance tests for growth differences based on transformation of time-variable such that increase in the chosen quantity is proportional to transformed-time interval.</p> <p>FAO:sjh MF</p>	<p>Sprott, D.A. (1958) 580346 <u>Biometrics</u>, 14(1):97-106 The method of maximum likelihood applied to the Poisson binomial distribution</p> <p>Describes procedure, and compares with efficiencies of methods of moments and sample zero frequency.</p> <p>FAO:sjh MF</p>
<p>Bross, I.D.J. (1958) 580344 <u>Biometrics</u>, 14(1):18-38 How to use riddit analysis</p> <p>Describes principles and application of method of analysing cumulative empirical distributions, especially those based on ranking, analogous to probit and logit analysis, and applicable for example to quantification of results of behavioural studies.</p> <p>FAO:sjh MF</p>	<p>Harris, E.K. (1958) 580347 <u>Biometrics</u>, 14(1):136 On the probability of survival of bacteria in sea water</p> <p>Abstract of paper presented to 10th Ann. Meeting of Biometric Society (10-13/9/57) on experiments with <u>Salmonella</u> and coliform organisms.</p> <p>FAO:sjh M</p>
<p>Sukhatme, P.V., V.G. Panse & K.V.R. Sastry (1958) 580345 <u>Biometrics</u>, 14(1):78-96 Sampling technique for estimating the catch of sea fish in India</p> <p>Revised and expanded version of paper presented by first two authors to International Biometric Symposium Campinas, Brazil, 4-9/7/55 (1955, FAO, mimeo).</p> <p>FAO:sjh M</p>	<p>Bougis, P. & R. Mužinić (1958) 580348 <u>Acta adriat.</u>, 8(9):14 p. Sur la croissance de <u>Mullus barbatus</u> (L.) dans les eaux de Split</p> <p>(Growth of <u>Mullus barbatus</u> (L.) in the waters off Split). Ju Growth of the species at Split, Adriatic Sea is of the same order as in Banyuls, north of the Western Mediterranean. The young forms from the two places show, however, different growth patterns during the first winter. Definition of critical temperature in the biology of the species is given.</p> <p>GLK:hr M</p>

<p>Massmann, W.H. & A.L. 580349 Pachoco (1957) <u>J.Wildlife Mgmt</u>, 21:351-2 Shad catches and water temperatures in Virginia</p> <p>Relation between temperature and daily catches per unit effort of <u>Alosa sapidissima</u> in York River.</p> <p>GLK:sjh M</p>	<p>Haven, D. & J.D. Andrews (1957) 580352 <u>Proc.nat.Shellf.Ass.</u>, 47(1956):43-9 Survival and growth of <u>Venus mercenaria</u>, <u>Venus campechiensis</u>, and their hybrids in suspended trays and on natural bottoms</p> <p>Experiments conducted at Gloucester Point, Virginia, from 1954.</p> <p>GLK:sjh M</p>
<p>McHugh, J.L. & R.S. Bailey (1957) 580350 <u>Virginia J.Sci.</u>, 8(1):42-64 History of Virginia's commercial fisheries. Neglected historical records throw light on today's problems</p> <p>Analysis of statistics of catches and prices of fish, especially oysters, blue-crabs, croaker, trout, show importance of economic and social factors in development of industry and of orienting research in terms of these factors.</p> <p>GLK:sjh MF</p>	<p>Hargis, W.J., Jr. & al. (1957) 580353 <u>Proc.nat.Shellf.Ass.</u>, 47(1956):68-72 Some effects of high-frequency x-rays on the oyster drill <u>Urosalpinx cinerea</u></p> <p>Experiments with object of finding methods for controlling this oyster predator, show that it is rather tolerant of high doses, as are some other gastropods, and in any case more economic methods of irradiation would have to be sought in practice.</p> <p>GLK:sjh M</p>
<p>Andrews, J.D. & J.L. 580351 McHugh (1957) <u>Proc.nat.Shellf.Ass.</u>, 47(1956):3-17 The survival and growth of South Carolina seed oysters in Virginia waters</p> <p>Growth, mortality, yields, condition, resistance to fungus <u>Dermocystidium marinum</u>.</p> <p>GLK:sjh M</p>	<p>McHugh, J.L. (1957) 580354 <u>Proc.nat.Shellf.Ass.</u>, 47(1956):83-102 Trapping oyster drills in Virginia. III. The catch per trap in relation to condition of bait</p> <p>Experiments in the control of <u>Urosalpinx cinerea</u> and <u>Eupleura caudata</u>.</p> <p>GLK:sjh M</p>

Canada. Dominion Bureau of Statistics (1957) 580355
Ottawa, 34 p.
Fisheries statistics of Canada (Canada), 1954. En Fr

Yearly landings (quantities and values) by species, region, type of craft and gear; inventory and operations of equipment; employment, processing, trade, bounties paid.

FiB:sjh

MF

Atli, M. (1958) 580358
Balik Balıkçılık, 6(4):15-9
Balıklarımızı Taniyalım: Kolyoz - Uskumru

(How to distinguish a mackerel from a Spanish mackerel.)
Ill. notes on and key for Scombror colias and S. scombrus.

SJH:sjh

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Canada. Dominion Bureau of Statistics (1958) 580356
Ottawa, 59 p.
Fisheries statistics of Canada (New Brunswick), 1956. En Fr

Yearly landings (quantities and values) by species region, type of craft and gear; inventory and operations of equipment; employment, processing, trade, bounties paid.

FAO:sjh

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Üner, S. (1958) 580359
Balik Balıkçılık, 6(4):20-3
Çapari, Vapilişi ve Avlanma Usulü

(About hook and line)
Description of gears used to catch sardines, bonito, and horse-mackerel in the Bosphorus.

SJH:sjh

M

Artüz, I. (1958) 580357
Balik Balıkçılık, 6(4):1-12
Torik-Palamut ve Sarda sarda ların Mevsim ve Senelere Bağlı Av Poryotları

(Catching periods of Sarda sarda in different seasons and years)
Account of Turkish research on the species; prediction of seasonal catches.

SJH:sjh

M

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Balik Balıkçılık, 6(4):24-9
Boğaziçinde Tarihî Kiliç Balıkçılığı

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A fisherman's notes on this fishery a half-century ago.

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<p>Anonymous (1958) 580362 <u>Allg.FischwirtschaftZtg.</u>, 10(4):13-4 Die Weltfischerrei 1956</p> <p>(The world fisheries 1956) Review and summary from FAO Yearbook of Fishery Statistics.</p> <p>FAO:tl M</p>	<p>Hempel, G. (1958) 580365 <u>Allg.FischwirtschaftZtg.</u>, 10(10):15-6 Deutsche Meeresforschung im Internationalen Geophysikalischen Jahr</p> <p>(German oceanography in the International Geophysical Year) A review of the German oceanographic programme during IGY.</p> <p>FAO:tl M</p>
<p>Hempel, G. (1958) 580363 <u>Allg.FischwirtschaftZtg.</u>, 10(6):10-1 Forschungspläne der deutschen Fischereibiologen</p> <p>(The investigation plans of the German fisheries biologists) Popular review of the urgent problems for German fisheries biologists and the future plans for solving them.</p> <p>FAO:tl M</p>	<p>Schubert, K. (1958) 580366 <u>Allg.FischwirtschaftZtg.</u>, 10(13-14):14-8 Biologisch bedingte Qualitätsunterschiede beim Hering</p> <p>(The quality differences in herring, from biological causes) Notes on the quality of herring with different stage of maturity.</p> <p>FAO:tl M</p>

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<p>Southward, A.J. (1958) 580368 <u>Biol.Rev.</u>, 33:137-77 The zonation of plants and animals on rocky sea shores</p> <p>Review of the earlier studies on zonation; relation of zonation to tides and waves; examples of zonations in various regions and discussion of the causes of zonation.</p> <p>FAO:t1 M</p>	<p>Clows, J. (1958) 580371 <u>New Scient.</u>, 3(66):16-8 Holland's new polders</p> <p>Land reclamation projects; mentions relation to fisheries and navigation, and changes from saline to fresh water.</p> <p>FAO:sjh MF</p>
<p>Smith, A.U. (1958) 580369 <u>Biol.Rev.</u>, 33:197-253 The resistance of animals to cooling and freezing</p> <p>Includes notes on the present work on the viability of molluscs and fish after freezing and thawing and the lowest temperatures tolerated by these animals.</p> <p>FAO:t1 MF</p>	<p>Anonymous (1958) 580372 <u>New Scient.</u>, 3(66):32 Descents off Japan</p> <p>Briefly reports arrangements for French bathyscaphe to dive, during summer, 1958 to 3000 m. N. of Tokio.</p> <p>FAO:sjh M</p>

<p>Green, J.H.S. (1957) 580373 <u>Research, Lond.</u>, 10:374-8 De R6aumur</p> <p>Short biography includes mention of his studies on growth of mollusc shells and on locomotion of crayfishes and lobsters.</p>	<p>Woodcock, A.H. (1957) 580376 <u>Tellus</u>, 9:521-4 Atmospheric sea-salt nuclei data for Project Shower</p> <p>Extensive data on the distribution of sea-salt nuclei in Hawaii during the field activities of Project Shower. References to studies and digests of similar data from this region are given.</p>
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<p>FAO:sjh F</p>	<p>FAO:t1 M</p>
<p>Happold, F.C. (1957) 580375 <u>Research, Lond.</u>, 10:443-8 The biological treatment of effluents</p> <p>A review of principles and applications of bacterial oxidation of monohydric phenols, cyanide, thiocyanate, and other compounds.</p>	<p>Sufi, S.M.K. (1957) 580378 <u>Agric.Pakist.</u>, 8:208-29 Fish-fauna of the Kinjer Lake (West Pakistan) with an account of the major fishing implements employed by the local fishermen</p> <p>33 species belonging to 24 genera are listed with brief general notes.</p>
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<p>Jitts, H.R. (1957) 580381 <u>Rep.Div.Fish.Oceanogr.C.S.I.R.O.</u>, (8):12 p. The ¹⁴C method for measuring CO₂ uptake in marine productivity studies</p> <p>Description of the equipment and method, and discussion on the significance of CO₂ uptake measurements by the C¹⁴ method, made during the EQUAPAC project.</p> <p>FAO:tl M</p>	<p>Kendall, D.G. (1957) 580384 <u>J.R.statist.Soc.</u>, 19:207-12 Some problems in the theory of dams</p> <p>Derivation of two results quoted in 580383.</p> <p>FAO:sjh MF</p>

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GLK:sjh

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GLK:sjh

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(March, 1958). Lists references and some
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Cod, which was at the time unpublished.

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<p>Thurston, C.L. (1958) 580440 <u>Comm.Fish.Rev.</u>, 20(1):1-5 Sodium and potassium in the edible portions of 34 species of fish</p> <p>Describes method of analysis and tabulates results (% ash, K, and Na) for wide variety of marine and freshwater spp.</p> <p>HR:sjh MF</p>	<p>Anonymous (1958) 580443 <u>Comm.Fish.Rev.</u>, 20(1):32-3 Chesapeake Bay - Survey of resident and migratory fishes of Chesapeake Bay</p> <p>HR: MF</p>
<p>Anonymous (1958) 580441 <u>Comm.Fish.Rev.</u>, 20(1):29-30 California - Inshore area from Santa Cruz to Carmel surveyed for schools of young anchovies and sardines</p> <p>HR: M</p>	<p>Anonymous (1958) 580444 <u>Comm.Fish.Rev.</u>, 20(1):38-9 North Atlantic fisheries exploration and gear research - Exploratory tuna fishing with long-lines in western North Atlantic</p> <p>HR: M</p>

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<p>Anonymous (1958) 580446 <u>Comm.Fish.Rev.</u>, 20(1):40 North Atlantic fisheries investigations - Red hake samples collected and gear tested in Block Island</p> <p>HR M</p>	<p>Anonymous (1958) 580449 <u>Comm.Fish.Rev.</u>, 20(1):42 North Pacific exploratory fishery program - Third midwater trawling cruise completed</p> <p>HR: M</p>
<p>Anonymous (1958) 580447 <u>Comm.Fish.Rev.</u>, 20(1):40 North Atlantic fisheries investigations - Yellowtail flounders and industrial species sampled off Nauset Beach</p> <p>HR: M</p>	<p>Anonymous (1958) 580450 <u>Comm.Fish.Rev.</u>, 20(1):43 Oregon - Fisheries research laboratory established</p> <p>An Oregon Fish Commission fisheries research laboratory at La Grande, Ore.</p> <p>HR:sjh M</p>

<p>Anonymous (1958) 580451 <u>Comm. Fish. Rev.</u>, 20(1):43-4 Oregon - Review of 1957 salmon fisheries</p>	<p>Sanford, F.B. (1958) 580454 <u>Comm. Fish. Rev.</u>, 20(1):48-56 Pacific Coast fishing ports - Garibaldi, Ore.</p>
<p>HR MF</p> <p>Anonymous (1958) 580452 <u>Comm. Fish. Rev.</u>, 20(1):44 Oregon - Salmon counts at Willamette falls</p>	<p>HR: M</p> <p>Anonymous (1958) 580455 <u>Comm. Fish. Rev.</u>, 20(1):57 Pacific oceanic fishery investigations - Returns of tagged skipjack tuna exceed 8 percent</p>
<p>HR: MF</p> <p>Loosanoff, V.L. (1958) 580453 <u>Comm. Fish. Rev.</u>, 20(1):45-7 Oysters - New method for control of enemies with common salt</p>	<p>HR: M</p> <p>Anonymous (1958) 580456 <u>Comm. Fish. Rev.</u>, 20(1):57 Salmon - Alaska's Bristol Bay fishery to receive special attention</p>
<p>HR: M</p>	<p>HR: MF</p>

<p>Anonymous (1958) 580457 <u>Comm.Fish.Rev.</u>, 20(1):57-8 South Atlantic exploratory fishery program - Exploratory fishing for rock shrimp off Georgia and South Carolina</p> <p>HR: M</p>	<p>Anonymous (1958) 580460 <u>Comm.Fish.Rev.</u>, 20(1):69 Interest in developing shrimp fisheries of Latin America increasing</p> <p>HR: M</p>
<p>Anonymous (1958) 580458 <u>Comm.Fish.Rev.</u>, 20(1):59-60 Tuna - Biologists probe mysteries of albacore spawning</p> <p>HR: M</p>	<p>Anonymous (1958) 580461 <u>Comm.Fish.Rev.</u>, 20(1):69 Japanese fishing surveys off Brazil and Dominican Republic reveal tuna resources</p> <p>HR: M</p>
<p>Mc Hugh, J.L. (1958) 580459 <u>Comm.Fish.Rev.</u>, 20(1):64-6 Virginia - New fisheries research vessel PATHFINDER</p> <p>HR: M</p>	<p>Anonymous (1958) 580462 <u>Comm.Fish.Rev.</u>, 20(1):78 Canada - Rehabilitation of oyster beds in New Brunswick and Nova Scotia planned</p> <p>HR: M</p>

<p>Anonymous (1958) 580463 <u>Comm.Fish.Rev.</u>, 20(1):88-9 Japan - Tuna fishing in Marquesas area</p> <p>HR: M</p>	<p>Anonymous (1958) 580466 <u>Comm.Fish.Rev.</u>, 20(3):13-4 California - Establishing silver salmon run in Sacramento River shows promise</p> <p>FAO: MF</p>
<p>Anonymous (1958) 580464 <u>Comm.Fish.Rev.</u>, 20(1):90-2 Mexico - Mexico shrimp industry</p> <p>HR: M</p>	<p>Anonymous (1958) 580467 <u>Comm.Fish.Rev.</u>, 20(3):14-6 California - Oyster industry revived</p> <p>FAO: M</p>
<p>Anonymous (1958) 580465 <u>Comm.Fish.Rev.</u>, 20(1):93 Norway - Gas harpoon tried out on whales</p> <p>HR: M</p>	<p>Anonymous (1958) 580468 <u>Comm.Fish.Rev.</u>, 20(3):16-7 Chesapeake Bay - Virginia-Maryland biologists seek young croakers</p> <p>FAO: M</p>

<p>Anonymous (1958) 580469 <u>Comm. Fish. Rev.</u>, 20(3):18-21 Fish and Wildlife Service - Annual report lists accomplishments</p> <p>FAO: MF</p>	<p>Anonymous (1958) 580472 <u>Comm. Fish. Rev.</u>, 20(3):24 Maryland - Oyster set in 1957 spotty</p> <p>FAO: M</p>
<p>Anonymous (1958) 580470 <u>Comm. Fish. Rev.</u>, 20(3):21-2 Great Lakes - Problems of controlling fresh-water fish populations discussed</p> <p>FAO: F</p>	<p>Anonymous (1958) 580473 <u>Comm. Fish. Rev.</u>, 20(3):25 Mollusks - Pink discoloration of oysters and clams studied</p> <p>FAO: M</p>
<p>Anonymous (1958) 580471 <u>Comm. Fish. Rev.</u>, 20(3):22-3 Great Lakes fishery investigations - Survey of fish populations in Lake Eric completed for 1957</p> <p>FAO: F</p>	<p>Anonymous (1958) 580474 <u>Comm. Fish. Rev.</u>, 20(3):25-6 North Atlantic fisheries investigations Yellowtail founder samples collected</p> <p>FAO: M</p>

Anonymous (1958) 580475
Comm.Fish.Rev., 20(3):26
Pacific oceanic fishery investigations -
Rearing of Tilapia for live bait shows
promise

FAO: MF

Anonymous (1958) 580478
Comm.Fish.Rev., 20(3):27-8
South Atlantic and gulf fisheries
investigations - Factors affecting the
abundance of shrimp and blue crab studied

FAO: M

Anonymous (1958) 580476
Comm.Fish.Rev., 20(3):26
Pacific oceanic fishery investigations -
Recoveries of tagged skipjack tuna in
1957

FAO: M

Anonymous (1958) 580479
Comm.Fish.Rev., 20(3):28-9
South Carolina - Fisheries biological
research progress, September-December,
1957

FAO: M

Anonymous (1958) 580477
Comm.Fish.Rev., 20(3):26-7
South Atlantic exploratory fishery
program - Trawling speeds tracked by
radar

FAO: M

Anonymous (1958) 580480
Comm.Fish.Rev., 20(3):29-31
Saltonstall-Kennedy Act Fisheries
Projects - Fishery projects for 1957

FAO: MF

<p>Anonymous (1958) 580481 <u>Comm.Fish.Rev.</u>, 20(3):35-6 Virginia - Leased oyster grounds more productive</p> <p>FAO: M</p>	<p>Anonymous (1958) 580484 <u>Comm.Fish.Rev.</u>, 20(3):43-4 Canada - Two subspecies of Ocean perch found off Newfoundland area</p> <p>FAO: M</p>
<p>Anonymous (1958) 580482 <u>Comm.Fish.Rev.</u>, 20(3):36 Virginia - Reproductive rate of oyster drills lower in 1957</p> <p>FAO: M</p>	<p>Anonymous (1958) 580485 <u>Comm.Fish.Rev.</u>, 20(3):48-9 Japan - New electronic fish-finder successful</p> <p>FAO: M</p>
<p>Anonymous (1958) 580483 <u>Comm.Fish.Rev.</u>, 20(3):42-3 Canada - Fisheries research during 1957 reviewed</p> <p>FAO: MF</p>	<p>Anonymous (1958) 580486 <u>Comm.Fish.Rev.</u>, 20(3):54-5 Surinam - Fisheries suffer from unusual climatic conditions</p> <p>FAO: M</p>

<p>Anonymous (1957) 580487 <u>Busin. Week, December 1957:72-6</u> <u>Pearls prove a gem for Japan</u></p> <p>Pearl industry is described from its beginning about 65 years ago.</p> <p>:sjh M</p>	<p>U.S. Government (1957) 580490 <u>Senate Document No. 14, 85th Congress,</u> <u>1st Session, 429 p.</u> <u>Land and water resources of the New</u> <u>England-New York region</u></p> <p>F</p>
<p>Kenya, Ministry of Forest Development (1957) 580488 <u>Nairobi, 18 p.</u> <u>Report on Kenya fisheries, 1956</u></p> <p>Reports on work at a tilapia culture farm and at a trout hatchery, and developments in the trout fisheries. A section on the marine fishing industry covers: general developments in progress, trade, exploratory work, demand, and fishery legislation; exploratory and experimental work on fishing gear and methods; sociological aspects of the industry; game fishing; and notable game fish catches made in 1956.</p> <p>:sjh MF</p>	<p>Shaikhmahmud, F. & N.G. 580491 Magar (1957) <u>J.sci.industr.Res., 16A:44-6</u> <u>Studies in the nutritive value of</u> <u>Bombay prawns - I. Chemical composition</u> <u>of prawns</u></p> <p>MF</p>
<p>Waldo, E. (1957) 580489 <u>Louisiana Conserv., 9(10):2-5</u> <u>The Louisiana oyster story</u></p> <p>Describes briefly the life history of the oyster, the various stages of its growth, the many enemies of the oyster, and cause of oyster mortalities.</p> <p>:sjh M</p>	<p>Boars Bluff Laboratories (1957) 580492 <u>Rep.S.C.Wildl.Res.Dep., July 1956-June 57</u> <u>Annual report 1956-1957</u></p> <p>M</p>

<p>Noble, J.W. (1957) 580493 <u>Saturday Evening Post</u>, 230(24):36-7, 49-50 Giant killers of the California coast.</p> <p>First-hand account of humpback whaling operations in the Monterey-Farallon Grounds off San Francisco.</p> <p>:sjh M</p>	<p>Temma, T. (1957) 580496 <u>Bull.nat.Inst.agric.Sci., Japan</u>, Ser. H, (21):1-45 Study on the fisheries husbandry management. <u>Ni</u> En</p> <p>Analysis of statistical data referring to production, incomes etc. of three farming herring-fishing communities of Japan Sea coast of Hokkaido. General conclusions regarding socio-economics of part-time fishing.</p> <p>FAO:sjh MF</p>
<p>Anonymous (1957) 580494 <u>Busin.Week</u>, (1474):100-1, 103-4, 106-7 The whalers are sailing again</p> <p>Describes the old and new techniques of catching and processing whales.</p> <p>:sjh M</p>	<p>Enomoto, Y. (1957) 580497 <u>Bull.Seikai reg.Fish.Res.Lab.</u>, (11):2-9 Studies on plankton in the west coast of Kyushu. I. On the seasonal successions of phytoplankton and zooplankton chiefly in 1954</p> <p>A study of displacement volume, chlorophyll quantity, copepod number, <u>Noctiluca</u> number, and dominant species.</p> <p>FAO:hr M</p>
<p>Satyanarayana, T.S.Rao (1957) 580495 <u>Proc.nat.Inst.Sci.India</u>, 23B:165-81 Studies on the penetration of light in the Bay of Bengal. Part I. Transparency of the waters on the east coast of India and its significance</p> <p>Analysis of 158 Secchi disc readings, Oct. 1952 - April 1953, from Madras to Swatch of No Ground. Seasonal changes in extinction coefficient; identification of water masses by their transparency; comparisons with hydrophotometer observations.</p> <p>FAO:sjh M</p>	<p>Kibesaki, O. (1957) 580498 <u>Bull.Seikai reg.Fish.Res.Lab.</u>, (11):11-29 Studies on the resources of black croaker (<u>Argyrosomus nibe</u>) in the east China Sea. I. Analytical results of the catch statistics and the biological considerations. <u>Ni</u> En</p> <p>Contribution to knowledge of catches, fishing grounds & seasons, seasonal distributions & migrations, seasons & localities of recruitment, seasonal changes of population and influences on catches of the sp.</p> <p>FAO:hr M</p>

Kibesaki, O. & H. Mako (1957) 580499
Bull. Soikai reg. Fish. Res. Lab., (11):31-43
Studies on the resources of black
croaker (Argyrosomus nibe) in the east
China sea. II. On the growth of young
fish. Ni En

Contribution to knowledge of the age and
growth of the young of the sp.

FAO:hr

M

Nonaka, H. & N. Hanabuchi (1957) 580502
Bull. Soikai reg. Fish. Res. Lab., (11):69-80
The fisheries biology of Muraenesox. III.
On the morphology of the conger eel
(Muraenesox cinereus). Ni En

Examination of morphological differences
between the sexes of the sp. and between
southern and northern fishing regions
showed sexual but no regional differences.

FAO:hr

M

Yamashita, H. (1957) 580500
Bull. Soikai reg. Fish. Res. Lab., (11):45-53
Relations of the foods of sardine, jack
mackerel, mackerel, and so on, in the
waters adjacent to west Kyushu. Ni En

Study of possible competition in fish
communities by analysis of food remains
in digestive ducts of Sardina melano-
sticta, Engraulis japonica, Strumcus
micropus, Trachurus japonicus,
Decapterus muroadsi, and Scomber
japonicus.

FAO:hr

M

Nonaka, H. & N. Hanabuchi (1957) 580503
Bull. Soikai reg. Fish. Res. Lab., (11):81-7
The fisheries biology of Muraenesox. IV.
On the reproduction of the conger eel
(Muraenesox cinereus). Ni En

FAO:hr

M

Yamashita, H. (1957) 580501
Bull. Soikai reg. Fish. Res. Lab., (11):55-68
On the relation between the food and the
shape of the intestines of sardine, jack
mackerel, mackerel and their kindred
species found in the west coast of
Kyushu. Ni En

Illustrates relation between the food and
shape of intestines of Sardina melano-
sticta, Engraulis japonicus, Strumcus
micropus, Trachurus japonicus, Decapterus
muroadsi and Scomber japonicus.

FAO:hr

M

Shindo, S. (1957) 580504
Bull. Soikai reg. Fish. Res. Lab., (11):89-106
Seasonal and annual successions of the
demersal fish communities, observed from
the catch of Japanese otter trawl in the
east China and the Yellow Seas, during
from 1947 to 1954. Ni En

Study of fluctuation of catch per haul
in 6 localities; indicates fluctuations
in each and every locality. Only a few
spp. (T. haumela), (P. manchurica) etc.
increased in their unit catch, the others
decreased.

FAO:hr

M

<p>Asia Kyokai (1957) 580505 <u>Obun Printing Co., Tokyo, 253 p.</u> <u>Japanese fisheries. Their development and present status</u></p> <p>A manual summarising all aspects of the fisheries resources, fishing craft, gear and methods culture, handling and processing of yield, marketing and transportation, trade, administration research, education, and finance.</p> <p>FiB:sjh MF</p>	<p>Ritchie, D. (1957) 580508 <u>Amer.J.Bot., 44:870-4</u> <u>Salinity optima for marine fungi affected by temperature</u></p> <p>Determination of the temperature of optimum growth and the growth rates at various other temperatures and the influence of salinity on the growth rate by species of marine fungi <u>Phoma</u> and <u>Pestalotia</u>.</p> <p>FAO:tl M</p>
<p>Davis, W.S. (1957) 580506 <u>Res.Rep.U.S.Fish.Serv., (49):5 p.</u> <u>Ova production of American shad in Atlantic coast rivers</u></p> <p>Fecundity of 5 specimens of <u>Alosa sapidissima</u> from each of 6 rivers. Methods used, statistical evaluation of results and of their reliability for estimating total egg production.</p> <p>FAO:sjh MF</p>	<p>Johnson, T.W., Jr. (1957) 580509 <u>Amer.J.Bot., 44:875-8</u> <u>Resting spore development in the marine phycomycete <u>Anisulpidium ectocarpii</u></u></p> <p>Description of the development of the spore and influence of some environmental factors on this development.</p> <p>FAO:tl M</p>
<p>Cowper, T.R. & R.J. Downie (1957) 580507 <u>Rep.Div.Fish.Oceanogr.C.S.I.R.O., (6):19 p.</u> <u>A line-fishing survey of the fishes of the south-eastern Australian continental slope</u></p> <p>Methods and results of conventional long-lining and droplining, and of fish location; list of stations, spp. and their bathymetric range; comparison of economic and technical efficiencies of gears; potential commercial uses and value of catches.</p> <p>FAO:sjh M</p>	<p>Aasen, O. (1957) 580510 <u>Rapp.Cons.Explor.Mer, 143(1):5</u> <u>Introduction</u></p> <p>Introduction to volume of papers contributed to symposium on <u>Clupea harengus</u> (see Aasen & Jones, Zijlstra, Parrish & Craig, Glover, Craig, Cushing & Burd, Schubert & Gilis).</p> <p>FAO:sjh M</p>

<p>Aasen, O. & F.R. Jones (1957) 580511 <u>Rapp.Cons.Explor.Mer</u>, 143 (1):6-8 Summary of proceedings</p> <p>Summary of proceedings of symposium on <u>Clupea harengus</u> (Soc N° 580510).</p> <p>FAO:sjh M</p>	<p>Glover, R.S. (1957) 580514 <u>Rapp.Cons.Explor.Mer</u>, 143(1):22-4 The environment: the evidence of the plankton</p> <p>Appendix to Parrish & Craig (N° 580513), describing <u>Calanus</u> and <u>Clione</u> catches by plankton indicator, and being a summary of Glover, 1957 (580515).</p> <p>FAO:sjh M</p>
<p>Zijlstra, J.J. (1957) 580512 <u>Rapp.Cons.Explor.Mer</u>, 143 (1):9-11 The catch per unit of effort of the Dutch drift-net fisheries in different regions of the North Sea in the period 1947-1956</p> <p>Summary and general analysis of the commercial statistics of <u>Clupea harengus</u>.</p> <p>FAO:sjh M</p>	<p>Glover, R.S. (1957) 580515 <u>Bull.Mar.Ecol.</u>, 5(39):42 p. An ecological survey of the drift-net herring fishery off the north-east coast of Scotland. Pt. II. The planktonic environment of the herring</p> <p>Gives account of history of project, methods of collection, analysis, and treatment of material; seasonal fluctuations of listed spp. and groups; long-term trends; spatial distribution of plankton; fishery fluctuations; with detailed discussions of implications and consequences of this work.</p> <p>SJH:sjh M</p>
<p>Parrish, B.B. & R.E. Craig (1957) 580513 <u>Rapp.Cons.Explor.Mer</u>, 143 (1):12-21 Recent changes in the North Sea herring fisheries</p> <p>Study of catch and effort statistics and size and age compositions of <u>Clupea harengus</u>. Mortality rates and their significance in interpreting history and state of the fishery.</p> <p>FAO:sjh M</p>	<p>Craig, R.E. (1957) 580516 <u>Rapp.Cons.Explor.Mer</u>, 143 (1):25 Recent hydrographic changes in the north-western North Sea</p> <p>Appendix to Parrish & Craig (N° 580513) being a short note on interpretation of relevant temperature and salinity observations.</p> <p>FAO:sjh M</p>

<p>Cushing, D.H. & A.C. Burd (1957) 580517 <u>Rapp.Cons.Explor.Mer.</u>, 143(1):26-8 On the herring of the southern North Sea</p> <p>A summary of paper by same authors (1957) in <u>Fish.Invest.Lond.</u>, 20(11).</p> <p>FAO:sjh M</p>	<p>Gdynia. Morski Instytut 580520 Rybacki (1957) <u>Warszawa</u> Fishing atlas of the North Sea. <u>Pl En Ru</u></p> <p>Contains multicolour charts and extensive explanations on bathymetry, currents, temperatures, sediments, fishing grounds and seasons for important species and monthly operative indicator maps for trawler and lugger catches.</p> <p>FAO:tl M</p>
<p>Schubert, K. (1957) 580518 <u>Rapp.Cons.Explor.Mer.</u>, 143(1):29-33 The German herring fisheries in the North Sea and the biological conditions of the Bank herring stock</p> <p>Landings and catch per unit effort of <u>Clupea harengus</u> in 1955, by different types of vessels and earlier years; biological condition of Bank stock (maturity, vertebral no., age-composition, relation to oceanographic factors).</p> <p>FAO:sjh M</p>	<p>Flössel, O. (1957) 580521 <u>Gewässer u. Abwässer</u>, 15/16:26-36 Unterwasserantriebs-, Transport- und Mehrzweckgerät JONAS</p> <p>(Underwater propulsion- transport- and multi purpose device JONAS) Description of an underwater scooter and its possible use.</p> <p>FAO:tl M</p>
<p>Gilis, Ch. (1957) 580519 <u>Rapp.Cons.Explor.Mer.</u>, 143(1):34-42 Evolution dans le temps et dans l'espace de la composition des concentrations de harengs exploitées par les pêcheurs belges dans la Mer du Nord au cours de la période 1951-1955</p> <p>(Changes with temperature and place in the composition of herring concentrations exploited by Belgian fishermen in the North Sea during the period 1951-1955) Monthly statistics of vertebral number, age composition, maturity stage of <u>Clupea harengus</u> catches in different regions & at different seasons; daily catches per unit effort.</p> <p>FAO:sjh M</p>	<p>Schmidt-Rios, H. (1957) 580522 <u>Gewässer u. Abwässer</u>, 15/16:37-108 Über Veränderungen im Stoffhaushalt von Fliessgewässern: Loisach</p> <p>(On the changes of the content of particulate and dissolved matter of running waters: River Loisach) Investigation on the seasonal changes of the content of suspended and dissolved substances in the river and discussion on the factors affecting the changes.</p> <p>FAO:tl F</p>

<p>Tolbert, N.E. (1957) 580523 <u>Publ.Amer.Ass.Advanc.Sci.</u>, (49):97-110 Photosynthesis</p> <p>Use of radioactive tracers in study of this process, with reference to work on <u>Chlorella</u>.</p> <p>FiB:sjh F</p>	<p>Nomoto, T. (1957) 580526 <u>Sci.Rep.Whales Res.Inst.,Tokyo</u>, (12):33-89 Foods of baloon whales in the northern Pacific</p> <p>A summary description of the relation of whales and their food mainly based on samples.</p> <p>FAO:hr M</p>
<p>Omura, H. (1957) 580524 <u>Sci.Rep.Whales Res.Inst.,Tokyo</u>, (12):1-21 Osteological study of the little piked whale from the coast of Japan</p> <p>Based on an osteological study, <u>Balaenoptera davidsoni</u> and <u>B. acuto-rostrata</u> are considered conspecific and the name of the first a synonym of <u>acuto-rostrata</u>.</p> <p>FAO:hr M</p>	<p>Nasu, K. (1957) 580527 <u>Sci.Rep.Whales Res.Inst.,Tokyo</u>, (12):91-101 Oceanographic conditions of the whaling grounds in the waters adjacent to Aloutian Islands and the Bering Sea in summer of 1955</p> <p>Summarizes the results of oceanographic investigations.</p> <p>FAO:hr M</p>
<p>Nishiwaki, M. (1957) 580525 <u>Sci.Rep.Whales Res.Inst.,Tokyo</u>, (12):23-32 Age characteristics of ear plugs of whales</p> <p>A comparative study of the use of ear plugs for age determination with other methods practised with recommendation for its use.</p> <p>FAO:hr M</p>	<p>Kimura, S. (1957) 580528 <u>Sci.Rep.Whales Res.Inst.,Tokyo</u>, (12):103-25 The twinning in southern fin whales</p> <p>Considers frequency and growth of twins, differentiation of mono- and dizygotic twins, and twins and their mother's age.</p> <p>FAO:hr M</p>

<p>Ichihara, T. (1957) 580529 <u>Sci.Rep.Whales Res.Inst.,Tokyo, (12):127-89</u> An application of linear discriminant function to external measurements of fin whale</p> <p>A statistical demonstration of differences in shape of fin whales between two areas of the North Pacific. Fin whales have longer heads and shorter tails in area A than in area B.</p> <p>FAO:hr M</p>	<p>Abe, T. (1957) 580532 <u>Sci.Rep.Whales Res.Inst.,Tokyo, (12):225-33</u> Notes on fishes from the stomachs of whales taken in the Antarctic. I. <u>Xenocyttus nemotoi</u>, a new genus and new species of zoomorph fish of the subfamily <u>Orcosominae</u> Goode and Bean, 1895</p> <p>Describes the genus and species.</p> <p>FAO:hr M</p>
<p>Nishiwaki, M. (1957) 580530 <u>Sci.Rep.Whales Res.Inst.,Tokyo, (12):193-5</u> One-eyed monster of fin whale</p> <p>FAO: M</p>	<p>Collignon, M.J., M. Rossignol & Ch. Roux (1957) 580533 <u>Paris, Office de la Recherche scientifique & technique Outre-Mer, 369 p</u> Mollusques, crustacés, poissons marins des côtes d'A.E.F. en collection au centre d'océanographie de l'Institut d'Etudes contrafricaines de Pointe-Noire</p> <p>(Molluscs, crustaceans and marine fishes of the coasts of French Equatorial Africa in the collection of the oceanographic Centre of the Institute of Central African Studies of Pointe-Noire) 3 sections listing marine testacean molluscs, crustacean decapods and fishes. Notes on geographic distribution, methods of capture, abundance and habits,</p>
<p>Ogawa, T. & T. Kamiya (1957) 580531 <u>Sci.Rep.Whales Res.Inst.,Tokyo, (12):197-208</u> A case of the cachalot with protruded rudimentary hind limbs</p> <p>FAO: M</p>	<p>580533 (Card 2) and keys for the determination of the spp.</p> <p>FiB:hr M</p>

<p>Yamamoto, T. (1958) 580535 <u>Tokyo, 1958</u> Methods of sampling survey of fish catch</p> <p>A general text book dealing with basic sampling theory, its application to fishery statistics, details of methods for simple and ratio estimates, conversion of catch volume into weight; history, present status, and means of improvement of catch statistics; bibliography, formulae, tables of random numbers, square roots, and charts relating number of samples to accuracy of estimates.</p> <p>GLK:sjh MF</p>	<p>Institut Français d'Océanie (1958) 580538 <u>Rapp. Croisière Inst. franç. Océanie, (1)</u> 17 p. ORSOM III - Compte-rendu des croisières du deuxième semestre 1957</p> <p>(ORSOM III- Account of the cruises during the second semester of 1957) Reports on trolling long-lining and trawling operations, whale marking and on hydrographic and plankton observations.</p> <p>GLK:hr M</p>
<p>Chapman, D.W. (1958) 580536 <u>J. Wildlife Mgmt, 22:123-34</u> Studies on the life history of Alsea river steelhead</p> <p>Growth, movements, spawning of <u>Salmo gairdneri g.</u> trapped in this Oregon river, 1951-6.</p> <p>FAO:sjh MF</p>	<p>Haslett, A.W. (1958) 580539 <u>Sci. News, Harmondsworth, (47):122-3</u> Research report - Laboratoire dauphinois d'hydraulique</p> <p>Reviews history of this laboratory at Grenoble, with account of work being done there with models of rivers, estuaries, and sea harbours; ocean swell and interaction with sea beds; currents, coastal erosion; oil drilling; break-water construction.</p> <p>GLK:sjh MF</p>
<p>Jellison, W.L. & K.C. 580537 Milner (1958) <u>J. Wildlife Mgmt, 22:199-200</u> Salmonellosis (bacillary dysentery) of fur seals</p> <p><u>S. enteritidis</u> isolated from blood and viscera of 5 out of 12 sick pups of <u>Callorhinus ursinus</u>, Pribilof Is., summer 1951, and may be a cause of mortality. Seal lice also infected.</p> <p>FAO:sjh M</p>	<p>Scheidogger, A.E. (1958) 580540 <u>Springer-Verlag, Berlin, 280 p.</u> Principles of geodynamics</p> <p>A comprehensive monograph incl. a section dealing with the evolution of the oceans, and continental drift. The section on the effects of the earth's rotation incl. discussion of tidal and Coriolis forces.</p> <p>:sjh M</p>

<p>Union G�od�sique & G�ophysique 580541 Internationale (1958) <u>Paris, p. 33-64</u> Chronique de l'U.G.G.I. no. 10</p> <p>(I.U.G.G. Chronicle no. 10) Contains among others, plans for publication of IGY oceanographic data, report on the meeting of International Advisory Committee on Marine Sciences (UNESCO), abstracts of papers on geophysics presented at the UNESCO International Conference on Radio-Isotopes in Scientific Research, and notes on Japanese IGY oceanographic operations.</p> <p>GLK:tl MF</p>	<p>International Oceanographic 580544 Foundation (1958) <u>Sea Secrets, 2(3)</u></p> <p>Answers to various biological and other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.</p> <p>FiB:sjh M</p>
<p>International Oceanographic 580542 Foundation (1958) <u>Sea Secrets, 2(1)</u></p> <p>Answers to various biological and other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.</p> <p>FiB:sjh M</p>	<p>Western Australia. Fisheries 580545 Department (1958) <u>Monthly Service Bulletin, 7(4):39-48</u></p> <p>Notes on staff and their activities; issuance of fishing licences, regulations and legal actions; seasons and results of crayfishery, pearling, humpback whaling. Miscellaneous information from abroad.</p> <p>GLK:sjh M</p>
<p>International Oceanographic 580543 Foundation (1958) <u>Sea Secrets, 2(2)</u></p> <p>Answers to various biological and other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.</p> <p>FiB:sjh M</p>	<p>Mu�ini�, R. (1958) 580546 <u>Bilje�ke, Split, (13):3 p.</u> Preliminarna opa�anja o broju nematoda kod �njura, <u>Trachurus trachurus</u> L.</p> <p>(Preliminary observations on the numbers of nematodes in horse mackerel, <u>Trachurus trachurus</u> L.). En Notes on the intensity of infestation of horse mackerel in the central Adriatic with nematodes (<u>Anisakis</u> sp.).</p> <p>GLK:tl M</p>

<p>Food & Agriculture Organization 580547 of the United Nations (1958) FAO/58/1/575, (mimeo), 73 p. Operation of hydraulic reclamation systems</p> <p>Summaries and extracts from selected chapters of original with same title by Sharov, I.A. (1952). Discusses development of irrigation; technical operation, planning and management of water use; effect of irrigation and crop on air temperature and relative humidity; moisture capacity of soils; control of water logging, salinization and vegetation.</p> <p>FiB:tjj F</p>	<p>Fryor, G. (1958) 580550 <u>Nature, Lond.</u>, 181:1011-2 Occurrence of spermatophores in the genus <u>Dolops</u> (Crustacea:Branchiura)</p> <p>Announcement of their discovery in Branchiura based on examination of <u>D. ranarum</u> from Africa and <u>D. geayi</u> from South America.</p> <p>GLK:wad F</p>
<p>Morico, P.B. (1958) 580548 <u>Nature, Lond.</u>, 181:944-6 The tidal model at the University of Southampton</p> <p>Description of the purpose of the model and its construction.</p> <p>GLK:tl M</p>	<p>Munz, F.W. (1958) 580551 <u>Nature, Lond.</u>, 181:1012-3 Retinal pigments of a labrid fish</p> <p>Describes analysis of <u>Pimelometopon pulchrum</u> of the Pacific and compares them with those from other labrid fishes.</p> <p>GLK:wad M</p>
<p>Carlisle, D.B. & L.G. 580549 Hummerstone (1958) <u>Nature, Lond.</u>, 181:1002-3 Niobium in sea-water</p> <p>Describes methods of detection.</p> <p>GLK:wad M</p>	<p>Aboul-Ela, I.A. (1958) 580552 <u>Nature, Lond.</u>, 181:1013 Effects of ultra-violet radiation on oysters</p> <p>Describes experiments on eggs of <u>Crassostrea angulata</u>, the larvae of <u>Ostrea edulis</u> and the adults of both and suggests practical applications.</p> <p>GLK:wad M</p>

Hodgkin, E.P. & J.A.L. 580553
 Watson (1958)
Nature, Lond., 181:1015-6
 Breeding of dragonflies in temporary waters

Rearing experiments and observations on Odonata in Australia.

GLK:wad F

Bjorkan, P. (1957) 580556
Fiskeridir, Skr. Havundersøk., 11(10)
 Notes on the Greenland shark
Acanthorhinus carcharias (Gunn). I. The reproduction problem of the Greenland shark.

M

Krishnaswamy, S. & L.T. 580554
 Jones (1958)
Nature, Lond., 181:1016-7
 Occurrence of Donsiella limnoriae Stephenson (Copepoda, Harpacticoida) in the Southampton area

Describes what is believed to be the second record of the species occurrence.

GLK:wad M

Koofod, E. (1957) 580557
Fiskeridir, Skr. Havundersøk., 11(10)
 Notes on the Greenland shark
Acanthorhinus carcharias (Gunn). II. A uterine foetus and the uterus from a Greenland shark


M

Gorham, E. (1958) 580555
Phil. Trans., 241(679):147-78
 The influence and importance of daily weather conditions in the supply of chloride, sulphate and other ions to fresh waters from atmospheric precipitation

F

Van Riel, P.M., P. Groen & M.P.H. Weenink (1957) 580558
Oceanogr. Res. Snellus Exped., 2, Pt. 7:45 p.
 Quantitative data concerning the statics of the east-Indonesian waters, depths of standard pressures and stability values.

M

<p>Bybelin, O. (1957) 580559 <u>Rep. Swed. Deep-Sea Exped.</u>, 2(20):249-346 Deep-Sea bottom fishes</p>  <p>M</p>	<p>Inland Fisheries Trust 580562 Incorporated (1958) Dublin, 33 p. Secretary's report</p> <p>Secretaries report, accounts, notes on activities of hatcheries and investigations of trout, salmon, pike and perch in Irish waters. Notes also on coarse fisheries and sea-angling.</p> <p>FiB:sjh MF</p>
<p>Broch, H. (1957) 580560 <u>Rep. Swed. Deep-Sea Exped.</u>, 2(21):347-64 Pannatularians (<u>Umbellula</u>)</p> <p>M</p>	<p>Tinkle, D.W. (1958) 580563 <u>Tulane Stud. Zool.</u>, 6(1):56 p. The systematics and ecology of the <u>Sternothacrus carinatus</u> complex (Testudinata, Chelydridae)</p> <p>Contains: taxonomic consideration of species, variation, key to species of <u>Sternothacrus</u>, comparative skull osteology, speciation and phylogeny, patterns of speciation in Gulf coast turtles, comparative ecology, and behaviour of captive <u>Sternothacrus</u>.</p> <p>FAO:hr F</p>
<p>Riedel, W.R. (1957) 580561 <u>Rep. Swed. Deep-Sea Exped.</u>, 6(3):61-96 Radiolaris: a preliminary stratigraphy</p> <p>M</p>	<p>Williams, G.C. (1957) 580564 <u>Univ. Calif. Publ. Zool.</u>, 59:249-84 Homing behaviour of California rocky shore fishes</p> <p>Observations on local movements of tagged <u>Clinocottus analis</u> and <u>Girella nigricans</u> in Los Angeles County, and review of homing behaviour in other littoral spp.</p> <p>FAO:sjh M</p>

<p>U.K. Marino Biological Association (1957) <u>Lab.Mar.biol.Ass., Citadel Hill, Plymouth, Devon, 457 p.</u> Plymouth Marine Fauna</p>	580565	<p>Fridliand, I.G. (1957) 580568 <u>Zool.Zh.</u>, 36:1514-20 Vliianie povyshennoi mineralizatsii vody na rost i razvitie sazana v proletarskom vodokhranilishche</p>	
<p>Notes on the local distribution of species occurring in the neighbourhood of Plymouth, including some other records of species found on the south coasts of Devon and Cornwall and the adjacent offshore waters of the English Channel with description of the main collecting grounds.</p>		<p>(Effect of the augmented mineralization of water on the growth and development of carp in Proletarsky water reservoir). En Notes on the effect of salinity on the spawning and growth of carp in the Azov Sea.</p>	
FAO:glk	M	FAO:tl	MF
<p>Geller, E.R. (1957) 580566 <u>Zool.Zh.</u>, 36:1441-7 K epizootologii kontratsckoza volzhskoi sterliadi</p> <p>(Epizootology of contracocose of sturgeon, <u>Acipenser ruthenus</u>). En Principal distribution of the parasite in fish body and notes on life history.</p>		<p>Ivasik, V.M. (1957) 580569 <u>Zool.Zh.</u>, 36:1571-3 Parazitofauna karpa v zimnii period</p> <p>(Parasite fauna of carp in winter). En List of parasites found on carp and notes on the development of some pathogenic parasites in winter.</p>	
FAO:tl	MF	FAO:tl	F
<p>Babayan, K.D. (1957) 580567 <u>Zool.Zh.</u>, 36:1505-13 Kaspiiskaia kefal'</p> <p>(Caspian mullet). En Data on the biology and fishery management of mullet in the Caspian Sea, on its size, weight and age composition, as well as comparative biological characteristics of the mullet of the Caspian and Black Seas.</p>		<p>Ushakov, P.V. (1957) 580570 <u>Zool.Zh.</u>, 36:1659-72 K faune mnogoshchetinkovykh chervei (polychaeta) Arktiki i Antarktiki</p> <p>(On the Polychaeta - fauna of Arctic and Antarctic). En Description of the Polychaeta collected in the central Arctic regions by the drifting polar stations during 1950-1955.</p>	
FAO:tl	MF	FAO:tl	M

<p>Svetovidov, A.N. (1957) 580571 <u>Zool.Zh.</u>, 36:1735-46 O prichinakh razlichiiia v rosto kaspiskikh i chornomorsko-azovskikh sol'devykh</p> <p>(On the causes of difference in the rate of growth of the clupeoids of the Caspian and the Black and Azov Seas). En Distribution of <u>Alosa</u> and <u>Clupeonella</u> in the Black and Azov Seas and discussion of the factors influencing their growth rates.</p> <p>FAO:tl MF</p>	<p>Fadcoov, I.S. (1957) 580574 <u>Zool.Zh.</u>, 36:1841-7 O tipe ikrometaniia i plodovitosti nekotorykh promyslovykh kambal Sakhalina</p> <p>(On the type of spawning and fecundity of certain commercial flat-fishes of Sakhalin). En Description of the development of eggs and spawning habits of <u>Limanda aspera</u>, <u>Pseudopleuronectes herzensteini</u>, and <u>Limanda punct. punctatissima</u>.</p> <p>FAO:tl M</p>
<p>Andriiashov, A.P. (1957) 580572 <u>Zool.Zh.</u>, 36:1747-9 Novyi dlia fauny SSSR vid ryb someistva treskovykh <u>Arctogadus glacialis</u> (Peters) s droifuiushchoi stantsii "Sovernyi polius-6"</p> <p>(A gadoid sp. (<u>Arctogadus glacialis</u> (Peters)) new to the fauna of the USSR caught at the drifting station "North Pole-6"). En Description of the species and discussion of its taxonomic identity.</p> <p>FAO:tl M</p>	<p>Nikishina, E.F. (1957) 580575 <u>Zool.Zh.</u>, 36:1896-7 Kratkie soobshcheniia o prisposoblenii prudovika obyknovennogo k vysykhaniiu vodocma</p> <p>(On the adaptation of <u>Limnaca stagnalis</u> to the drying up of bodies of water). En Notes on the survival of <u>Limnaca stagnalis</u> in drying ponds.</p> <p>FAO:tl F</p>
<p>Murina, V.V. (1957) 580573 <u>Zool.Zh.</u>, 36:1777-91 Glubokovodnye sipunkulidy roda Phascolion Thcel severo-zapadnoi chasti Tikogo okoana, sobrannye ekspeditsiiami na sudno VITIAZ' v 1950-1955 godakh</p> <p>(Abyssal sipunculids (genus <u>Phascolion</u> Thcel) of the north-western part of the Pacific collected by VITJAZ expeditions in 1950-1955). En Description of the distribution of <u>Phascolion lutens</u> and description of a new species <u>P. pacificum</u>.</p> <p>FAO:tl M</p>	<p>Mokhanik, F.Ia. (1957) 580576 <u>Zool.Zh.</u>, 36:1897-900 K voprosu o golodanii ryb</p> <p>(On the problem of fish starvation). En Investigation on the effect of starvation of fry of Ladoga salmon and trout on the later development of the fish.</p> <p>FAO:tl F</p>

Schafer, R.D. & C.E. Lane (1957) 580577
Bull.Mar.Sci.Gulf Caribb., 7:289-96
Some preliminary observations bearing
on the nutrition of Limnoria

Did not survive when they were allowed
to food only on sterile wood in sterile
sea water. No fecal pellets were
produced under the conditions of this
experiment. When Limnoria were given
living mycelium of the fungus Penitri-
chophora integra as sole food source
mortality rate approached normal.

FAO:sjh

M

Johnson, T.W., Jr. & S.P. 580580
Meyers (1957)
Bull.Mar.Sci.Gulf Caribb., 7:330-59
Literature on Halophilous and Halolimnic
fungi

Annotated world bibliography on all
phases of aquatic mycology (marine and
brackish water).

FAO:sjh

MF

Moore, H.B. & D.L. O'Berry (1957) 580578
Bull.Mar.Sci.Gulf Caribb., 7:297-315
Plankton of the Florida current. IV.
Factors influencing the vortical
distribution of some common copepods

Diurnal migration of 16 spp. was studied
at eleven 24-hour stations off Miami.
The extent and direction of their
diurnal migration was shown to be
related to their day level. The
significance of temperature in the
control of night levels is discussed in
connection with geographical
distribution.

FAO:sjh

M

Gibbs, R.H., Jr. (1957) 580581
Bull.Mar.Sci.Gulf Caribb., 7:360-9
Preliminary analysis of the distribution
of white marlin, Makaira albida (Poey),
in the Gulf of Mexico

Records from long-line stations of M/V
ORLON show summer concentration in
Mississippi delta region, followed by
gradual dispersion to other parts of
Gulf, and northward movement in April
and May limited by 75°F surface
isotherm; comparison with distribution of
yellowfin tuna.

FAO:sjh

M

Bein, S.J. (1957) 580579
Bull.Mar.Sci.Gulf Caribb., 7:316-29
The relationship of total phosphorus
concentration in sea water to Red Tide
blooms

A review of existing data showed that
waters of west coast of Florida maintain
sufficient phosphorus content to support
Red Tide at all times of the year;
fluctuations in this have no direct
value in predicting outbreaks.

FAO:sjh

M

Voss, G.L. (1957) 580582
Bull.Mar.Sci.Gulf Caribb., 7:370-8
Observations on Ornithoteuthis antillarum
Adam, 1957, an ommastrophid squid from
the West Indies

O. volatilis a. raised to specific
status; ill. amplification of original
description; description of light-
producing patches in mantle cavity and on
eyeball.

FAO:sjh

M

<p>Motwani, M.P. & B.B. Bose (1957) 580583 <u>Proc.nat.Inst.Sci.India</u>, 23B:8-16 Oxygen requirements of fry of the Indian major carp, <u>Laboo rohita</u> Hamilton</p> <p>Oxygen consumption of fry of length 2.2-4.6 cm estimated in sealed bottles and continuous flow apparatus, in active and resting states; relation of O₂ consumption to weight and numbers of fish; table derived for use by industry in arranging transport in sealed containers.</p> <p>FAO:sjh F</p>	<p>Venkararaman, G.S. (1957) 580586 <u>Proc.nat.Inst.Sci.India</u>, 23B:80-8 A contribution to the knowledge of the diatomaceao of Kanya Kumari (Capo Comorin), India - I.</p> <p>Ill. systematic list of 29 forms (16 genera) in collections made June 1956. Distribution of the spp.</p> <p>FAO:sjh M</p>
<p>Misra, R.K. (1957) 580584 <u>Proc.nat.Inst.Sci.India</u>, 23B:42-7 An expression for the growth-coefficient a in the law $y=bx^a$ of constant differential growth ratio, expressing the growth relationship between the body size x and the organ size y, in various organic forms</p> <p>Derivation of a modified allometry equation, and its application to carapace and second cheliped segment lengths of a sample of 90 males of the Indian prawn <u>Palaemon hendersoni</u>.</p> <p>FAO:sjh F</p>	<p>Takesita, I. & S. Kakuda (1957) 580587 <u>J.Fac.Fish.Hiroshima</u>, 1:303-10 Radioactivity in the river water, brackish-water, sea water and the laver at river mouth, derived from radioactive rain water</p> <p>Study of radioactivity in R. Ashida, Japan, caused by fission products resulting from atomic bomb tests falling in rain and taken up by <u>Porphyra tenera</u> being cultivated at the river mouth.</p> <p>FAO:sjh MF</p>
<p>Prasad, R.R. & P.R. Sadasivan 580585 Tampi (1957) <u>Proc.nat.Inst.Sci.India</u>, 23B:48-67 On the phyllosoma of Mandapam</p> <p>Ill.description of various stages of <u>Panulirus ornatus</u>, <u>Thonus orientalis</u> and <u>Scyllarus orientalis</u>. Brooding season deduced from larval abundances; duration of larval life; unsuccessful attempts at aquarium rearing.</p> <p>FAO:sjh M</p>	<p>Irie, T. (1957) 580588 <u>J.Fac.Fish.Hiroshima</u>, 1:311-7 On the forming season of annual rings (opaques and translucent zones) in the otoliths of several marine teleosts</p> <p>Seasonal study of <u>Argyrosomus</u>, <u>Lateolabrax</u> and <u>Mylio</u> from Inland Sea of Seto, and <u>Pseudosciaena</u> from East China Sea.</p> <p>FAO:sjh M</p>

<p>Uda, M., Y. Morita & M. Ishino (1957) 580589 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):1-20 Results from the oceanographic observations in the North Pacific (1955-56) with UMITAKA-MARU and SHINYO-MARU</p> <p>Oceanographic data from NORPAC Expedition (profiles and tabulated data with description and analysis).</p> <p>FAO:tl M</p>	<p>Ichiyo, T. (1957) 580592 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):34-41 On the relationship between the plankton distribution and hydrographic condition in the adjacent seas of Japan</p> <p>Description of plankton distribution on the Pacific side of Honshu, based on data from 1954 and 1955, and development of a mathematical theory of the relation between the plankton and the hydrographic conditions.</p> <p>FAO:tl M</p>
<p>Shoji, D. (1957) 580590 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):21-6 Kuroshio during 1955</p> <p>Description of current patten and velocities during different seasons of the year.</p> <p>FAO:tl M</p>	<p>Sasaki, T. & al. (1957) 580593 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):42-5 Measurements of the angular distribution of daylight in the sea</p> <p>Results of measurements of angular distribution of daylight with the under-water observation chamber "Kurashio".</p> <p>FAO:tl M</p>
<p>Hayami, S., Y. Hukuo & D. Yoda (1957) 580591 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):27-33 On the exchange of the water masses between the Seto Inland Sea and the open seas through the Akashi Strait and the Naruto Strait</p> <p>Analyses of water exchange, determined from chlorinity change and theoretical discussion of mechanism of mixing of water masses due to the tidal currents.</p> <p>FAO:tl M</p>	<p>Ishibashi, M. & F. Morii (1957) 580594 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):46-9 A study on the method of the extraction of potassium from bittern as perchlorate</p> <p>Study of the conditions for precipitating potassium perchlorate from bittern, extracting potassium by use of perchloric acid or sodium perchlorate as a precipitant.</p> <p>FAO:tl M</p>

<p>Kume, T., T. Kuno & T. Tanaka (1957) 580595 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):50-2 Studies on the direct manufacture of sodium hydroxide and other materials from sea water. Part 3. Effects of co-existing ions for electrolysis</p> <p>Experimental results.</p> <p>FAO:tl M</p>	<p>Niino, H. (1957) 580598 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):58-62 Sediments on three submarine banks as promising fishery grounds (sediments on the Umitaka, Yonoyama and Sonjyu-sho)</p> <p>Short description of the bottom configuration, types of sediments found and names of some sessile benthic organisms caught with the snapper.</p> <p>FAO:tl M</p>
<p>Kume, T. & M. Okada (1957) 580596 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):53-6 Studies on the direct manufacture of sodium hydroxide and other materials from sea water. Part 2. Electrolysis by mercury process using a diaphragm</p> <p>Experimental results.</p> <p>FAO:tl M</p>	<p>Hatai, K. (1957) 580599 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):63-6 Geology and natural resources along the coast and bays of southern Izu Peninsula</p> <p>Notes on the nature of the coast and sea bottom in shallow water, and on occurrence of economically important benthic animals.</p> <p>FAO:tl M</p>
<p>Kume, T. (1957) 580597 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):57 Studies on the direct manufacture of sodium hydroxide from sea water</p> <p>Short summary progress report.</p> <p>FAO:tl M</p>	<p>Hiyama, Y. & F. Yasuda (1957) 580600 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):67-70 The methods of utilization of plankton by fishes</p> <p>Notes on natural competition for food among the pelagic spp. of fish, and preliminary explanation of the fluctuations in sardine catches.</p> <p>FAO:tl M</p>

Uchida, K. (1957) 580601
Rec.oceanogr.Wks Jap., 12(2):71-2
The life history of fishes in the areas affected by the warm currents (Kuroshio) in the sea on the south of Japan

Short notes on the seasonal occurrence of different spp. of fish on the coast of Tokushima and Kochi Prefectures.

FAO:t1

M

Miyadi, D. & T. Habo (1957) 580604
Rec.oceanogr.Wks Jap., 12(2):79-86
The relationship between the Inland Sea of Seto and the open sea. II. Deposits of molluscan shells in the Hiuchi-nada and the Bingo-nada

Description of the hydrographic conditions and benthos with emphasis on the shells of molluscs.

FAO:t1

M

Yamada, Y. (1957) 580602
Rec.oceanogr.Wks Jap., 12(2):73-6
Report on some groups of sea-woods belonging to Rhodophyta (red algae) collected around Hachijojima and Mikurajima Islands and also off Tosa district

Taxonomic discussion of the identification of some spp. of red algae.

FAO:t1

M

Miyadi, D. & T. Habo (1957) 580605
Rec.oceanogr.Wks Jap., 12(2):87-92
The relationship between the Inland Sea of Seto and the open sea III

Description of the hydrographic conditions and benthos with emphasis on the shells of molluscs.

FAO:t1

M

Sogawa, S. (1957) 580603
Rec.oceanogr.Wks Jap., 12(2):77-8
Report on the sea-woods, especially corallimac found around the Izu-Miyako and Tosa-Kashiwa Islands

Taxonomic description of 4 spp.:
(Amphiroa rigida, A. ophodraea, A. crassissima and Corallina pilulifera).

FAO:t1

M

Abu, T. (1957) 580606
Rec.oceanogr.Wks Jap., 12(2):93-6
Studies on the fishes whose young are believed to be carried in large numbers by the "Kuro-shiwo"

Description of the distribution of young spp. of Cubicops gracilis, Cypselurus pinnatibarbatus japonicus, Scomber tapinocephalus, Trachurus japonicus, Tetragonurus cuvieri and Mupus japonicus in the west Pacific.

FAO:t1

M

<p>Haneda, Y. (1957) 580607 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):97-102 Studies on the luminous organisms found in waters adjacent to the Pacific coasts of Japan</p> <p>Description of types and reasons of luminosity by <u>Anomalops</u>, <u>Cypridina noctiluca</u>, various luminous marine snails, squids, fish (<u>Paratrachichthys prosthomius</u> and <u>Lestidium nudum</u>).</p> <p>FAO:tl M</p>	<p>Honjo, K. (1957) 580610 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):130-3 Distribution of <u>Euphausiacoa</u> in the Kuroshio area, south of Honshu, May 1955</p> <p>List of spp. occurring, and description of geographical distribution.</p> <p>FAO:tl M</p>
<p>Nakai, Z. (1957) 580608 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):103-19 An outline of biological survey and distribution of wet weight of macroplankton in the Kuroshio area, south of Honshu, May 1955</p> <p>Description of the geographical distribution of quantities of plankton (mainly zooplankton).</p> <p>FAO:tl M</p>	<p>Okutani, T. (1957) 580611 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):134-42 Holoplanktonic gastropoda in the Kuroshio area, south of Honshu, May 1955</p> <p>List of spp. composition and their distribution. Description of juvenile <u>Pterosoma planum</u>.</p> <p>FAO:tl M</p>
<p>Honjo, K. & al. (1957) 580609 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):120-9 Distribution of copepoda in the Kuroshio area, south of Honshu, May, 1955</p> <p>Includes list of zooplankton spp. occurring in Kuroshio waters.</p> <p>FAO:tl M</p>	<p>Hattori, S., T. Watanabe & T. Okutani 580612 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):143-58 Fish larvae and eggs in the Kuroshio area, south of Honshu, May 1955</p> <p>List of spp. collected, and notes on their horizontal and vertical distribution.</p> <p>FAO:tl M</p>

<p>Nakai, Z. & al. (1957) 580613 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):159-96 A preliminary report on the biological survey in the Kuroshio area, south of Honshu, June-July 1955</p> <p>Quantitative distribution of total zooplankton, spp. composition and their quantitative distribution; quantities of different spp. of fish eggs and larvae, and their distribution.</p> <p>FAO:t1 M</p>	<p>Lundbak, A. (1957) 580616 <u>Dtsch.hydrogr.Z.</u>, 10:176-83 Surge frequencies along the Danish west-coast. Fr De</p> <p>4 frequency formulas for treatment of the frequencies of extreme values of high sea level are considered. The occurrence of flood levels on the Danish coasts is described and their dependence on strong gales is considered.</p> <p>FAO:t1 M</p>
<p>Watanabe, N. (1957) 580614 <u>Rec.oceanogr.Wks Jap.</u>, 12(2):197-208 A preliminary report on the oceanographic survey in the Kuroshio area, south of Honshu, June-July 1955</p> <p>Hydrographic data and description of hydrographic conditions.</p> <p>FAO:t1 M</p>	<p>Darbyshire, J. (1957) 580617 <u>Dtsch.hydrogr.Z.</u>, 10:184-90 A note on the comparison of proposed wave spectrum formulae. Fr De</p> <p>3 wave spectrum formulae are considered. Examples of wave observations in the North Atlantic are given and the Darbyshire formula and the methods of Pierson, Neumann and James are used to hindcast them.</p> <p>FAO:t1 M</p>
<p>Oren, O.H. (1957) 580615 <u>Bull.Inst.oceanogr.Monaco</u>, (1102):15 p. Changes in temperature of the eastern Mediterranean Sea in relation to the catch of the Israel trawl fishery during the years 1954-55 and 1955-56</p> <p>Investigations on the possible reasons of increased catches of lizard fish (<u>Saurida grandisquamis</u>), and yellow striped mullet (<u>Upeneus moluccensis</u>) by Israeli trawlers in recent years.</p> <p>FAO:t1 M</p>	<p>Krauss, W. (1957) 580618 <u>Dtsch.hydrogr.Z.</u>, 10:191-201 Interne Wellen grosser Amplitude. I. Eigenschwingungen der Grenzfläche zweier Wassermassen im reibungsfreien Ozean (Internal waves of great amplitude. I. Eigen-oscillations of the interface of 2 water bodies in a frictionless ocean). Dn Fr</p> <p>Paper gives a general solution of the system of the 6 homogeneous, partial differential equations describing the eigen-oscillations in a frictionless, 2-stratified ocean without horizontal limitation.</p> <p>FAO:t1 M</p>

<p>Yashouv, A. (1958) 580619 <u>Fish.Bull., Haifa, (15):4-10</u> (The state of <u>Acanthobrama</u> fishery in Lake Tiberias). <u>Iw</u> En</p> <p>Changes in the fishery - catches, gears used - 1949 to 1957; environmental factors affecting the stock; relation between gill-net and ring-net catches.</p> <p>FAO:sjh F</p>	<p>Komarovsky, B. (1958) 580622 <u>Fish.Bull., Haifa, (15):20-5</u> (Contribution to the knowledge of the plankton of Lake Huleh). <u>Iw</u> En</p> <p>Study of spp. composition, zooplankton and phytoplankton of this Israelic lake made in view of the changes which will result from the National Water Plan.</p> <p>FAO:sjh F</p>
<p>Nun, M. (1958) 580620 <u>Fish.Bull., Haifa, (15):14-7</u> (Ancient fishing of the Hebrews from foreign literary sources). <u>Iw</u></p> <p>FAO: F</p>	<p>Ben-Tuvia, A. (1958) 580623 <u>Fish.Bull., Haifa, (15):26-8</u> (A comparison between the fish fauna of the eastern Mediterranean and the Red Sea). <u>Iw</u> En</p> <p>Affinities of the Mediterranean and Indo-Pacific faunas as a result of the late existence of the connecting Tethys sea; effect of Suez canal; Red Sea spp. on the E. Mediterranean trawl grounds.</p> <p>FAO:sjh M</p>
<p>Ben-Tuvia, A. (1958) 580621 <u>Fish.Bull., Haifa, (15):18-9</u> (Know your fish). <u>Iw</u></p> <p>Illustrations and brief notes on <u>Solea</u>, <u>Sparus</u>, <u>Diplodus</u>, <u>Sphagebranchus</u>, <u>Sparisoma</u>, <u>Dicentrarchus</u> and <u>Monochirus</u>.</p> <p>FAO:sjh M</p>	<p>Ben-Yami, M. (1958) 580624 <u>Fish.Bull., Haifa, (15):29-31</u> (Measurements of trawl gear by means of underwater equipment). <u>Iw</u> En</p> <p>Report of experiments made on R.F.V. HATZVI, January 1958, cooperatively by FAO and Government of Israel, in the E. Mediterranean.</p> <p>FAO:sjh M</p>

<p>Crew of F/V LAMERCHAW (1958) 580625 <u>Fish.Bull.</u>, Haifa, (15):31 (On the performance of the Portuguese otter boards). <u>Iw</u></p>	<p>Miller, A.R. (1958) 580628 <u>Limnol.Oceanogr.</u>, 3(1):1-14 The effects of winds on water levels on the New England coast</p> <p>Study of tidal records and wind and barometric observations from Nantucket Sound, Cape Cod; Montauk, Long Island; and Portland, Maine. Departure from mean sea level due to wind is resolved into 2 components and importance of each is analysed.</p>
<p>FAO: M</p> <p>Grundy, F. (1958) 580626 <u>WMO Bull.</u>, 7:64-7 Cetyl alcohol reduces evaporation from reservoirs</p> <p>The results of trials made and notes on future possibilities to use cetyl alcohol for reduction of evaporation.</p>	<p>TL:tl M</p> <p>Davis, C.C. (1958) 580629 <u>Limnol.Oceanogr.</u>, 3(1):15-28 An approach to some problems of secondary production in the western Lake Erie region</p> <p>Study to find whether zooplankton feeds mainly on phytoplankton or on tripton. Water samples from Erie & from several ponds were analyzed for dissolved organic & inorganic matter, volume of phyto- plankton & zooplankton, u-cells (mostly bacteria), & of organic & inorganic tripton. Dynamics of phytoplankton production and grazing are discussed.</p>
<p>FAO:tl F</p> <p>Leonard, E.B. (1958) 580627 <u>Spcc.Lib.</u>, 49(3) March 1958:3 p. A decimal classification for fisheries</p> <p>A short account by the librarian of Woods Hole Fisheries Laboratory, U.S.A. of the steps undertaken by FAO to develop a comprehensive classification; gives an outline of the most recent draft.</p>	<p>TL:tl F</p> <p>Barnes, H. & M.Barnes (1958) 580630 <u>Limnol.Oceanogr.</u>, 3(1):29-32 The rate of development of <u>Balanus</u> <u>balanoides</u> (L.) larvae</p> <p>Rate of transition from state I to II B for temperatures ranging 1-18°C.; duration of planktonic phase over area of distribution; significance of food supply variations in compensating for temperature effects.</p>
<p>SJH:sjh MF</p>	<p>TL:tl M</p>

<p>Collier, A. (1958) 580631 <u>Limnol.Oceanogr.</u>, 3(1):33-9 Some biochemical aspects of red tides and related oceanographic problems</p> <p>Discussion of biological factors operative in the genesis of <u>Gymnodinium breve</u> blooms in G. of Mexico.</p> <p>TL:tl M</p>	<p>Kutkuhn, J.H. (1958) 580634 <u>Limnol.Oceanogr.</u>, 3(1):69-83 Notes on the precision of numerical and volumetric plankton estimates from small-sample concentrates</p> <p>An attempt to evaluate the techniques employed in a recent study concerned with measurement of littoral plankton populations.</p> <p>TL:tl MF</p>
<p>Gorham, E. (1958) 580632 <u>Limnol.Oceanogr.</u>, 3(1):40-50 The physical limnology of northern Britain: an epitome of the bathymetrical survey of the Scottish freshwater lochs, 1897-1909</p> <p>Interrelations between drainage area, lake area, length, breadth, mean depth, & maximum depth are examined in 262 rock basins & 137 basins lying in or dammed by glacial drift. Effect of lake dimensions on time taken for complete water replacement is calculated.</p> <p>TL:tl F</p>	<p>Hepher, B. (1958) 580635 <u>Limnol.Oceanogr.</u>, 3(1):84-100 On the dynamics of phosphorus added to fishponds in Israel</p> <p>Results of experiments for the investigation of the fate of phosphate added to fishponds and the inorganic processes of phosphorus fixation in the pond.</p> <p>TL:tl F</p>
<p>Anderson, G.C. (1958) 580633 <u>Limnol.Oceanogr.</u>, 3(1):51-68 Seasonal characteristics of two saline lakes in Washington</p> <p>Study of relation of physical and chemical conditions to growth and distribution of phytoplankton, consisting mainly of <u>Amphora</u> sp. (spring) and <u>Chaetoceros elmorei</u> (late summer), in Soap L. and P. Lenore in the Columbia R. basin.</p> <p>TL:tl MF</p>	<p>Rittenberg, S.C., T. Mittwer & D. Ivler (1958) 580636 <u>Limnol.Oceanogr.</u>, 3(1):101-8 Coliform bacteria in sediments around three marine sewage outfalls</p> <p>Results of investigation of the distribution of coliforms in sediments around Californian outfalls into the Pacific Ocean.</p> <p>TL:tl M</p>

Emery, K.O. (1958) 580637
Limnol.Oceanogr., 3(1):109-11
Bacterial bottom sampler

Description of the sampler and its operation.

TL:tl MF

Graybill, F.A. (1958) 580640
Ann.math.Statist., 29(1):282-7
Determining sample size for a specified width confidence interval

A 2-stage sampling procedure applicable to fisheries problems.

FAO:sjh MF

Lewin, R.A. (1958) 580638
Limnol.Oceanogr., 3(1):111-3
The mucilage tubes of Amphipleura rutilans

Results of chemical analysis of the mucilage tubes of this littoral diatom.

TL:tl M

Hepher, B. (1958) 580641
Bamidgeh, 10(1):4-18, 23-30
The effect of various fertilizers and the methods of their application on the fixation of phosphorus added to fishponds.
En Iwrit

Laboratory and farm pond experiments on the effects on phosphorus concentration, a) of addition of carbon dioxide, b) of fertilizer added in solution, c) of fertilization in small, frequent doses and d) of fertilization with phosphoric acid and ammonium phosphate.

WAD:tjj F

Sherman, B. (1958) 580639
Ann.math.Statist., 29(1):267-73
The limiting distribution of Brownian motion in a bounded region with instantaneous return

Solution of a problem having its origins in studies of the non-random distribution of animals in an enclosed space.

FAO:sjh MF

Bridges, W.R. (1958) 580642
Spec.sci.Rep.U.S.Fish Wildl.Serv., (253): 11 p.
Sodium cyanide as a fish poison

Results of laboratory and farm experiments in Illinois on intensity and duration of toxicity, revival of affected fish etc, and suggestions for uses in fishery management.

WAD:tjj F

Hattop, H.-W. (1958) 580643
Dtsch. FischZtg., 5:97-100
Konstruktion und Anwendungsmöglichkeiten
von elektrischen Fischsperrn
(Construction and possibilities for use
of electrical fish barriers)

Description of the principles of
electrical fish barriers, and notes
on earlier experiences with them.

FAO:t1

F

Müller, W. (1958) 580646
Dtsch. FischZtg., 5:115-8
Die Teichversuche des Jahres 1957 in
Königswartha. I. Düngungsversuche mit
Kalk, Phosphat und ihrer Kombination
(Investigations of ponds in 1957 in
Königswartha. I. Fertilization tests with
lime, phosphate and their combination)

Preliminary results on the fertilization
of fish ponds with lime and phosphate.

FAO:t1

F

Nagel, L. (1958) 580644
Dtsch. FischZtg., 5:110-1
Erfahrungen über die Verringerung der
Einschloppung von Brutparasiten in die
Karpfen-Laichteiche (Experiences
on diminishing the passage of fry-
parasites into the spawning ponds of
carp)

Notes on the use of chemicals for
disinfection of the spawning carp before
release into spawning ponds.

FAO:t1

F

Hardy, A.C. (1958) 580647
New Scient., 3(77):12-4
How science is changing the fishing
industry

Describes development of trawler design,
hull shape, propulsion; factory ships;
stern trawling.

FAO:sjh

M

Michler, G. (1958) 580645
Dtsch. FischZtg., 5:111-2
Über den zeitlichen Verlauf der Bauch-
wassersucht, das Verhältnis der
abgelesenen Fische zu den tatsächlichen
Verlusten, Herbstbesatz und Chloronitri-
n-Injektion (On the course of,
abdominal dropsy, the relation of
counted fish to the real loss, autumn
stocking and chloronitri-injection)

Description of various investigations
on carp.

FAO:t1

F

Cloudsley-Thompson, J.L. (1958) 580648
New Scient., 3(77):18-20
When and why animals fight

A short review of aggressive behaviour,
with brief reference to male stickle-
backs and seals.

FAO:sjh

MF

<p>Vladykov, V.D. (1958) 580649 <u>Actualités mar.</u>, 2(1):6-12, 33 Doux pêches caractéristiques du fleuve St. Laurent (Two characteristic fish traps of the St. Lawrence river)</p> <p>Ill. description of complex netting traps used for catching eels (<u>Anguilla rostrata</u>) and herring (<u>Clupea harengus</u>).</p> <p>FAO:sjh MF</p>	<p>Berube, Z. (1958) 580652 <u>Actualités mar.</u>, 2(1):29-32 Statistiques des Pêches Maritimes du Quebec - Captures 1957, revue 1917 à 1957 (Marine Fisheries Statistics of Quebec. 1957 catches, review from 1917 to 1957)</p> <p>Catches by spp. and regions; quantities value, number of fishermen; number and tonnage distribution of different types of craft, and their catches.</p> <p>FAO:sjh M</p>
<p>Boulangor, J.M. (1958) 580650 <u>Actualités mar.</u>, 2(1):13-8, 28 Le facteur température et les pêcheries du Bas-Saguenay (Temperature and the fisheries of Bas-Saguenay)</p> <p>Oceanography of Gulf of St. Lawrence, and the cod and capelin stocks.</p> <p>FAO:sjh M</p>	<p>Artüz, I. (1958) 580653 <u>Balık Balıkçılık</u>, 6(5):1-9 Torik-Palamut <u>Sarda sarda</u> ların Mevsim ve Senelore Bağlı Av Peryotları - II (Catching periods of <u>Sarda sarda</u> in different seasons and years - II)</p> <p>Seasonal catch distribution of large and small size-groups in Turkish waters.</p> <p>SJH:sjh M</p>
<p>Bergeron, J. (1958) 580651 <u>Actualités mar.</u>, 2(1):19-22, Pêche expérimentale au poisson rouge (Experimental fishing for redfish)</p> <p>Results of exploratory trawling for <u>Sebastes marinus</u> in the Lawrence channel around Anticosti.</p> <p>FAO:sjh M</p>	<p>Türgân, G. (1958) 580654 <u>Balık Balıkçılık</u>, 6(5):10-2 Lüfer Balıklarının Vayilis Bölgeleri (About the distribution areas of the blue fish)</p> <p>Distribution chart and notes on <u>Temnodon saltator</u>.</p> <p>SJH:sjh M</p>

<p>Akyüz, E.F. (1958) 580655 <u>Balık Balıkçılık</u>, 6(5):13-6 Balık Stoklarının Muhafazası ve Balıkçılık Teorisi (The preservation of fish stocks and theory of fishery) Text of a lecture given by the author in Istanbul.</p> <p>SJH:sjh MF</p>	<p>Anonymous (1958) 580658 <u>Balık Balıkçılık</u>, 6(5):27-30 Florida'nın Acayip Bir Mahlûku; Manateeler (The sea-cows of Florida) A brief popular note on the biology of the Manatee.</p> <p>SJH:sjh M</p>
<p>Üner, S. (1958) 580656 <u>Balık Balıkçılık</u>, 6(5):17-20 Çaparı, Vapilişi ve Avlanma Usulü - II (About hook and line - II) Ill. description of fishing gear used for catching various pelagic fish spp. in Turkish waters.</p> <p>SJH:sjh M</p>	<p>New Zealand, Marine Department (1958) 580659 Wellington, 9 p. Experimental trawling in Otago waters, winter, 1957 Report of 2 month survey by R.V. <u>İKATERE</u>; production statistics for the local fishery; description of gear and operations; charts of trawl stations; catch per unit effort by areas and spp. - (mostly Barracouta, Elephant fish, Hapuka, Pioke and Tarakihi; <u>Thyrsites atun</u>, <u>Callorhynchus milii</u>, <u>Polyprion oxigencios</u>, <u>Dactylopagrus macropterus</u>).</p> <p>FiB:sjh M</p>
<p>Anonymous (1958) 580657 <u>Balık Balıkçılık</u>, 6(5):23-6 Hiç Akla Gelmedik Bir döviz Kaynağı: Sülükler (A new source of foreign exchange for Turkey: the leeches (<u>Hirudo medicinalis</u>)) An interview on the catch of leeches and the methods of packing them.</p> <p>SJH:sjh F</p>	<p>U.S. Congress. Joint Committee on Atomic Energy (1957) 580660 Washington, Govt. Print. Off., :1009-2065 The nature of radioactive fallout and its effects on man. Hearings before the special subcommittee on radiation of the Joint Committee on Atomic Energy Congress of the United States, eighty-fifth Congress, 1st session, June 4, 5, 6 & 7, Pt. 2 Contains many summary statements from American, British & International sources on occurrence of natural & artificial radioactivity & its diverse effects on animals, incl. aquatic forms, & on the distribution of radioactive products incl. oceanic processes. Extensive annotated bibliography.</p> <p>FAO:sjh MF</p>

<p>Järvi, T.H. (1958) 580661 <u>Acta zool.fenn.</u>, (94):40 p. Über die Lachserrträge im Oulujoki in den Jahren 1870-1948 (On the salmon yield in Oulujoki in the years 1870- 1948)</p> <p>Catch statistics by size and by year classes.</p> <p>WAD:tl MF</p>	<p>Nanda, J.N., K. Achyuthan & 580664 N.K. Balachandran (1958) <u>Nature, Lond.</u>, 181:646 Periodicity in sea roughness and origin of microseisms</p> <p>Study of radar clutter as a means of measuring sea roughness for studying the correlation between the microseisms and the roughness of the sea and the winds.</p> <p>GLK:tl M</p>
<p>Heslop-Harrison, J. (1958) 580662 <u>Nature, Lond.</u>, 181:586 Biogeography - An ecological perspective</p> <p>Review of book with the same title by P. Dansereau, Ronald Press Company, New York, 1957.</p> <p>GLK: MF</p>	<p>Iyer, H.M., D. Lambboth & 580665 B.J. Hindo (1958) <u>Nature, Lond.</u>, 181:646-7 Refraction of microseisms</p> <p>Short summary on the study of microseisms for discovering the storm centres in the oceans and construction of refraction diagrams for microseisms of 6 and 9 sec. period.</p> <p>GLK:tl M</p>
<p>Hastings, A.B. & H. Dighton 580663 Thomas (1958) <u>Nature, Lond.</u>, 181:599 Prof. H.A. Kluge</p> <p>Obituary, and short biography of this Russian freshwater and marine biologist, with special reference to his work on polychaeta, and the zoology of the Arctic ocean</p> <p>GLK:sjh MF</p>	<p>McTaggart, H. Scott (1958) 580666 <u>Nature, Lond.</u>, 181:651 <u>Cryptocotyle lingua</u> in British Mink</p> <p>First report in Britain of this heterophyid trematode whose intermediate stage is in marine snails and fish.</p> <p>GLK:wad</p>

Food & Agriculture Organization 580667
of the United Nations (1958)
Rep.FAO/ETAP, (721):98 p.
Rapport provisoire au Gouvernement
d'Haiti sur les pèches maritimes on
Haiti (Provisional report to
the Government of Haiti on the marine
fisheries of Haiti)

Gives information on marine fishery
resources of Haiti, particularly on tuna
resources.

SJH:hr

M

Food & Agriculture Organization 580670
of the United Nations (1958)
Rep.FAO/ETAP, (781):103 p.
Rapport sur la situation des pèches dans
les territoires servis par la
Commission des Caraïbes (Report
on the state of the fisheries in the
territories served by the Caribbean
Commission)

Contains generalities on the islands, an
analysis of the Caribbean Fisheries;
studies of the fishing methods, fresh-
water fisheries and fish-culture, fishery
services, fishery industries, fish
marketing; conclusions & recommendations.

SJH:hr

MF

Food & Agriculture Organization 580668
of the United Nations (1958)
Rep.FAO/ETAP, (754):32 p.
Informe al Gobierno de Venezuela sobre
la evaluación de sus recursos pesqueros
marinos (Report to the
Government of Venezuela on the appraisal
of its marine fishery resources)

A preliminary study of the populations of
Sardinella anchovia, with notes on the
environment and other spp., (Opisthonema
oglinum and Cotengraulis edentulus).

FiB:hr

M

Wiegol, R.L., C.M. Snyder & 580671
J.E. Williams (1958)
Trans.Amer.geophys.Un., 39:224-36
Water gravity waves generated by a
moving low pressure area

Coupled water gravity waves, generated by
a moving low pressure area were studied
in a towing tank. Velocities in deep and
shallow water are examined and results
compared with measured speeds of the
waves generated by hurricane "Carol".

TL:tl

M

Food & Agriculture Organization 580669
of the United Nations (1958)
Rep.FAO/ETAP, (780):147 p.
Rapport au Gouvernement du Liban sur la
pêche (Report to the
Government of Lebanon on fisheries)

Contains a study of the food economy,
generalities, description and analysis
of the fisheries, studies of landings,
preservation and transport of fish, fish
imports and conclusions and
recommendations.

SJH:hr

MF

Urlick, R.J., L.C. Pharo & 580672
E. Skudrzyk (1958)
Trans.Amer.geophys.Un., 39:237-40
A new method for measuring the thermal
microstructure of the sea

9 thermistors spaced at various
distances along a 12 ft bar, and
temperature difference between successive
pairs measured by a bridge circuit and
d c amplifier. Limited number of
measurements off Florida were analysed
by finding correlation function of
temperature, describing spacial
distribution of temperature changes.

TL:tl

M

Cridland, C.C. (1958) 580673

J.trop.Med.(Hyg.), January 1958:7 p.
Ecological factors affecting the
numbers of snails in a permanent stream

Study of monthly samples of Biomphalaria
sudanica and Lymnaea exserta from
Kibibi R., Uganda, 7/7/54 - 18/2/56;
methods of collection; seasonal
fluctuations in population; incidence of
trematode infection, especially by
Schistosoma mansoni.

GLK:sjh

F

Kapitonov, E.I. (1958) 580676

Priroda, Moskva, 47(1):93-5
Soodinonic roki Kubani s Chernom morom
(Connection of Kuban rivers in the
Black Sea)

FAO:

MF

Burkhanov, V.F. (1958) 580674

Priroda, Moskva, 47(1):9-18
Volikii severnyi morskoi put' (The
great northern sea passage)

Historical notes on the discovery and
navigation along the Siberian northern
coast from Barents Sea to Bering Sea,
and notes on the importance of this
passage.

FAO:tl

M

Kes, A.S. (1958) 580677

Priroda, Moskva, 47(1):95-9
O kolebaniakh urobnia Aralskogo moria
(On the fluctuation of the level of
the Aral Sea)

FAO:

M

Karpevich, A.F. (1958) 580675

Priroda, Moskva, 47(1):26-31
Nastoiashchee i budushchee Azovskogo
mor'ia (Present and future of the
Azov Sea)

Notes on the present standing crop of
plankton and benthos, and fish catches
in Azov Sea and prognosis on the future
changes in this sea after completion
of the Volga canal and diversion of
more fresh water into it.

FAO:tl

MF

Tomilin, A.G. (1958) 580678

Priroda, Moskva, 47(1):108-10
Osobennosti povedeniia kitoobraznykh
(Peculiarities of the behaviour of
whales)

FAO:

M

Sebedenko-Iubkin, M.M. (1958) 580679
Priroda, Moskva, 47(1):117-20
Sovremennaja akvarial'naja tekhnika
(Modern aquarium techniques)

FAO: F

Kitano, K. (1958) 580682
Bull.Hokkaido reg.Fish.Res.Lab.,(17):111-24
On the characteristics of the water mass stratifications over the frontal zone of "Tohoku-Kaiku". Ni En

Subdivision of T-S diagram used for classification of the water masses; simple theoretical model used to interpret seasonal and geographic fluctuations.

FAO:sjh M

Sato, S. (1958) 580680
Bull.Hokkaido reg.Fish.Res.Lab.,(17):1-102
Studies on larval development and fishery biology of king crab, Paralithodes camtschatica (Tilesius).
En Ni

Ill. summary of systematics of Lithodidae and larvae of all Decapoda in N. Pacific; distribution & its relation to environmental factors, food & survival rate; stock identity, size & fluctuations, rearing of larvae; migrations & behaviour of this crab; tagging expts., fishing rate, age & growth; gears used in the fishery & their effectiveness; history of the fishery; full bibliography.

FAO:sjh M

Nagukawa, I. (1958) 580683
Bull.Hokkaido reg.Fish.Res.Lab.,(17):125-31
On the meandering of the Tsushima Current. Ni En

Variation of amplitude and wave length of meander in N.W. Pacific with depth, locality and season.

FAO:sjh M

Kitano, K. (1958) 580681
Bull.Hokkaido reg.Fish.Res.Lab.,(17):103-10
A possible interpretation of the warm core and the cold low-salinity layer

Comparison of Gulf Stream & Kuroshio Extension. Similarity of size & intervals between anomalies of diluted remnants as well as the gobs are emphasized as evidence of generated eddies intermittently along free boundary layers of turbulent jet flow.

FAO:sjh M

Hasogawa, Y. & T. Wakui (1958) 580684
Bull.Hokkaido reg.Fish.Res.Lab.,(17):132-6
On the embryological development of the tetraspores in Corallina pitulifera P. et R. Ni En

Ill. report of laboratory study, 24/9-9/11/54 on rate and type of development.

FAO:sjh M

Fukuhara, E. (1958) 580685
Bull.Hokkaido reg.Fish.Res.Lab., (17):
137-44
Ecological studies on Iridophycus
cornucopiae (P. et R.) Setch. et Gardn.
7. On the germination of the spores.
Ni En

Adherence to substrate, rate & time of
division, types of sporclings; many ill.

FAO:sjh M

Mandelbaum, H. (1958) 580688
Trans.Amer.geophys.Un., 39:335-6
Discussion of "Evidence for a critical
wind velocity for air-sea boundary
processes" and "Change in the relation-
ship between wind and surface water
movement at higher wind speeds"

Discussion of the original articles by
Mandelbaum, H. (1956), Trans.Amer.geophys.
Un., 37(6):685-90, & by Lawford, A.L. &
al. (1956), Trans.Amer.geophys.Un., 37(6):
691-3. The shape of curve for current
velocities by various wind velocities.
Discontinuity between 6-8 m/sec. (of wind
velocity) is doubted. See also Mandelbaum,
H. (1957) Trans.Amer.geophys.Un., 38:584-5,
& Lawford, A.L. & V.F.C. Volcy (1957)

Fukuhara, E. (1958) 580686
Bull.Hokkaido reg.Fish.Res.Lab., (17):
147-53
Ecological studies on Iridophycus
cornucopiae (P. et R.) Setch et Gardn.
8. Influences of water temperature on
the germination of carpospore and
totraspore. Ni En

Ill. report of laboratory culture expts.
to determine limiting & optimum
temperatures; relation of results of
known natural distribution and
vegetative development.

FAO:sjh M

580688
(Card 2)
Trans.Amer.geophys.Un., 38:585-6.

TL:tl MF

Beaumont, R.T. (1957) 580687
Trans.Amer.geophys.Un., 38:198-200
A criterion for selection of length of
record for a moving arithmetic mean for
hydrologic data

In forecasting runoff a reliable
reference base period is needed.
Procedure derived by which objective
selection of best length of record can
be made for computation of a moving mean.
Results given for several records of
precipitation and runoff at stations in
western U.S.A.

TL:sjh F

Van Hylekama, T.B.A. (1958) 580690
Trans.Amer.geophys.Un., 39:337
Discussion of "A criterion for
selection of length of record for a
moving arithmetic mean for hydrologic
data

Discussion of 580687. A test of formula
given in 580687 using random numbers.

TL:sjh F

FAO/58/6/4166

Beaumont, R.T. (1958) 580691
Trans.Amer.geophys.Un., 39:337-8
Discussion of "A criterion for
selection of length of record for a
moving arithmetic mean for hydrologic
data"

A reply to van Hylckama, 580690.

TL:sjh

F

Anonymous (1958) 580694
Trans.Amer.geophys.Un., 39:360-2
IGY Bulletin - Life sciences in the IGY

Contains notes on study of marine
biology during IGY. (Report of cruise of
BROWN BEAR; seal marking at Wilkes
station; drifting stations taking
plankton samples; sea ice studies and
physiology of frozen organisms.)

TL:tl

M

Anonymous (1958) 580692
Trans.Amer.geophys.Un., 39:348-9
Notes and Personalia

Includes notes on changes of plans for
cruise of ATLANTIS (Woods Hole
Oceanographic Institute); joint I-ATTC
& Scripps Institution expedition using
SPENCER F. BAIRD on W. coast of North
America (S. Diego - Panama); establish-
ment of Marine Microbiological Laboratory
of Inst.Mar.Science of Univ. of Texas,
at Mustang I., Port Aransas, under
direction of C.H. Oppenheimer.

TL:sjh

M

Anonymous (1958) 580695
Trans.Amer.geophys.Un., 39:363-5
IGY Bulletin - Cruise of the BROWN BEAR

Track chart for 1957 and 58; number and
kind of observations and samples taken
during 1957 and notes on the principal
tentative results in physical
oceanography.

TL:tl

M

Brewer, M.C. (1958) 580693
Trans.Amer.geophys.Un., 39:278-84
The thermal regime of an Arctic lake

Description of seasonal variations of
temperature in Alaskan lakes with
special reference to warming and cooling
of water under the ice.

TL:tl

F

Anonymous (1958) 580696
Bull.Chasse-Pêche Congo, 6:425-30
Organisation administrative Chasse et
Pêche dans la Colonie (Administrative
Organization Fish and Game in the Colony)

List of personnel.

GLK:hr

<p>Watson, D.J. (1958) 580697 <u>Nature, Lond.</u>, 181:82-4 Biological productivity of Britain</p> <p>Brief report on Symposium organized by Institute of Biology; reviews Lund's and Lo Cren's papers on productivity of freshwaters and on production of fish respectively (580725 & 580726).</p> <p>GLK:tjj F</p>	<p>Wangersky, P.J. & G.E. 580700 Hutchinson (1958) <u>Nature, Lond.</u>, 181:108-9 Manganese deposition and deep water movements in the Caribbean</p> <p>Notes on the variations of the amount of manganese in a sediment core, and correlations of these variations with palaeotemperatures as determined by oxygen 18-16 method. Discussion of the mechanism of manganese deposition, and the influence of ocean currents there on.</p> <p>GLK:tl M</p>
<p>Chen, P.S. & F. Baltzer (1958) 580698 <u>Nature, Lond.</u>, 181:98-100 Species-specific differences in free amino-acids and peptides in sea-urchin eggs and embryos (pure spp. & hybrids)</p> <p>Reports now work on chromatograms of <u>Paracentrotus lividus</u>, <u>Arbacia lixula</u> and <u>Sphaerocchinus granularis</u> and their hybrids, from Naples, March/April, 1957.</p> <p>GLK:sjh M</p>	<p>Burden-Jones, C. & G.H. 580701 Charles (1958) <u>Nature, Lond.</u>, 181:129-31 Light reactions of littoral gastropods</p> <p>Experiments with <u>Littorina littorina</u> using polarized light.</p> <p>GLK:wad M</p>
<p>Brodie, J.W. & R.W. 580699 Burling (1958) <u>Nature, Lond.</u>, 181:107-8 Age determination of southern Ocean waters</p> <p>Carbon-14 age determination of 2 deep water samples from Antarctic waters and discussion of the results in the light of the water circulation in Antarctic waters.</p> <p>GLK:tl M</p>	<p>Taylor, F.J. (1958) 580702 <u>Nature, Lond.</u>, 181:136-7 Effect of plasmolysis on the rate of respiration of a green alga</p> <p>Summary of experiments with <u>Scenedesmus quadricauda</u>.</p> <p>GLK:wad F</p>

Clark, W.C. (1958) 580703
Nature, Lond., 181:137-8
 Escape responses of herbivorous gastropods when stimulated by carnivorous gastropods

Observations and experiments with many spp., and also with starfishes as stimulators.

GLK:wad

M

Levino, H.R. (1957) 580706
Smith.misc.Coll., 134(11):28 p.
 Anatomy and taxonomy of the mature naiads of the dragonfly genus Plathomis (Family Libellulidae)

F

Earle, W.K. (1957) 580704
Whaling Museum Society, Inc., New York,
 36 p.
 Scrimshaw: folk art of the whalers

M

U.S. Navy, Hydrographic Office (1958) 580707
Washington, 1958
 Solar altitude nomogram

A nomogram for rapid determination of solar altitude for any given position and time.

TL:tl

M

Dodge, H. (1957) 580705
Bull.Amer.Mus.nat.Hist., 113(5):73-244
 A historical review of the mollusks of Linnaeus - The genus Murex of the class gastropoda

M

Serokin, C. & R.W. Krauss (1958) 580708
Plant Physiol., 33:109-13
 The effects of light intensity on the growth rates of green algae

Description of the growth responses of five green algae to different light intensities under comparable environmental conditions. (Chlorella pyrenoidosa, C. vulgaris, Scenedesmus obliquus, Chlamydomonas reinhardtii and high temperature strain of Chlorella pyrenoidosa).

FAO:tl

F

Stěpánck, M. (1958) 580709
Biologie, 13:295-8
Stanovení moze viditelnosti pro
jednotlivé části světelného spektra ve
vodě (Determination of transparency
of water in different spectral ranges).
Ru Do

Description of a method for determination
of transparency with colored Secchi
discs. Comparison of the results with
Pulfrich photometer.

FAO:tl

F

Rodina, A.G. (1957) 580712
Zool.Zh., 36:337-43
(The possibility of using the radioactive
tracer method for the solution of the
food selection problem in aquatic
animals). Ru

Methods and results of feeding bacteria
cultured on media containing P³² to
spp. of Daphnia, Planorbis, Bithynia,
Limnaea, Corotus, Bulinus, Tendipes and
Procladius larvae, and enchytraeid worms.

:sjh

F

Larson, K. (1958) 580710
Dansk Fisketid., 76:353-4
Forsøgsudsætning af ørred (Test
with transplantation of trout)

Note on the transplantation of trout
into Danish coastal waters and
instructions for returning the tags of
captured fish.

FAO:tl

MF

Birkett, L. (1958) 580713
Fish.Lab., Lowestoft (mimeo), 7 p.
The possibility of using the radioactive
tracer method for the solution of the
food selection problem in aquatic
animals

English translation of 580712.

FiB:

F

Rees, W.J. (1957) 580711
In "The scallop: studies of a shell and
its influence on humankind" by Cox, I.
(Ed.), Shell Transport & Trading Co.,
Ltd., 15-32
The living scallop

Essay, with many colour ill., on the
nomenclature, anatomy, ecology and
behaviour of Pecten opercularis, with
general biological reference also to
P. maximus.

GLK:sjh

M

Florida State University. The 580714
Oceanographic Institute (1958)
Tallahassee, 11 p.
Annual report for the fiscal year 1956 -
1957

Staff, facilities, summaries research by
faculty & visitors; list of contributions;
instruction and courses given;
conferences, financial support. Appendix
gives complete list of publications from
1950, and dissertations.

GLK:sjh

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Aasen, O.		580510	Calvin, M.		580280
Aasen, O. & F.R. Jones		580511	Canada. Dominion Bureau of		
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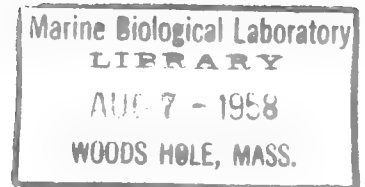
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[2.1(2)]



Errata

580559 Bybelin should read: Nybelin
580590 patter_ " " pattern

The corrections above are for errors we have found whilst indexing the third issue of the Bibliography. Would anyone finding others that we have overlooked please let us know by postcard.



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<i>Xiphopeneus</i>		580322

AFRICA			580287
Libya			580255
Kenya			580488
Uganda	580242		580672
Nigeria	580262		580285
French Equatorial Africa	580246		580533
Belgian Congo			580696
Federation of Rhodesia and Nyasaland			580320
Heard and McDonald Is.	580332		580331
NORTH AMERICA			
<u>Canada</u>	580314	580315	580316
	580355	580356	580483
	580484		
Quebec	580649	580651	580652
New Brunswick			580462
Nova Scotia			580462
<u>Alaska</u>			580693
Pribilof Is.			580537
<u>United States of America</u>	580306	580469	580506
	580692	580480	
Washington State			580633
Oregon	580296	580298	580450
	580451	580452	580454
	580536		
California	580289	580290	580291
	580441	580442	580466
	580467	580493	580564
	580636		
Iowa			580310
Illinois			580642
Louisiana			580489
USA, New England			580490
New York			580490
Maryland			580472
Virginia	580308	580349	580350
	580351	580352	580354
	580459	580481	580482
	580307		
USA, South Atlantic States	580240		580317
South Carolina			580479
Georgia			580231
Florida	580322	580324	580413
	580714		
<u>Greenland</u>			580228
LATIN AMERICA			
			580460
Mexico			580464
Honduras			580234
<u>Caribbean Is.</u>			580670

Haiti			580667
Venezuela			580668
Surinam			580486
Chile			580229
ASIA			
			580323
Lebanon			580669
Israel	580619	580620	580622
	580625	580635	
West Pakistan			580378
India	580335	580345	580491
	580495	580584	580585
	580586		
Japan	580372	580485	580487
	580497	580498	580499
	580500	580501	580502
	580504	580524	580587
	580588	580591	580599
	580601	580602	580603
	580604	580605	580607
	580608	580609	580610
	580611	580612	580613
	580614	580598	
Japan, Hokkaido	580226	580496	
EUROPE			
Denmark	580334	580616	580710
Norway	580249	580278	580465
Sweden	580370	580417	580419
Finland			580661
France	580258	580539	580253
Ireland			580562
United Kingdom	580264	580548	580554
	580565	580666	580225
	580697		
Scotland		580632	580268
Italy			580257
Turkey	580357	580358	580359
	580360	580653	580654
	580655	580656	580657
			580522
Germany Federal Republic of Germany	580363	580364	580365
OCEANIA			
<u>Australia</u>	580282	580313	580507
	580553	580283	
Western Australia		580420	580545
Queensland			580284
Tasmania			580321
Macquarie I.			580331
<u>New Zealand</u>			580340
N. and S. Is.			580659

French Oceania			580463
<u>Hawaiian Is.</u>	580297	580376	580377

UNION OF SOVIET SOCIALIST
REPUBLICS

<u>Russian F.S.S.R.</u>			
	580568	580572	580574
	580674	580675	580676
	580677		

ATLANTIC OCEAN

<u>Atlantic, North</u>	580294	580295	580617
Atlantic,	580312	580444	580445
North-west	580446	580447	580448
	580474	580628	

Gulf of			
St. Lawrence			580650
Chesapeake Bay		580443	580468
Atlantic,	580228	580272	580278
North-east	580325	580326	580361
North Sea	580276	580367	580512
	580513	580515	580516
	580517	580518	580519
	580520		

Baltic Sea			580248
<u>Atlantic, South</u>	580309	580578	580579
	580580		
Atlantic,	580305	580457	580461
South-west	580477	580478	580563
	580582		

Gulf of Mexico		580293	580631
Caribbean Sea			580700
Mediterranean Sea			580256
Mediterranean Sea,			
Eastorn	580348	580615	580623
	580624		
Adriatic Sea			580546
Black Sea		580567	580571
Gulf of Guinea			580224

INDOPACIFIC OCEAN

<u>Pacific, North</u>	580281	580288	580299
	580300	580301	580302
	580303	580379	580380
	580449	580455	580456
	580476	580526	580529
	580683		

Sea of Okhotsk			580267
Bering Sea			580527
Indopacific,	580558	580590	580592
Central	580593		
Pacific,			
South-east			580252

POLAR SEAS

<u>Arctic Ocean</u>	580244	580250	580570
South Polar			
Seas	580237	580241	580532

INLAND SEAS AND INTERTERRITORIAL
LAKE SYSTEMS

East African	580424	580425	580426
Lakes	580427	580428	580429
	580430	580431	
American Great	580292	580470	580471
Lakes	580629		

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Notes and Personalia

Contains note on expedition of A.A. JAKKULA of Dept. Oceanography and Meteorology of A and M College of Texas in SW G. of Mexico, 2-3/57; establishment of oceanographic stations in Pacific at 3200-4700m by Scripps Institution.

TL:sjh M

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Photosynthetic activity of fragments of Spirogyra chloroplasts - II. Measurements with the mass spectrometer

A note on laboratory experiments to measure photosynthetic O₂ liberation, CO₂ consumption and assimilatory quotient for spp. from 2 different habitats.

FAO:sjh F

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TL:sjh MF

Schoffoniels, E. & D. Nachmansohn (1957) 580719

Biochim.biophys.Acta, 26(1):1-15
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Experimental study of physiological chemistry of the electric organ of Electrophorus electricus.

FAO:sjh F

Tibbs, J. (1957) 580717
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The nature of algal and related flagella

Electron microscopy and biochemical study of flagellae of Chlorophyceae (Polytoma uvella & Chlorogonium elongatum) and spermatozoa of Salmo trutta, Perca fluviatilis and Salvelinus sp. Comparison with other studies in literature refer to Anodonta, Mytilus and Paramoecium cilia.

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FAO:sjh F

<p>Davis, P.S. (1957) 580721 <u>Rep.Div.Fish.Oceanogr.C.S.I.R.O., (7):9 p.</u> A method for the determination of chlorophyll in sea-water</p> <p>Description of sampling and analytical methods for the spectrophotometric determination of chlorophyll <u>a</u> in sea water. Description of a new water sampler and continuous centrifuge. Discussion of the inadequancies of the methods of chlorophyll analysis.</p>	<p>Chau, Y.K. (1957) 580724 <u>Rep.Div.Fish.Oceanogr.C.S.I.R.O., (13):</u> The coastal circulation of New South Wales from drift card results 1953-56</p> <p>The results of the drift card programme from 1953-56 carried out by C.S.I.R.O. Div. of Fisheries & Oceanography are summarized & statistically analysed in an attempt to correlate them with the coastal circulation in New South Wales. Recommendations about the limitations of the present programme and suggestions for supplementary studies are discussed.</p>
<p>FAO:tl M</p> <p>Hamon, B.V. (1957) 580722 <u>Rep.Div.Fish.Oceanogr.C.S.I.R.O., (9):</u> 16 p. Mean sea level variation on the coast of New South Wales</p> <p>The effects of atmospheric pressure, wind, currents, and water density on sea level at Sydney have been examined.</p>	<p>FAO:tl M</p> <p>Lund, S. (1958) 580725 <u>Ms</u> Exact title unknown</p> <p>Paper on productivity of freshwaters submitted to the Symposium organized by the Institute of Biology.</p>
<p>FAO:tl M</p> <p>Australia.Division of Fisheries & Oceanography (1957) 580723 <u>Rep.Div.Fish.Oceanogr.C.S.I.R.O., (12):</u> <u>F.R.V. DERWENT HUNTER - Scientific report of cruise 6/56, December 29, 1956 to February 11, 1957</u></p> <p>Itinerary; scientific results in hydrography, with emphasis on occurrence of different water masses and general circulation; abundance of phyto- and zooplankton and list of spp.; notes on occurrence of tuna.</p>	<p>:sjh F</p> <p>Lo Cron, E.D. (1958) 580726 <u>Ms</u> Exact title unknown</p> <p>Paper on production of fish submitted to the Symposium organized by the Institute of Biology.</p>
<p>FAO:tl M</p>	<p>:sjh F</p>

<p>Prus-Chacinski, T.M. (1958) 580727 <u>New Scient.</u>, 4(79):16-8 Why do rivers meander?</p> <p>Review of this aspect of hydrology and river engineering, with comment on recent Russian work on the subject.</p> <p>FAO:sjh MF</p>	<p>Brémond, M.J.-C. (1958) 580730 <u>C.R.Acad.Sci.</u>, Paris, 246:2674-7 Contribution à l'étude du peuplement de la zone intercotidale par les Cirripèdes du genre <u>Chthamalus</u> (Contribution to the study of the occupation of the intertidal zone by cirripedes of the genus <u>Chthamalus</u>)</p> <p>Reports observations made in the Mediterranean (Banyuls-sur Mer) on the analogy between relative population densities of 2 closely related spp., <u>C. stollatus</u> and <u>C. depressus</u>; and the distribution of vertical velocity components of swell which periodically submerges the littoral rock.</p> <p>FAO:sjh M</p>
<p>Ivanoff, A. (1958) 580728 <u>C.R.Acad.Sci.</u>, Paris, 246:2636-9 A sujet de l'utilisation d'un diagramme taux de polarisation de la lumière diffusée-coefficient de diffusion pour caractériser les masses d'eau océanique (On the use of a diagram for the relation of polarization of diffused light to the diffusion coefficient to characterise oceanic water masses)</p> <p>Description of the apparatus, and some results obtained in the Mediterranean.</p> <p>FAO:sjh M</p>	<p>Committee for the Protection of N.Pacific Fisheries (1958) 580731 <u>Seattle, Washington</u>, 22 p. Japan's high seas salmon fishing - What are the plain facts?</p> <p>Short popular review of history of <u>Oncorhynchus</u> fishery; catches; treaty obligations; research carried out; future action recommended for conservation of these stocks.</p> <p>FiB:sjh MF</p>
<p>Magno, M.F. (1958) 580729 <u>C.R.Acad.Sci.</u>, Paris, 246:2641-3 Les réserves lipidiques des Rhodophycées (Lipid reserves in Rhodophytes)</p> <p>A short review on accumulations in reproductive parts in various spp.; form of storage.</p> <p>FAO:sjh M</p>	<p>Carter, N.M. & W.M. Ricker (1958) 580732 <u>Circ.biol.Sta.Nanaimo</u>, (47):50 p. Index and list of titles for the Circulars and Industrial Memoranda issued by the Stations and Units of the Fisheries Research Board of Canada, 1935-1957</p> <p>Addresses of research stations in Canada; titles of series; titles in each series; author, species and subject indexes.</p> <p>FiB:sjh MF</p>

<p>Fleming, A.M. & M.E.Prouse (1957) 580733 <u>Circ.biol.Sta.St.John</u>, (4):25 p. I. Summary report of groundfish investigations for 1956 - II. Groundfish landings in Newfoundland, 1956</p> <p style="text-align: right;">M</p>	<p>Martin, W.R. & G.J.W. 580736 Sullivan (1957) <u>Circ.Atlant.biol.Sta.statist.Ser.</u>, (9): 1955 landings of Atlantic groundfish in Canada (excluding Newfoundland)</p> <p style="text-align: right;">M</p>
<p>Martin, W.R. & G.J.W. 580734 Sullivan (1957) <u>Circ.Atlant.biol.Sta.statist.Ser.</u>, (7): 9 p. 1953 landings of Atlantic groundfish in Canada (excluding Newfoundland)</p> <p style="text-align: right;">M</p>	<p>Kelcher, J.J. (1957) 580737 <u>Circ.biol.Sta.Ont.</u>, (1):2 p. The researcher</p> <p style="text-align: right;">F</p>
<p>Martin, W.R. & G.J.W. 580735 Sullivan (1957) <u>Circ.Atlant.biol.Sta.statist.Ser.</u>, (8): 9 p. 1954 landings of Atlantic groundfish in Canada (excluding Newfoundland)</p> <p style="text-align: right;">M</p>	<p>Taylor, F.H.C. (1957) 580738 <u>Circ.biol.Sta.Nanaimo</u>, (45):6 p. Prospects for the 1957-58 herring fishing season</p> <p style="text-align: right;">M</p>

<p>Outram, D.N. (1957) 580739 <u>Circ.biol.Sta.Nanaimo</u>, (46):12 p. <u>Extent of herring spawning in British Columbia in 1957</u></p> <p>Third on an annual series dealing with spawning success of <u>Clupea pallasii</u> stock. Map; method of spawn census & tabulated results with discussion.</p> <p>FAO:sjh M</p>	<p>Ahlstrom, E.H. (1957) 580742 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (208):44-73 A review of recent studies of Pacific fish subpopulations</p> <p>Contribution to symposium on this subject (581145) Examines results of all techniques applied to <u>Clupea pallasii</u>, <u>Neothunnus macropterus</u>, <u>Germo alalunga</u>, <u>Pneumatophorus diogo</u>, <u>Ingraulis mordax</u>, <u>I. australis</u>, <u>Cotengraulis mysticetus</u>, <u>Stolephorus purpurus</u>.</p> <p>FAO:sjh M</p>
<p>Adams, R.D. (1957) 580740 <u>Nature, Lond.</u>, 180:778-80 <u>Exploration of the deep ocean floor</u></p> <p>Review of the discussions on the exploration of the deep ocean by BAAS. The exploration method included seismic refraction shooting, underwater photography, the analysis of magnetic spherules found in deep-sea sediment and the examination of the ocean by manned bathyscaphs.</p> <p>GLK:tl II</p>	<p>Ahrens, E. (1957) 580743 <u>Int.hydr.Rev.</u>, 34(2):77-86 <u>Emploi du sondage horizontal pour la localisation des épaves</u> (Use of horizontal sounding for the location of wrecks)</p> <p>Examination of particular conditions encountered in such work, with special reference to shallow waters; the Lodar made by Elac is described and results of its use are reported.</p> <p>FAO:glk M</p>
<p>Agcitos de Castellanos, Z.J. (1957) 580741 <u>Buenos Aires</u>, 12 p. <u>Los mitilidos Argentinos</u> (Mytilids of Argentina)</p> <p>M</p>	<p>Aksiray, F. (1957) 580744 <u>Balik Balikçilik</u>, 5(5):9-14 (Artificial fertilization of trout in the Lake Abant). <u>Tü</u></p> <p>Details on trout breeding by artificial fertilization.</p> <p>SJH:sjh F</p>

<p>Neumann, G. & W.J. 580745 Piorson, Jr. (1957) <u>Dtsch.hydrogr.Z.</u>, 10:73-92 A detailed comparison of theoretical wave spectra and wave forecasting methods. Fr Do</p> <p>Theoretical wave spectra are compared with observed spectrum. Observations of waves for one intense storm are compared with forecasts made by various methods.</p> <p>FAO:tl M</p>	<p>Stocks, Th. (1957) 580748 <u>Dtsch.hydrogr.Z.</u>, 10:112 On the Norwegian continental terrace, primarily outside Mjoro-Romsdal: its geomorphology and sediments. <u>De</u></p> <p>Review of original article by Holtedahl, H., 1955, <u>Årb.Univ.Bergen Naturvitensk.</u>, (14).</p> <p>FAO: M</p>
<p>Walden, H. & J. Piest (1957) 580746 <u>Dtsch.hydrogr.Z.</u>, 10:93-9 Beitrag zur Frage des Wellenspektrums in der Windsee (Contribution to the question of the ocean wave spectrum in the wind sea). En Fr</p> <p>Discussion of the inaccuracies and errors in several publications concerned with wave spectra.</p> <p>FAO:tl M</p>	<p>Fuglister, F.C. (1957) 580749 <u>Woods Hole Oceanographic Instn, Reference No. 57-54</u>, 129 p. Oceanographic data from CRAWFORD cruise ton obtained for the International Geophysical Year of 1957-58</p> <p>Tabulated and graphical (sections) hydrographic data, reproduction of slides and data on chlorophyll, and C14 measurements.</p> <p>TL:tl M</p>
<p>Kalle, K. (1957) 580747 <u>Dtsch.hydrogr.Z.</u>, 10:99-108 Ein einfaches Klein-Aräometer zur exakten Bestimmung des Salzgehaltes im Meerwasser (A simple small-type areometer for the precise determination of salinity in sea water). En Fr</p> <p>Description of the areometer, its use and accuracy.</p> <p>FAO:tl MF</p>	<p>Bogorov, B.G. (1957) 580750 <u>Année biol.</u>, 33:299-315 Unification of plankton research</p> <p>Mainly a biological account of collecting methods and detg. mean size and wt. of marine plankton. Methods for detg. the O content of samples of water containing plankton are considered.</p> <p>:sjh M</p>

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Effects of oxygen upon light absorption
by green algae

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Ishimatsu, K. (1957) 580754
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Chemistry of seaweeds. I. Chlorophyceae
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M

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Univ.Microfilms Publ., (23194):139 p.
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<p>Lallier, R. (1957) 580757 <u>C.R.Soc.Biol., Paris</u>, 151:471-4 Porchlorate and ombryonal development of echinodcrms</p>	<p>Rosenthal, H.L. (1957) 580760 <u>Science</u>, 126:699-700 Uptake of calcium-45 and strontium-90 from water by fresh-water fishes</p> <p>Comparative experimental study of <u>Lebistes</u>, <u>Danio</u> & <u>Tanichthys</u>, with comments on reports in literature regarding other spp., including marine.</p>
<p>Hardisty, M.W. (1957) 580758 <u>J.exp.Biol.</u>, 34:237-52 Osmotic conditions during the ombryonic and early larval life of the brook lamprey (<u>Lampetra planeri</u>)</p>	<p>Burgor, J.W. (1957) 580761 <u>Biol.Bull.Woods Hole</u>, 113:207-23 The general form of excretion in the lobster, <u>Homarus</u></p> <p>Method for securing repeated samples of urine from <u>Homarus americanus</u>; experimental study of a variety of organic and inorganic substances in urine and discussions of the mechanism of regulation of the internal environment of the species.</p>
<p>Sugino, Y. & al. (1957) 580759 <u>Biochim.biophys.Acta</u>, 26:453-4 Deoxyribosidic compounds of sea-urchin eggs</p> <p>Chemical analysis of eggs of <u>Hemicentrotus pulcherrimus</u>.</p>	<p>Dómcusy, N. (1957) 580762 <u>Biol.Bull.Woods Hole</u>, 113:245-53 Respiratory metabolism of the fiddler crab <u>Uca pugilator</u> from two different latitudinal populations</p> <p>Comparisons at a given temperature of the metabolism of <u>Uca pugilator</u> and <u>Uca</u> <u>pugnax</u>, measured as oxygen uptake, and observations of their activity in and resistance to cold.</p>

<p>Yamamoto, G. (1957) 580763 <u>Sci.Rep.Tohoku Univ.</u>, 23:73-82 Tolerance of scallop spats to suspended silt, low oxygen tension, high and low salinities, and sudden temperature changes</p> <p style="text-align: right;">M</p>	<p>Maggio, R. & A. Naselli (1957) 580766 <u>Pubbl.Staz.zool.Napoli</u>, 30(1):101-8 The action of sea-urchin sperm on a lipoprotein</p> <p style="text-align: right;">M</p>
<p>Barnes, H. (1957) 580764 <u>Année biol.</u>, 33:67-85 The spring diatom increase and the spawning of the common barnacle <u>Balanus balanoides</u></p> <p style="text-align: right;">M</p>	<p>Mossina, L. (1957) 580767 <u>Pubbl.Staz.zool.Napoli</u>, 30(1):127-31 The chemical nature of the perivisceral fluid of the sea-urchin</p> <p style="text-align: right;">M</p>
<p>Kinne, O. (1957) 580765 <u>Année biol.</u>, 33:87-92 Comparative biology of marine and brackish water animals</p> <p style="text-align: right;">MF</p>	<p>Ham, R.G. (1957) 580768 <u>Univ.Microfilms Publ.</u>, (23037):124 p. Biochemical study of regeneration in hydra</p> <p style="text-align: right;">F</p>


<p>Gourin, J.W. & H.G. Jeffery (1957) 580769 <u>Arkans.Univ.Eng.exp.Sta.Bull.</u>, (25):79 p. Chemical quality of surface waters of Arkansas, 1945-55. A summary</p>	<p>Loeblich, A.R. & al. (1957) 580772 <u>Bull.U.S.nat.Mus.</u>, (215):323 p. Studies in foraminifera</p> <p>Contains numerous articles on benthic and planktonic foraminifera; taxonomic descriptions, and plates for identification.</p>
<p>Lebedeva, M.N. (1957) 580770 <u>C.R.Acad.Sci.U.R.S.S.</u>, 115:186-9 Kolichestvennoe raspredelenie i biomassa mikroorganizmov v kislородnoi zone Chernogo moria (Quantitative distri- bution and the biomass of micro- organisms in the oxygen zone of the Black Sea)</p> <p>Amount & distribution of plankton in the N.E. port of the Black Sea, determined by the method of filtering through membranous ultrafilters.</p>	<p>Rosenberg, A. (Comp.) (1957) 580773 <u>U.S.Library of Congress, Washington</u>, 513p. Russian abbreviations - A selective list</p> <p>New second revised and expanded edition of "Russian abbreviations, a selective list", 1952. Abbreviations in alphabetical order, followed by full Russian name or word(s) and English translation. Transliteration system that of U.S. Board on Geographic Names. Many abbreviations of words, phrases and titles of fisheries interest.</p>
<p>Pera, F. (1957) 580771 <u>Latv,PSR Zinat.Akad.Vestis</u>, (7):93-106 The conditions for the fixation of free nitrogen in the lakos of the Latvian S.S.R. II. The fixation conditions for free nitrogen in the bottom deposits</p>	<p>Kott, P. (1957) 580774 <u>Rep.Div.Fish.Oceanogr.C.S.I.R.O.</u>, (14): 33 p. Zooplankton of east Australian waters, 1945-54</p> <p>List of spp.; local occurrence, seasonal distribution and annual variations in zooplankton.</p>

<p>Walden, H. & H.G. Farmer (1957) 580775 <u>Dtsch.hydrogr.Z.</u>, 10:121-34 Auswertung von Seegangregistrierungen des Forschungsschiffes ATLANTIS mit dem 'ship-borne wave recorder' sowie Vergleich mit entsprechenden Seegangsberechnungen aus den Windverhältnissen (hindcasting) (Evaluation of sea records obtained from the 'ship-borne wave recorder' on board the research vessel ATLANTIS and comparison with corresponding wave computations from wind conditions). En Fr</p> <p>Analysis of wave records by 2 methods & comparison of the measured spectrum with the spectrum hindcast by use of</p>	<p>Rodewald, M. (1957) 580778 <u>Dtsch.hydrogr.Z.</u>, 10:147-51 Beiträge zur Klimaschwankung im Meere - 8. Die Temperaturen der pazifischen Küstengewässer Nordamerikas von 1920 bis 1955 (Contributions on climatic fluctuations in the ocean. 8. Temperatures of surface waters on the Pacific coast of North America, 1920-55). En Fr</p> <p>Presents recent five-year mean values of sea-surface temperatures for a period of at least thirty years (including 1955). Comparison with temperatures in N. Atlantic. FAO:tl M</p>
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<p>580775 (Card 2) various existing formulae.</p> <p>FAO:tl M</p>	<p>Rodewald, M. (1957) 580779 <u>Dtsch.hydrogr.Z.</u>, 10:151-7 Beiträge zur Klimaschwankung im Meere. 9. Das kalte pazifische Jahr 1955 (Contribution on climatic fluctuations in the ocean. 9. The cooling of the surface waters in the Pacific Ocean in 1955). En Fr</p> <p>Surface waters were characterized by a negative anomaly of immense extension and strong persistency. Its distribution in space and its development in time are roughly outlined.</p> <p>FAO:tl M</p>
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<p>Neumann, G. & W.J. 580777 Pierson, Jr. (1957) <u>Dtsch.hydrogr.Z.</u>, 10:134-46 A detailed comparison of theoretical wave spectra and wave forecasting methods</p> <p>Continuation of 580745.</p> <p>FAO:tl M</p>	<p>De Graaf, Fr. (1957) 580780 <u>Hydrobiologia</u>, 9(2-3):210-317 The microflora and fauna of a quaking bog in the nature reserve 'Het Hol' near Kortenhoeft in the Netherlands</p> <p>Ecology of three zones with qualitative and quantitative differences in the microbiocoenoses of the different stages of succession.</p> <p>FAO:tjj F</p>
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<p>Iselin, C.O'D. (1957) 580781 <u>Oceanus</u>, 5(3-4):3-11 Synoptic studies in oceanography</p> <p>Preliminary results of the oceanographic cruises of Woods Hole vessels during IGY.</p> <p>FAO:t1 M</p>	<p>Veronis, G. (1957) 580784 <u>Oceanus</u>, 5(3-4):19-25 Thermal circulation</p> <p>Short review of ocean circulation theories and notes on unsolved problems of circulation and their principal causes.</p> <p>FAO:t1 M</p>
<p>Deacon, G.W.R. (1957) 580782 <u>Oceanus</u>, 5(3-4):13-6 The pinger</p> <p>Preliminary results of the study of deep water currents in N. Atlantic by the use of a neutrally buoyant float.</p> <p>FAO:t1 M</p>	<p>Revollo, R. (1957) 580785 <u>Oceanus</u>, 5(3-4):26-36 Sun, sea and air</p> <p>Popular review of heat exchange between sea and atmosphere, and long-term temperature changes on the earth.</p> <p>FAO:t1 M</p>
<p>W.E.S. (1957) 580783 <u>Oceanus</u>, 5(3-4):17 A breaching humpback</p> <p>Note on an unusual photograph of a humpback whale jumping.</p> <p>FAO:t1 M</p>	<p>Anonymous (1957) 580786 <u>Oceanus</u>, 5(3-4):37-9 The Woods Hole Oceanographic Institution in the International Geophysical Year</p> <p>Review of the oceanographic projects of the institute during IGY.</p> <p>FAO:t1 M</p>

<p>Pakistan, Central Fisheries 580787 Department (1957) <u>Karachi</u>, 31 p. First, second and third reports on the working of the Central Fisheries Department for the period 1st January, 1951 to 30th March, 1956</p> <p>Brief notes on governmental activities in administration, development and research.</p> <p>GLK:glk</p>	<p>Soeriaatmadja, Rd.E. (1957) 580790 <u>Mar.Res., Indonesia</u>, (3):41-55 The coastal current south of Java</p> <p>Discussion of the seasonal variations in the direction and speed of the current and its mass transport. Other oceanographic elements in the area, especially surface salinities are discussed.</p> <p>FAO:tl M</p>
<p>Bruun, A.F. & A. Kiilerich (1957) 580788 <u>Mar.Res., Indonesia</u>, (3):1-6 Bathymetrical features of the Bali-Lombok Strait</p> <p>Discussion of the bathymetric features of the strait in connection with past changes of sea level.</p> <p>FAO:tl M</p>	<p>Anonymous (1957) 580791 <u>Mar.Res., Indonesia</u>, (3):57-69 Oceanographic station list 1957</p> <p>Tabulated oceanographic data obtained by SAMUDERA in 1957, south of Java, in the Flores Sea, Timor Sea and Banda Sea.</p>  <p>FAO:tl M</p>
<p>Wyrcki, K. (1957) 580789 <u>Mar.Res., Indonesia</u>, (3):7-40 Precipitation, evaporation and energy exchange at the surface of the south-east Asian waters</p> <p>Computation of annual heat budget for 15 locations in southeast Asian waters. Basic data for computation are given in tables.</p> <p>FAO:tl M</p>	<p>Kort, V.G. (1957) 580792 <u>Bull.Acad.Sci.U.R.S.S.(Géogr.)</u>, (2):3-12 Osnovnye rezul'taty pervogo reisa morskoi antarkticheskoi ekspeditsii Akademii nauk SSSR (Chief results of the First Antarctic Expedition of the Academy of Sciences of the USSR)</p> <p>Review of the oceanographic work done by Russian expedition and notes on vessels.</p> <p>FAO:tl M</p>

<p>Løvorsen, R. (1957) 580793 <u>Fiskeridir. Småskr.</u>, (4):18 p. Forsøk med dyrking av blåskjell (Trial cultivation of edible mussels)</p> <p>Investigation of the possibilities of culture of <u>Mytilus edulis</u> in Norway and growth of the mussel in various localities along the coast.</p>	<p>Western Australia. Fisheries Department (1958) 580796 <u>Monthly Service Bulletin</u>, 7(2):11-26</p> <p>Records of occurrence and suggestion for long-lining fishing at depth.</p>
<p>Robinson, M.K. (1957) 580794 <u>Bull. Scripps Instn Oceanogr.</u>, 7(1):98 p. Sea temperature in the Gulf of Alaska and in the northeast Pacific Ocean, 1941-1952</p> <p>Analysis of 16,103 BT and 129 serial reversing thermometer observations, presented in monthly charts of average temperature for 100 foot levels fr. 0-400 feet. Charts of annual temperature cycles, temperature sections and statistical analysis of temperature variation in three locations.</p>	<p>Miles, C. (1958) 580797 <u>Cart. Amicos, F.A.O.</u>, 1(2):42 p. Carta a los amigos (Letter to friends)</p> <p>Gives miscellaneous information on recent fishery developments and trends in the Latin American countries.</p>
<p>Bumpus, D.F. (1957) 580795 <u>Spec. sci. Rep. U.S. Fish Wildl. Serv.</u>, (233):132 p. Oceanographic observations, 1956, east coast of the United States</p> <p>The daily water temperature & salinity observations from 16 locations along the Atlantic seaboard during 1956 are tabulated and discussed. Diagrams of the one-third monthly means are presented.</p>	<p>Spence, W.G. (1958) 580798 <u>Miss. Game Fish</u>, 21(9):9-10 Mass fish kills</p> <p>A popular article explaining why mass mortalities occur in natural waters and artificial ponds.</p>

<p>Hamilton, R.A. (1958) 580799 <u>Nature, Lond.</u>, 181:1030-2 The British North Greenland expedition, 1952-54 - Scientific results</p> <p>Includes note on <u>Salvelinus alpinus</u> collected from <u>Britannia Sϕ</u>, which exhibit marked stunting.</p> <p>GLK:sjh F</p>	<p>Grosch, D.S. (1958) 580802 <u>Nature, Lond.</u>, 181:1078 Foulgen-positive cytoplasm of <u>Molgula</u> eggs</p> <p>Contents as per title.</p> <p>GLK: M</p>
<p>Anonymous (1958) 580800 <u>Nature, Lond.</u>, 181:1032-7 Colonial research, 1956-57</p> <p>Includes summary of the Colonial Office Annual Report on Fisheries Research, 1956-57.</p> <p>GLK:sjh MF</p>	<p>Crisp, D.J. & B.S. Patel (1958) 580803 <u>Nature, Lond.</u>, 181:1078-9 Relation between breeding and ecdysis in cirripedes</p> <p>Observations on moulting in <u>Balanus</u> <u>balanoides</u> (L.), <u>Balanus balanus</u> (L.) (= <u>B. porcatus</u> da Costa), <u>Balanus crenatus</u> Brugi\grave{e}re, <u>Balanus perforatus</u> Brugi\grave{e}re, <u>Elminius modestus</u> Darwin and <u>Chthamalus</u> <u>stellatus</u> Poli, and some theories on its function.</p> <p>GLK:wad M</p>
<p>Mohsen, T. (1958) 580801 <u>Nature, Lond.</u>, 181:1074 Masculinizing action of progesterone on female gonads in the Cyprinodont, <u>Lebistes reticulatus</u> R.</p> <p>GLK: F</p>	<p>Kirkegaard, J.B. (1958) 580804 <u>Nature, Lond.</u>, 181:1086-7 Records of the group Pongophora in the Skagerrak</p> <p>Another record of <u>Siboglinum ekmani</u> found in 1957.</p> <p>GLK:wad M</p>

<p>Atkins, D. (1958) 580805 <u>Nature, Lond.</u>, 181:1087 <u>British pea-crabs (Pinnotheres)</u></p> <p>Various observations on the biology of <u>P. pisum</u> and <u>P. pinnotheres</u> from the British Isles.</p> <p>GLK:wad M</p>	<p>Klawe, W.L. & L.M. Dickie (1957) 580808 <u>Bull.Fish.Res.Bd Can.</u>, (115):37 p. <u>Biology of the bloodworm Glycera dibranchiata</u> Ehlers, and its relation to the bloodworm fishery of the Maritime Provinces</p> <p>Methods of investigations, ecological observations, life history and the commercial fishery.</p> <p>GLK:tl M</p>
<p>Grainger, J.N.R. (1957) 580806 <u>Proc.R.Irish Acad.</u>, 58B:305-19 Preliminary observations on the diurnal migration of the crustacea in the plankton of Gouganebarra Lake</p> <p>F</p>	<p>Sverdrup, H.U. (1957) 580809 <u>Skr.norsk Polarinst.</u>, (111):11 p. The stress of the wind on the ice of the Polar Sea</p> <p>M</p>
<p>Inter-American Tropical Tuna Commission (1957) 580807 <u>La Jolla</u>, 112 p. Annual Report for the year 1956</p> <p>A report on the activities and scientific investigations conducted by the Commission.</p> <p>HR:hr MF</p>	<p>Liestøl, O. (1957) 580810 <u>Skr.norsk Polarinst.</u>, (81):29 p. Glacier damned lakes in Norway</p> <p>F</p>

<p>Raven, Ch.P. (1958) 580811 287 p. Morphogenesis: the analysis of molluscan development</p> <p>Reference book centred on causal analysis of morphogenesis, with emphasis on cytological and cytochemical aspects. Full bibliography.</p>	<p>Larsen, B. & A. Haug (1958) 580814 <u>Nature, Lond.</u>, 181:1224 Chemical composition of the brown alga <u>Ascophyllum nodosum</u> (L.) Le Jol</p> <p>Presence of reducing compounds in <u>Ascophyllum nodosum</u>.</p>
<p>FAO:sjh MF</p> <p>Schmidt-Nielsen, K. (1958) 580812 <u>Nature, Lond.</u>, 181:1217-8 Nasal salt secretion in the Humboldt penguin</p> <p>Osmoregulatory mechanism in <u>Spheniscus humboldti</u>, and also <u>Phalacrocorax auritus</u>, and its relation to alternative diets of fish or invertebrates.</p>	<p>Haug, A. & B. Larsen (1958) 580815 <u>Nature, Lond.</u>, 181:1224-5 Influence of habitat on the chemical composition of <u>Ascophyllum nodosum</u></p> <p>Comparisons of specimens from various Norwegian Fjords (Trondheim, Oslo, Follafjord).</p>
<p>GLK:sjh M</p> <p>Parry, G. (1958) 580813 <u>Nature, Lond.</u>, 181:1218-9 Size and osmoregulation in salmonid fishes</p> <p>Describes experiments with <u>Salmo salar</u>, <u>S. trutta</u> and <u>S. gairdneri</u> showing that tolerance to sea water and ability to regulate body fluids in high salinities depends upon the size of the fish as well as on its age and sp.</p>	<p>GLK:sjh M</p> <p>Allon, K.R. & B.T. 580816 Cunningham (1957) <u>Fish.Bull., Wellington, N.Z.</u>, (12):153 p. New Zealand angling, 1947-1952. Results of the diary scheme</p> <p>Collection & analysis of data; condition of stocks; angling effort & catches, effects of regulations for catch, size of fish & fishing method.</p>
<p>GLK:wad MF</p>	<p>FAO:sjh F</p>

Fukuhara, F.M. & G.K. 580817
Tanonaka (1958)
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A Japanese high-seas salmon fishery in
the North Pacific since 1952

History of development of this fishery
for Oncorhynchus spp.; fishing areas,
catches & efforts by sp., area, & month.

FAO:sjh

MF

Anonymous (1958) 580820
Comm.Fish.Rev., 20(4):25
Chesapeake Bay - Few young striped bass
migrate outside of Chesapeake Bay

FAO:

MF

Anonymous (1958) 580818
Comm.Fish.Rev., 20(4):22-3
California - Spawning salmon at record
low in 1957

FAO:

MF

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Columbia River - Silver salmon spawning
counts highest since 1951

FAO:

MF

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Comm.Fish.Rev., 20(4):23-4
California - Three types of shrimp
fishing nets tested

FAO:

M

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Gulf exploratory fishery program -
Experimental red snapper trawling trip
off Texas completed

FAO:

M

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North Atlantic fisheries investigations -
Contract for new fishery biological
laboratory at Woods Hole awarded

FAO: M

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Comm. Fish. Rev., 20(4):30
North Pacific fisheries investigations -
Vessel chartered for Bering sea king
crab studies

FAO: M

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North Atlantic fisheries investigations -
Multiplane kite otter and high-speed
plankton sampler tested

FAO: M

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Oregon - Nehalem river salmon migration
project completed

FAO: MF

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Survey of herring spawning and larval
drift interrupted

FAO: M

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Oysters - Raft culture of oysters shows
promise

FAO: M

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temperature charts released

FAO: M

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mid-ocean salmon

FAO: MF

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Skipjack tuna and live-bait sardines
found abundant in Marquesas

FAO: M

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Comm. Fish. Rev., 20(4):45-6
Virginia - Fisheries may be affected by
this winter's cold weather

FAO: M

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Pacific oceanic fishery investigations -
Tagged albacore tuna recovered in
Western Pacific

FAO: M

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negotiations for 1958

FAO: MF

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Fur seals of the Pribilof Islands

FAO: M

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Migrations of the horseshoe crab,
Limulus polyphemus, in Plum Island Sound,
Mass.

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A pesca do bacalhau - Campana de 1955-
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Methods, tabulation and discussion of
results.

GLK:glk M

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U.S. Federal Fishery Research on the
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Review of program & results since 1927;
sea lamprey studies & control; fishery
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statistics, publications, staff roster,
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Sindermann, C.J. (1957) 580840
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Diseases of fishes of the western north
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FAO:sjh F

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Purposes and methods in fishery
statistics - Report of the 1st Inter-
national Meeting on fishery statistics
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Papers on the need for fishery statistics
and the degree of accuracy required;
collection of the statistics; statistics
of fishing craft, fish-processing,
marketing & distribution, & of fishery
products in external trade; presentation
of fishery statistics with special
reference to international comparison.

SJH:glk

MF

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F.A.O., 1958, pp. 23-5
The importance of statistics for the
export of fish

Notes on the Danish system for
collection of export statistics.

SJH:glk

MF

Le Garrec, J. (1958) 580842
In "Purposes and methods in fishery
statistics", by Gerhardsen, G.M. (Ed.),
F.A.O., 1958, pp. 15-9
Les besoins en statistiques de l'industrie
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Brief discussion of uses made of
statistical data, and schedule of the
kinds of data to be collected.

SJH:glk

MF

Needler, A.W.H. (1958) 580845
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statistics", by Gerhardsen, G.M. (Ed.),
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The biologists' need for statistics

Discussion of the use of statistical
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regulation of fisheries, and a
description of the data on total catch,
fishing effort and sizes of fish that
should be collected.

SJH:glk

MF

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biological statistics).

Discussion of the information the
biologist wishes to draw from industrial
statistics.

SJH:glk

MF

Martin, W.R. (1958) 580846
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statistics", by Gerhardsen, G.M. (Ed.),
F.A.O., 1958, pp. 31-6
The statistical requirements of the
International Commission for the North-
west Atlantic Fisheries

Discussion of minimum statistical
requirements, the inadequacy of published
statistics, the possibility of obtaining
the statistics required, publication
and cooperation with other agencies.

SJH:glk

M

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Fishery statistics necessary for predicting catches and for determining optimum catches

SJH:

MF

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In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 73-81
Collection of fishery statistics, England and Wales

Description of the work of collection at ports, summarising the collectors' returns, operation of Holorith machines, and publications.

SJH:glk

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The commercial fishing statistics required for research and regulation of the North Sea demersal fisheries

Discussion of general and detailed requirements, and of collection analysis and presentation.

SJH:glk

M

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Description of a new system introduced by Denmark which gives information on total catch, value and weight of each sp., and on the catch of each boat, fishing water and port of landing.

SJH:glk

MF

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The collection of pelagic fish statistics

Discussion of requirements, statistics of effort and indices of abundance, statistics of drift-net, ring-net, purse-seine and trawl fisheries, area and time subdivisions, and of statistics collection in Scotland.

SJH:glk

M

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The Italian fishery statistics: collection of data and statistical investigations of the Italian fishery

Information on statistics collected of production, trade, economic structure of fisheries, net product, & on the programme for development of the collection of data.

SJH:glk

MF

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L'établissement de statistiques sur la Pêche en Italie et les difficultés résultant de la dispersion des marchés et des centres de production (The establishment of fishery statistics in Italy and the difficulties resulting from dispersion of the markets and centres of production)

SJH:

MF

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SJH:sjh

MF

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Fishery statistics in Sweden - Existing organization and planned improvements

SJH:

MF

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SJH:sjh

MF

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In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 107-11
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SJH:

M

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Reports verbal statement.

SJH:sjh

MF

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Le rôle présent et le rôle futur des statistiques économiques des pêches maritimes (Present and future rôle of economic statistics in marine fisheries)

SJH: M

Mesock, G. (1958) 580862
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Fishing fleet statistics of the federal Republic of Germany

SJH: M

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In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 130-5
Discussion on the methods of collecting statistics

SJH: MF

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Statistics on the fishing fleets

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SJH:sjh M

Angerman, H. (1958) 580861
In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 137-50
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SJH: M

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SJH: MF

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 Presentation of fishery statistics with special reference to international comparison - The statistical work of the International Council for the Exploration of the Sea (Ices) in retrospect

SJH: MF

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In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 230-1
 Statement about the FAO questionnaire on catch, landings, disposition and utilization

Text of a letter from author to Director of FAO Fisheries Division.

SJH:sjh MF

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SJH:sjh M

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SJH: MF

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SJH:sjh MF

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FiB:sjh MF

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Settlement of marine foulers and borers
in the Madras harbour in relation to
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Contribution to our knowledge of the
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hydrophytes. 8. Stem of Hygrophila
polysperma T. Anders

F

Velankar, N.K. (1958) 580872
Proc.Indian Acad.Sci., 47B:87-96
Inhibition of bacteria from marine
sources by aureomycin

M

Johnson, D.S. (1957) 580875
Malay.Nat.J., 12:57-65
Survey of Malayan freshwater life

A general essay on this project & report
on its progress.

GLK:sjh

F

Gandhi, H.P. (1957) 580873
Ceylon J.Sci.biol.Sci., 1:45-57
Fresh-water diatoms from Radhanagari-
Kolhapur

F

Prowse, G.A. (1957) 580876
Malay.Nat.J., 12:66-71
Fish and food chains

Brief note on inadequacy of present
knowledge of primary, secondary and
tertiary production in fresh water.

GLK:tjj

MF

<p>Jain, S.L. (1957) 580877 <u>Proc.nat.Acad.Sci.India</u>, 27B:26-30,53-63 Monogenea of Indian fresh water fishes. 5. <u>Dactylogyrus multispiralis</u> n.sp. (sub-family Dactylogyrinae) from the gill filaments of <u>Silondia silondia</u> (Ham.) from Lucknow, India. 6. Three new trematodes belonging to the genus <u>Neodactylogyrus</u> Price, 1938 (family Dactylogyridae), from some freshwater fishes of Lucknow, India</p>	<p>Ganguly, D.N. & B.N.Mitra (1957) 580880 <u>Geogr.Rev.India</u>, 19:26-30 Distribution of fry collection centres, methods of collection and the fry trade in the river Bhagirathi</p>
<p>Kirtisinghe, P. (1957) 580878 <u>Ceylon J.Sci.biol.Sci.</u>, 1:67-72 Vertebral column of the flatfish <u>Psettodes erumei</u> (Bloch and Schneider)</p>	<p>Davies, D.H. (1957) 580881 <u>Invest.Rep.Div.Fish.S.Afr.</u>, (30):40 p. The south African pilchard (<u>Sardinops ocellata</u>) - Preliminary report on feeding off the west coast, 1953-56</p> <p>Stomach contents analysis - quantities, types of organism; relation of composition of plankton in stomach to that in the sea.</p>
<p>Chacko, P.I., S. George & P.P. Krishnaswamy (1957) 580879 <u>Rep.Madras Fish.Statist.</u>, (53):29 p. Census of the sea fisherfolk and fishing crafts and gear in Madras State, 1957</p>	<p>Burrows, R.E. (1957) 580882 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (246) 11 p. Diversion of adult salmon by an electrical field</p> <p>Describes the "Entiat-type" electrical weir, the factors influencing its operation, the reaction of <u>Oncorhynchus</u> to its field and its application in salmon culture.</p>

<p>Halvor, J.E., D.C. DeLong & E.T. Mertz (1957) <u>J.Nutr.</u>, 63:95-105 Nutrition of salmonoid fishes. V. Classification of essential amino acids for chinook salmon</p> <p style="text-align: right;">580883</p> <p style="text-align: center;">MF</p>	<p>Shelbourne, J.E. (1957) <u>Nature, Lond.</u>, 180:920-2 Site of chloride regulation in marine fish larvae</p> <p style="text-align: right;">580886</p> <p style="text-align: center;">M</p>
<p>Merkens, J.C. & K.M. Downing (1957) <u>Ann.appl.Biol.</u>, 45:521-7 The effect of tension of dissolved oxygen on the toxicity of un-ionized ammonia to several species of fish</p> <p style="text-align: right;">580884</p> <p style="text-align: center;">F</p>	<p>Barnholdt, B. & W. Hjarde (1957) <u>Acta physiol.scand.</u>, 41:49-67 Chromatographic separation of five vitamin A₁ isomers from the eyes of deep-water prawns, <u>Pandalus borealis</u></p> <p style="text-align: right;">580887</p> <p style="text-align: center;">M</p>
<p>Potrenko, I.N. & A.A. Karasikova (1957) <u>Fish Ind., Moscow</u>, 33(10):62-3 Amino-acid composition of proteins of one-year-old carp and their foodstuffs</p> <p style="text-align: right;">580885</p> <p style="text-align: center;">F</p>	<p>Schlieper, C. (1957) <u>Année biol.</u>, 33:117-27 Comparative study of <u>Asterias rubens</u> and <u>Mytilus edulis</u> from the North Sea and the western Baltic Sea</p> <p style="text-align: right;">580888</p> <p style="text-align: center;">M</p>

Ramuz, A. (1957) 580889
Bull.Soc.vaud.Sci.nat., 66:369-75
Chemical composition of the waters of
Lake Lóman

F

Stal'makova, G.A. (1957) 580892
Trud.Lab.Ozcr.Acad.Nauk.U.R.S.S., 5:
198-269

The macrofauna in the mud of the glacial
lakes of the northwestern Russian Soviet
Federated Socialist Republic as a
function of their silt contents

F

Egorova, V.A. (1957) 580890
Trud.Inst.Okoanol., 21:137-64
Hydrochemical investigations in the
coastal zone of the northeastern part
of the Black Sea

M

Den'gina, R.S. (1957) 580893
Trud.Lab.Ozcr.Acad.Nauk.U.R.S.S., 4:
269-305

Hydrobiological data from the
investigation of the lakes of the north-
western part of the Amu-Darya delta

MF

Lopatin, G.V. (1957) 580891
Trud.Lab.Ozcr.Acad.Nauk.U.R.S.S., 4:
192-268
Hydrological data of the Amu-Darya delta

MF

Den'gina, R.S. (1957) 580894
Trud.Lab.Ozcr.Acad.Nauk.U.R.S.S., 4:
306-48

Hydrobiological survey of the Gulf of
Adzhibaï of the Aral Sea in 1953

M

Lackey, J.B. (1957) 580895
U.S. Atomic Energy Commission, ORNL-2410,
25 p.

The suspended microbiota of the Clinch River and adjacent waters, in relation to radioactivity in the summer of 1956

F

Gorshakova, T.I. & al. (1957) 580898
Fish Ind., Moscow, 33(3):42-8

Finsko-Sovetskio okoanograficho i biologicheskio issledovaniia v Baltiiskom more (Finnish-Soviet oceanographic and biological research in the Baltic sea)

Account of three voyages on board the Finnish M/S ARANDA. Description of ship & equipment. Description of research works: physical & chemical regime of water; distribution & composition of plankton; marine geology; behaviour of fish. Brief description of Finnish inland fishing trade.

FiB:go

MF

Sanborn, A.D. (1957) 580896
Med. Tech. Bull., 8:234-42
Potable water on submarines

Alperovich, M.L. (1957) 580899
Fish Ind., Moscow, 33(3):48-9

O promysle lososovykh na Dalnom Vostoke (The salmon industry in the Far East)

Decrease of the stock of salmonidae, due to the intense uncontrolled activity of Japanese fisheries. Necessity for applying conservation measures.

FiB:go

M

Manowitz, B., C.W. Pierce & S. Zwickler (1957) 580897
U.S. Atomic Energy Comm., BNL-446, 26 p.
Characteristics of Savannah River wastes

F

Vinogradov, L.G. (1957) 580900
Fish Ind., Moscow, 33(3):49-51

Ob okhrano zapasov kamchatskogo kraba (Crab protection reserves in Kamchatka)

Reserves, abodes & behaviour of Kamchatka crabs. Nippo-Soviet convention on fisheries. Necessity of further conservation measures.

FiB:go

M

Frolov, A.I. (1957) 580901

Fish Ind., Moscow, 33(3):51-5
Novyi raion nagula soldi v Okhotskom more (A new region in the Okhot sea for fattened herrings)

Study of distribution & migration of herrings. Conditions & areas in which herrings increase their weight & their behaviour during the fattening period.

FiB:go

M

Anonymous (1957) 580904

Trade News, 9(11):6-8, 12
Science and sea lamprey

Short illustrated account of present research on control of this parasite in Great Lakes.

WAD:sjh

MF

Evropeitseva, N.V. & A.I. 580902

Zatsepilova (1957)
Fish Ind., Moscow, 33(3):56-61
Vyrashchivanie pokatnikov baltiiskogo lososia i taimonia v prudovykh usloviakh (Young salmon breeding and Salmo tymallus breeding under pond conditions)

Description of methods applied & results of breeding fingerlings in ponds, until they are ready for their seaward run. Nutrition & water regime in the ponds.

FiB:go

MF

Poulsen, E.M. (1957) 580905

International Commission for the North-west Atlantic Fisheries, Halifax, N.S., 4 p.
Newsletter No. 26

Contains current information about activities of ICNAF and its committees, publications, news of fishing operations in the N.W. Atlantic as known at date of issue (October-December 1957).

GLK:sjh

M

Guseinov, M.Sh. (1957) 580903

Fish Ind., Moscow, 33(3):62-3
Pervy opyt polucheniia zreloi ikry i lichinok kurinskoj belugi (The first experiment in obtaining mature spawn and larvae from Kuria white sturgeon (Huso Huso Linné))

Description of methods used for transferring reproducers from fishing ground to nurseries. Injection of hypophysis. Fecundation of spawn. Results.

FiB:go

F

Nelson, T.C. (1957) 580906

Amer.Scient., 45:301-32
Some scientific aids to the oyster industry

Historical and present review of oyster culture, and the scientific principles upon which it is based.

TL:tl

MF

<p>Johannesson, J.K. (1957) 580907 <u>Nature, Lond.</u>, 180:285-6 Nature of the bacterial agent in sea water</p> <p>Testing the effect of organic substances on the survival of <u>Escherichia coli</u>. Theory that iodate, present in sea water, may be the "universal toxic agent".</p> <p>GLK:tl M</p>	<p>U.K. Ministry of Agriculture, Fisheries & Food (1957) 580910 <u>Fish.Lab., Lowestoft</u>, (mimeo), 8 p. On the relation between the intensity of illumination and the shifting of cones in the fish retina</p> <p>English translation of 580909.</p> <p>FiB: F</p>
<p>Worthington, L.V. (1957) 580908 <u>Nature, Lond.</u>, 180:291 Underwater sounds heard from sperm whales</p> <p>A note on detection by echo-sounders, and recording in phonographic records of sounds emitted by <u>Physeter catodon</u> off the coast of North Carolina and south of Cape Cod.</p> <p>GLK:hr M</p>	<p>Thailand. Ninth Pacific Science Congress (1957) 580911 <u>Bangkok</u>, 193 p. Thailand past and present</p> <p>General handbook dealing with history, geography, etc. Chapter 17 deals with aquatic resources: exploited species are listed, chiefly by common name, fishing methods are described briefly, and a note is given on fishmarketing in Bangkok.</p> <p>GLK:glk MF</p>
<p>Tamura, T. (1957) 580909 <u>Bull.Jap.Soc.sci.Fish.</u>, 22:742-6 (On the relation between the intensity of illumination and the shifting of cones in the fish retina). <u>Ni</u></p> <p>Methods; results of experiments with <u>Lateolabrax japonicus</u> and <u>Cyprinus carpio</u> and discussion of the implications of these results for interpretation of fish behaviour with respect to lights used in fishing.</p> <p>SJH:glk F</p>	<p>Walos, J.H. (1957) 580912 <u>Department of Fish & Game, Sacramento</u>, 55 p. Trout of California</p> <p>Popular booklet describing the native and introduced <u>Salmo</u> and <u>Salvelinus</u>, their distribution and habits, and giving some notes on life breeding, management, etc.</p> <p>WAD:wad MF</p>

<p>Baxter, B.W. (1957) 580913 <u>Nature, Lond.</u>, 180:1145 Lamprey distribution in streams and rivers</p> <p>Some observations on the relations between stream gradient and ammocoete distribution, and a request for information on the latter subject.</p> <p>GLK:wad F</p>	<p>Mann, K.H. (1957) 580916 <u>J.Anim.Ecol.</u>, 26(1):99-111 A study of a population of the leech <u>Glossiphonia complanata</u></p> <p>Life history was investigated by weighing individually all the leeches in samples taken from a tributary of the River Pang, Berkshire, between August 1953 and July 1954, and by further observations in 1955.</p> <p>SJH:sjh F</p>
<p>Beard, D.M. (1957) 580914 <u>Nature, Lond.</u>, 180:1145 Occurrence of <u>Elminius modestus</u> Darwin in Ireland</p> <p>First record of this Australasian barnacle in Ireland.</p> <p>GLK:wad M</p>	<p>Moon, H.P. (1957) 580917 <u>J.Anim.Ecol.</u>, 26(1):113-23 The distribution of <u>Asellus</u> in Windermere</p> <p>Relation of distribution of <u>A. aquaticus</u> (L.) and <u>A. meridians</u> Rac., to type of shoreline and to each other.</p> <p>SJH:sjh F</p>
<p>India. Zoological Society (1957) 580915 <u>Calcutta</u>, 10 p. History, constitution and regulations of the Zoological Society of India</p> <p>New and revised edition of <u>J.zool.Soc. India</u>, 3(1):213-21, June 1951.</p> <p>GLK: MF</p>	<p>Mann, K.H. (1957) 580918 <u>J.Anim.Ecol.</u>, 26(1):171-7 The breeding, growth and age structure of a population of the leech <u>Helobdella stagnalis</u> (L.)</p> <p>Growth, reproduction and survival measurements of a lake population.</p> <p>SJH:sjh F</p>

<p>Crisp, D.J. (1957) 580919 <u>J. Anim. Ecol.</u>, 26(1):179-96 The orientation of barnacles to water currents</p> <p>Directional distributions on various spp. on different sites, and relation of these to currents, light direction, age of barnacle.</p> <p>SJH:sjh M</p>	<p>Union Géodésique & Géophysique 580922 Internationale (1957) Paris, 242-88 Chronique de l'U.G.G.I. no. 7 (I.U.G.G. Chronicle no. 7). <u>En</u> <u>Fr</u></p> <p>Contains notes on requests for photographic illustrations of the international ice nomenclature and U.S. plans for ship operations for Pacific Ocean deep water investigations during IGY (with cruise plans).</p> <p>FiB:tl M</p>
<p>Sloane, J.F. & al. (1957) 580920 <u>J. Anim. Ecol.</u>, 26(1):197-211 The ecology of the Lough Ine Rapids with special reference to water currents - V. The sedentary fauna of the laminarian algae in the Lough Ine area</p> <p>Relation of spp. to environmental conditions; algal frond weights and surfaces.</p> <p>SJH:sjh MF</p>	<p>Union Géodésique & Géophysique 580923 Internationale (1957) Paris, 290-320 Chronique de l'U.G.G.I. no. 8 (I.U.G.G. Chronicle no. 8). <u>En</u> <u>Fr</u></p> <p>Contains report on the Japanese oceanographic project of IGY (mean and steric sea level, long wave measurement, multiple ship current measurement, and polar front survey).</p> <p>TL:tl M</p>
<p>Royce, W.F. (1957) 580921 <u>Fish. Bull., U.S.</u>, 57:497-554 Observations on the spearfishes of the central Pacific</p> <p>Taxonomy, distribution, size, food and spawning habits of spearfishes are considered. 6 spp. are recognized: swordfish (<u>Xiphias gladius</u>), shortnose spearfish (<u>Tetrapturus angustirostris</u>), sailfish (<u>Istiophorus orientalis</u>), black marlin (<u>Istiompax marlina</u>), striped marlin (<u>Makaira audax</u>), and Pacific blue marlin (<u>Makaira ampla</u>).</p> <p>HR:hr M</p>	<p>Hubbs, C. & K. Strawn (1957) 580924 <u>J. exp. Zool.</u>, 134(1):33-62 Survival of F₁ hybrids between fishes of the subfamily <u>Etheostominae</u></p> <p>Artificial hybridisation of various pairs of <u>Etheostoma</u> (<u>Microperca</u>), <u>E.</u> (<u>Nanostoma</u>), <u>E.</u> (<u>Poecilichthys</u>), <u>E.</u> (<u>Oligoccephalus</u>), <u>Percina</u> and <u>Hadropterus</u>. Fecundity, comparison with natural hybrids, intermediacy between parents in morphological, behavioural and developmental characteristics.</p> <p>WAD:sjh F</p>

<p>Vinogradova, Z.A. (1957) 580925 <u>C.R.Acad.Sci.U.R.S.S.</u>, 116:688-90 Biokhimicheskii sostav planktona Chernogo moria (Biochemical composition of the Black Sea plankton)</p> <p>Account of seasonal variations of biochemical compositions of plankton & its nutritive quality.</p> <p>FAO:go M</p>	<p>Kreger, D.R. (1957) 580928 <u>Nature, Lond.</u>, 180:867-8 X-ray interferences of barium sulfate in fungi and algae</p> <p>F</p>
<p>Kojima, Y. (1957) 580926 <u>Nippon Suisangaku Kaishi</u>, 22:104-7 The preparation and purification of alginic acid by electrodialysis - III. The preparation of alginic acid by electrodialysis with three chambers</p> <p>M</p>	<p>Sorokin, Yu.I. & M.V. 580929 Kozlyaninov (1957) <u>C.R.Acad.Sci.U.R.S.S.</u>, 116:863-5 Oprodolnionie zavisimosti fotosintetizatsii planktona ot osveshchennosti vodnoi tolshchi v Japonskom more i Tikhom okeane (Methods for determining the relation between phyto-plankton photosynthesis & the illumination of water in the sea of Japan & the Pacific)</p> <p>Simultaneous analysis, by application of radioactive carbon isotope C¹⁴ & measurements by photoelectric hydro-photometer.</p> <p>FAO:go M</p>
<p>Kojima, Y. (1957) 580927 <u>Nippon Suisangaku Kaishi</u>, 22:108-11 The preparation and purification of alginic acid by electrodialysis - IV. The decoloration of alginic acid with chlorine gas</p> <p>M</p>	<p>Fisher, L.R., S.K. Kon & S.Y. Thompson (1957) 580930 <u>J.Mar.biol.Ass.U.K.</u>, 36:501-7 Vitamin A and carotenoids in certain invertebrates. VI. Crustacea: Penaeoidea</p> <p>Vitamin A & carotenoids were measured in 6 spp. of Penaeoidea & 7 spp. of Sergestidae.</p> <p>GLK:hr M</p>

Denton, E.J. & F.J.Warron (1957) 580931
J.Mar,biol.Ass.U.K., 36:651-62
Photosensitive pigments in the retinas
of deep-sea fish

Measurements were made on the intact
retinae dissected from freshly caught
deep-sea fish. Unbleached retinae of
such fish are golden in colour. The
golden colours are of photosensitive
pigments. The significance of this type
of photosensitive pigment is discussed,
& an estimate is made of the depths at
which deep-sea fish will see daylight.

GLK:hr

M

Droop, M.R. (1957) 580934
Nature, Lond., 180:1041-2
Vitamin B₁₂ in marine oology

580934

M

Klempner, H.G. (1957) 580932
Biochem.J., 67:381-90
Accumulation of iodide by Fucus
ceranoides

M

Daisley, K.W. (1957) 580935
Nature, Lond., 180:1042-3
Vitamin B₁₂ in marine oology

580935

M

Eyster, C. (1958) 580933
Ohio J.Sci., 58:25-33
Microelement nutrition of Nostoc
muscorum

F

Matty, A.J. (1957) 580936
Nature, Lond., 180:1055
Occurrence of periodic acid-Schiff
positive material in the pituitary of
the rainbow parrot fish, Pseudoscarus
guacamaia

M

<p>Zhirmunskii, A.V. & M.I. 580937 Kislova (1957) <u>C.R.Acad.Sci.U.R.S.S.</u>, 116:517-20 (Adaptation of Actinia from the Black Sea to increased salinity). <u>Ru</u></p> <p>Description of experiments carried out with Actiniae in water with higher NaCl contents, than in their natural environment. When transferred without transition, Actiniae mostly perished. When NaCl contents were increased gradually, they easily adapted themselves & thrived in new surroundings.</p> <p>FAO:go M</p>	<p>Savchenko, O.N. (1957) 580940 <u>Biokhimiia</u>, 22:702-7 Effect of temperature on the metabolism of labile phosphorus of adenosinetriphosphoric acid in the brain of fish in vitro</p> <p>F</p>
<p>Goïnrikh, A.K. (1957) 580938 <u>C.R.Acad.Sci.U.R.S.S.</u>, 117:321-4 (Vortical distribution of plankton in the region south-east of the Bonin islands). <u>Ru</u></p> <p>Study of spp., their size, concentration & amount at different depths (down to 500 m.).</p> <p>FAO:go M</p>	<p>Seshadri, B. (1957) 580941 <u>J.anim.Morphol.Physiol.</u>, 4:43-7 Amylases in mullets</p> <p>MF</p>
<p>Amatnick, E. & al. (1957) 580939 <u>J.g.n.Physiol.</u>, 41:333-42 Effect of temperature, potassium, and sodium on the conductance change accompanying the action potential in the squid giant axon</p> <p>M</p>	<p>Kojima, Y. & H. Kusakabe (1957) 580942 <u>J.sci.Res.Inst., Tokyo</u>, 51:189-94 Isolation of natural substances by ion-exchange resins. VI. A new nitrogenous constituent found in squid</p> <p>M</p>

Verwoy, J. (1957) 580943
Année biol., 33:129-49
Influence of temperature on osmotic
regulation

M

Harder, W. (1957) 580946
Année biol., 33:227-32
The reactions of organisms (plankton) to
discontinuity layers

M

Buznikov, G.A. (1957) 580944
J.gen.Biol., Moscow, 18:350-9
On the physiology of the hatching glands
of embryo of Teleostei

MF

Spärck, R. (1957) 580947
Année biol., 33:234-9
The importance of metabolism in the
distribution of marine animals

M

Marshall, S.M. & A.P. Orr (1957) 580945
Année biol., 33:221-6
Seasonal changes in respiration in
cyclopods

M

Furneston, M.L. (1957) 580948
Année biol., 33:345-66
Chaetognaths and zooplankton of the
Atlantic coast of Morocco

M

<p>Garcia, M.D. Pineda (1957) 580949 <u>Trab.Inst.osp.Oceanogr.</u>, (23):46 p. The lipides of the flesh of the cod (<u>Gadus morrhua</u>)</p>	<p>Powell, D.E. & A.E. Peterson (1957) 580952 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (205): 30 p. Experimental fishing to determine distribution of salmon in the north Pacific Ocean, 1955</p> <p>Description of vessel, gear and operations; catch by spp. & mesh size, depth at which salmon were caught, vitality of gill-net-caught salmon, seasonal composition of gill-net catches; length frequencios.</p>
<p>Pera, F. (1957) 580950 <u>Latv.PSR Zinat.Akad.Vestis</u>, (3):97-109 Conditions of nitrogen fixation in lakos of Latvia - I. Conditions of fixation of free nitrogen</p>	<p>Walburg, C.H. (1957) 580953 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (206): 13 p. Neuse river shad investigations, 1953</p> <p>Investigations to detormine total catch, fishing effort, fishing ratio, size of run, and spawning escapement for 1953.</p>
<p>Bidwell, K.W.E. & M.E. Foreman (1957) 580951 <u>Nature, Lond.</u>, 180:1195-6 Distribution of strontium-90 in pond weed and fish</p>	<p>Graham, J.J. (1957) 580954 <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (212): 38 p. Central north Pacific albacore surveys, May to November 1955</p> <p>5 cruises were completed by Pacific Oceanic Fishery Investigations during May-Nov., 1955, to investigate the alba- core tuna, <u>Gormo alalunga</u>, (Bonnaterre), resources to the north and northeast of the Hawaiian Islands. Data are given on distribution and abundance, and on size composition of these stocks, and are related to oceanographic conditions observed.</p>

King, J.E. & T.S. Hida (1957) 580955
Spec.sci.Rep.U.S.Fish Wildl.Serv., (221):
23 p.

Zooplankton abundance in Hawaiian waters,
1953-54

Displacement volume data are analysed
with respect to variation with depth,
geographic coordinates and time, and for
correlations with environmental factors.

GLK:glk

M

Callaway, R.J. (1957) 580958
Spec.sci.Rep.U.S.Fish Wildl.Serv., (230):
49 p.

Oceanographic and meteorological
observations in the northeast and central
North Pacific, July - December 1956

Tabulated and graphical data with notes
on methods.

GLK:tl

M

Miyake, I. & W.R. Steiger (1957) 580956
Spec.sci.Rep.U.S.Fish Wildl.Serv., (223):
23 p.

The response of tuna and other fish to
electrical stimuli

Theoretical studies of the potential,
electric field, & current density for
spherical electrodes submerged in a large
body of water. The relation between the
head-to-tail potential and current
density in a fish as determined by the
relative conductivities of the fish &
water is also investigated. Preliminary
experiments with aholehole (Kuhlia
sandvicensis).

WAD:glk

M

Thraillkill, J.R. (1957) 580959
Spec.sci.Rep.U.S.Fish Wildl.Serv., (232):
50 p.

Zooplankton volumes off the Pacific
coast, 1956

Tabulated data and monthly quantitative
distribution maps.

GLK:tl

M

King, J.E. & P.T. Wilson (1957) 580957
Spec.sci.Rep.U.S.Fish Wildl.Serv., (225):
8 p.

Studies on Tilapia as skipjack bait

During the summer of 1956, Tilapia
mossambica were seined from fresh-water
ponds and irrigation reservoirs,
acclimatized to sea water, and tested at
sea as skipjack bait.

WAD:glk

MF

McGary, J.W. & T.M. Naito (1957) 580960
Spec.sci.Rep.U.S.Fish Wildl.Serv., (243):
35 p.

Wind atlas of the North Pacific

Description of the procedure of
compiling the charts and the reliability
of the data. Monthly charts on the
percentage of winds with different
velocities.

GLK:tl

M

<p>Gerloff, G.C. & F. Skoog (1957) 580961 <u>Ecology</u>, 38:551-6 Availability of iron and manganese in southern Wisconsin lakes for the growth of <u>Microcystis aeruginosa</u></p> <p>Evaluation was effected by comparison of the contents of the elements in algae collected from lake blooms with the critical contents established in the laboratory.</p> <p>GLK:glk F</p>	<p>Fager, E.W. (1957) 580964 <u>Ecology</u>, 38:586-95 Determination and analysis of recurrent groups</p> <p>A new index of affinity between spp., based on presence and absence, is proposed & a table is provided from which the significance of an observed number of joint occurrences can be estimated. Method, based on ranking, is applicable to catch samples of several spp.</p> <p>GLK:sjh MF</p>
<p>Gerloff, G.C. & F. Skoog (1957) 580962 <u>Ecology</u>, 38:556-61 Nitrogen as a limiting factor for the growth of <u>Microcystis aeruginosa</u> in southern Wisconsin lakes</p> <p>Relative requirements and availability of nitrogen and phosphorus were evaluated by laboratory and field observations.</p> <p>GLK:glk F</p>	<p>Hubbs, C. & K. Strawn (1957) 580965 <u>Ecology</u>, 38:596-602 The effects of light and temperature on the fecundity of the greenthroat darter, <u>Etheostoma lepidum</u></p> <p>Habitat and egg-deposition behaviour are described and field observations on reproductive rate and temperature and light are reported.</p> <p>GLK:glk</p>
<p>Pimontel, D. (1957) 580963 <u>Ecology</u>, 38:576-80 Life history of <u>Australorbis glabratus</u>, the intermediate snail host of <u>Schistosoma mansoni</u> in Puerto Rico</p> <p>A laboratory study of this freshwater snail. Data on fecundity and growth.</p> <p>GLK:sjh F</p>	<p>Cottam, G., J.T. Curtis & A.J. Catana (1957) 580966 <u>Ecology</u>, 38:610-22 Some sampling characteristics of a series of aggregated populations</p> <p>Three indices for the measurement of aggregation using distance methods and problems of homogeneity and complexity of aggregation patterns in natural populations are discussed.</p> <p>GLK:sjh MF</p>

Schaefer, M.B. (1957) 580967

J.Fish.Res.Bd Can., 14:669-81

Some considerations of population dynamics and economics in relation to the management of the commercial marine fisheries

Discussion of the dynamics of renewable natural resources, considering these as non-self-regulating or self-regulating; an economic model of the fishery is offered and some social and political aspects are considered.

GLK:glk

Squires, H.J. (1957) 580970

J.Fish.Res.Bd Can., 14:693-728

Squid, Illex illecebrosus (LeSueur), in the Newfoundland fishing area

Distribution, relative annual abundance, growth, sexual maturity, food and parasites.

GLK:glk

M

Frick, H.C. (1957) 580968

J.Fish.Res.Bd Can., 14:683-6

The optimum level of fisheries exploitation

Discussion of 580967.

GLK:

Mills, D.H. (1957) 580971

J.Fish.Res.Bd Can., 14:729-30

Herring gulls and common terns as possible predators of lobster larvae

Stomach contents of Larus argentatus and Sterna hirundo, caught at a time when lobster larvae were abundant.

GLK:glk

M

Millor, R.B. (1957) 580969

J.Fish.Res.Bd Can., 14:687-91

Permanence and size of home territory in stream-dwelling cutthroat trout

Report of tagging operations and of the evidence they yield of movement.

GLK:glk

Bailey, W.B. (1957) 580972

J.Fish.Res.Bd Can., 14:731-69

Oceanographic features of the Canadian Archipelago

Comparison of vertical temperature and salinity structures in Baffin Bay, the Canadian Archipelago and the Arctic Ocean and other aspects of the oceanography of Baffin Bay.

GLK:glk

M

Alm, G. (1957) 580973
Ostkusten, July 1957:4 p.
Växlingarna i gädd- och abborrfångston
vid Ostorsjöskusten (Variations in
pike and perch catches along the Baltic
coast)

Distribution of catches by month and
year in various fishing districts from
1909-1955, and discussions on the
reasons of fluctuations in catches.

TL:tl

MF

Alm, G. (1957) 580976
Vandringsfisk.Medd., (10):3 p.
Laxfisket i Ostorsjöområdet under år
1956 (Salmon fishery in the Baltic
sea area during the year 1956)

Catch statistics in various countries by
size of the fish and by different gear.

TL:tl

MF

Alm, G. (1957) 580974
Fisko, (5):15 p.
Vad äter fisken? (What does the fish
eat?)

Popular review of the flora and fauna
of the fresh water (including plankton),
and the selection and preference of
different kinds of food by different spp.

TL:tl

F

Puko, C. (1957) 580977
Vandringsfisk.Medd., (11):10 p.
Naturdammsundersökningar nr 11 -
Laxodlingen i naturdammar i nedre
Norrländ år 1957 (Investigations on
natural ponds no. 11 - Salmon
culture in natural ponds in Lower
Norrländ in the year 1957)

Qualitative and quantitative results of
rearing of salmon fry in four natural
ponds and discussion of the reasons for
varying results in different ponds.

TL:tl

F

Puko, C. (1957) 580975
Vandringsfisk.Medd., (7):8 p.
Försöksuppfödningen av utvandringsfärdiga
laxungar vid Statens fiskodlingsanstalt
i Älvkarleby 1954-1956 (Experimental
rearing of salmon smolt in Älvkarleby
hatchery 1954-56)

Notes on growth and mortalities of the
fry in various years.

TL:tl

F

Teal, J.M. (1957) 580978
Ecol.Monogr., 27:283-302
Community metabolism in a temperate
cold spring

A study in terms of energy flow. The
flow through the larger animal
populations being studied in detail; the
respiration of these animals was
measured and photosynthesis and
respiration of micro-organisms was
determined. Non-predatory mortality was
studied as was also the relative
importance of various spp.

GLK:glk

Bernard, F. & C. Bertoldo (1958) 580979
Bull.Inst.océanogr., Monaco, (1110):30 p.
Etude, jour par jour, de la fertilité
marine élémentaire à l'extérieur du port
d'Alger (Day by day study of basic
marine fertility outside the port of
Algiers) En

A study of the effects of meteorological
and nutrient changes on production of
phytoplankton.

FAO:hr

M

580981
(Card 2)

in the following environments: pools,
clusters of sea Phanerogams, and
polygenetic sediments.

FAO:hr

M

Brouardel, J. & J. Vernet (1958) 580980
Bull.Inst.océanogr., Monaco, (1111):34 p.
Recherches expérimentales sur la varia-
tion en Méditerranée, de la teneur en
oxygène de l'eau au proche voisinage des
sédiments (Experimental research in
the Mediterranean on the variation of
oxygen content of the water close to the
sediments). En

In the Mediterranean sea, at least in the
areas where there is no permanent current,
the conc. of dissolved oxygen is reduced
close to the sediment. The experiments
have shown that the phenomenon is physico-
chemical, but of organic origin.

FAO:hr

M

Vernet-Cornubert, G. (1958) 580983
Bull.Inst.océanogr., Monaco, (1113):52 p.
Biologie générale de Pisa tetrædon
(Pennant) (General biology of Pisa
tetrædon (Pennant)). En

A study of the taxonomy, varieties,
brooding, ecology, migration,
reproduction, development, moulting,
growth, external sexual characters and
life cycle of the sp.

FAO:hr

M

Blanc-Vernet, L. (1958) 580981
Bull.Inst.océanogr., Monaco, (1112):45 p.
Les milieux sédimentaires littoraux de la
Provence occidentale (côte rocheuse).
Relation entre la microfaune et la
granulométrie du sédiment (The
littoral sedimentary medium of
the western Provence (rocky coast).
Relations between the microfauna and the
granulometry of the sediment). En

A study of sediments taken at depths
varying from 0 or a few inches (pools)
to 229 or 262 feet (circumlittoral zone).
The data of the microfauna & the granulo-
metry of the sediment permitted the
definition of chief ecological factors

FAO/58/7/5112

Pérès, J.-M. (1958) 580984
Bull.Inst.océanogr., Monaco, (1115):21 p.
Trois plongées dans le canyon du Cap
Sicié, effectuées avec le bathyscaphe
F.N.R.S. III de la marine nationale
(Three dives in the Canyon of Cape Sicié,
made with the bathyscaph F.N.R.S. III of
the National Navy). En

An illustrated account of the observations
made near Toulon of the benthic and
pelagic fauna, and the layer of water
immediately above the bottom.

FAO:hr

M

Fisk, L. (1958) 580985
Outd. Calif., 19(2):1,7,15
Tests of new bypass device show runs can be preserved

Popular account of an experimental fishway of the vortical buffalo type designed to pass salmon, steelhead, striped bass, shad and sturgeon.

WAD:wad

Richmond, N.D. (1958) 580988
Copeia, (1):41-3
The status of the Florida snapping turtle Chelydra osecola Stejneger

Discussion of shell characters, external features, and skeletal structure.

FAO:glk M

Rechnitzer, A.B. & J. Böhlke (1958) 580986
Copeia, (1):10-5
Ichthyococcus irregularis, a new Gonostomatine fish from the Eastern Pacific

Illustrated taxonomic description, with regression of interorbital length on standard length allometric; distribution and relationships.

FAO:glk M

Rosenblatt, R.H. (1958) 580989
Copeia, (1):52-4
The status and synonymy of the eastern Pacific eel Ariosoma gilborti (Ogilby)

Examination of new material, measurement of holotype, and discussion of validity of past conclusions on the significance of various characters and differences.

FAO:glk MF

Strawn, K. (1958) 580987
Copeia, (1):16-22
Life history of the pigmy seahorse, Hippocampus zosterae Jordan and Gilbert, at Cedar Key, Florida

Sex ratio, breeding season, contents of ovaries and brood pouches and frequency of broods, growth, sexual maturity and number of generations a year, longevity.

FAO:glk M

Bigelow, H.B. & W.C. 580990
Schroeder (1958)
Copeia, (1):54-5
A large white shark, Carcharodon carcharias, taken in Massachusetts Bay

Note on a capture in 1957 and of previous captures.

FAO:glk M

<p>Doublor, E.H., Jr. & W.E. 580991 Fahy (1958) <u>Copeia</u>, (1):55 A reversed ambicolorate summer flounder, <u>Paralichthys dentatus</u> Notes on external features.</p>	<p>Grey, M. (1958) 580994 <u>Copeia</u>, (1):56-7 Second specimen of the bathypelagic fish <u>Photostylus pycnopterus</u> Description of specimen in US National Museum.</p>
<p>FAO:glk M</p> <p>Hoese, H.D. & C.O. 580992 Berglund, Jr. (1958) <u>Copeia</u>, (1):55-6 Coloration in Texas hogchokers, <u>Trinectes</u> <u>maculatus fasciatus</u> Description of a typical colorless form.</p>	<p>FAO:glk M</p> <p>Houck, W.J. (1958) 580995 <u>Copeia</u>, (1):57 Another record of the agonid <u>Bothragonus</u> <u>swani</u> from California Description and some observations on behaviour.</p>
<p>FAO:glk M</p> <p>Hubbs, C.L. (1958) 580993 <u>Copeia</u>, (1):56 Position of anal fin and length of body cavity in catostomid and cyprinid fishes Discussion of the evolutionary and taxonomic significance of this character.</p>	<p>FAO:glk M</p> <p>Hubbs, C. (1958) 580996 <u>Copeia</u>, (1):57-9 Fertility of F₁ hybrids between the percid fishes, <u>Etheostoma spectabile</u> and <u>E. lepidum</u> Discussion of hybrid fertility; geographic range of the crossed species, description of crosses made and report of viability of offspring.</p>

<p>Böhlke, J.E. (1958) 580997 <u>Copeia</u>, (1):59 Substitute names for <u>Nystactes</u> Böhlke and <u>Lucaya</u> Böhlke, preoccupied</p> <p>Notice of preoccupied names.</p> <p>FAO:glk MF</p>	<p>Gordon, M.S. (1958) 581000 <u>Copeia</u>, (1):61-2 The physiology of the pituitary gland of fishes</p> <p>Review of 580999.</p> <p>FAO: MF</p>
<p>Hocht, M.K. (1958) 580998 <u>Copeia</u>, (1):60-1 Vertebrates of the United States</p> <p>Review of 570150.</p> <p>FAO: MF</p>	<p>Walters, V. (1958) 581001 <u>Copeia</u>, (1):62-3 The physiology of fishes. I. Metabolism</p> <p>Review of 570207.</p> <p>FAO: MF</p>
<p>Pickford, G.E. & J.W. Atz (1957) 580999 <u>New York zool. Society, New York</u>, 613 p. The physiology of the pituitary gland of fishes</p> <p>Reviews the pituitary functions in fishes. The techniques, procedures and results of pituitary treatment to induce fish to reproduce are summarized in tabular form.</p> <p>:hr MF</p>	<p>Kubo, I. & T. Yoshihara (1957) 581002 <u>Kyoritsu Shuppan Co., Tokyo</u>, 345 p. The science of aquatic resources</p> <p>Stocks and their definition, age determination, growth of individuals & of populations, survival phenomena, methods of estimating populations, anal- ysis of fluctuations in populations, overfishing & optimum catch, propagation & protection, tagging, preservation of specimens, & methods of measuring animals.</p> <p>:sjh MF</p>

<p>Pintlor, H.E. & W.C. Johnson (1958) 581003 <u>Calif. Fish Game</u>, 44:91-124 Chemical control of rough fish in the Russian river drainage, California</p> <p>Description of the water basin, its fish & fisheries; large-scale use of rotenone to control unwanted spp. with aim of improving fishery for <u>Salmo g. gairdneri</u>; costs incurred & evaluation of results.</p>	<p>Barnard, J.L. (1958) 581006 <u>Calif. Fish Game</u>, 44:161-70 Amphipod crustaceans as fouling organisms in Los Angeles - Long Beach harbors, with reference to the influence of sea-water turbidity</p> <p>Experimental study of settling of amphipods, polychaetes, tunicates, mussels, & serpulids; effect of fouling organisms on restricting attack by borers such as <u>Limnonia</u>, & consideration of deliberately encouraging settlement for this purpose by causing a favorable artificial turbidity.</p>
<p>SJH:sjh F</p>	<p>SJH:sjh M</p>
<p>Walos, J.H. (1958) 581004 <u>Calif. Fish Game</u>, 44:125-36 Two new blood fluke parasites of trout</p> <p>Epizootic in <u>Salmo g. gairdneri</u> and <u>S.g. kamloops</u> in 1955 at Darrah Spring Hatchery, California, traced to <u>Sanguinicola davisii</u> & <u>S. klamathensis</u>. Descriptions of these digenetic trematodes, & role of snails <u>Oxytroma</u> & <u>Fluminicola</u> spp. in their life-histories, suggested control methods.</p>	<p>McKeevor, K.L. (1958) 581007 <u>Calif. Fish Game</u>, 44:171-4 Albinism and ambicoloration in the California halibut (<u>Paralichthys californicus</u>)</p> <p>Ill. description of 2 unusual specimens taken in S. California waters in summer of 1956.</p>
<p>SJH:sjh F</p>	<p>SJH:sjh M</p>
<p>Rosenblatt, R.H. & W.J. Baldwin (1958) 581005 <u>Calif. Fish Game</u>, 44:137-59 A review of the eastern Pacific sharks of the genus <u>Carcharhinus</u>, with a redescription of <u>C. malpeloensis</u> (Fowler) and California records of <u>C. remotus</u> (Duméril)</p> <p>Incl. morphometric data; ill. key to the genus.</p>	<p>Young, P.H. (1958) 581008 <u>Calif. Fish Game</u>, 44:199-200 Sea fisheries: their investigation in the United Kingdom</p> <p>Review of the original book with the same title by Graham, M. (Ed.), Edward Arnold Ltd., London, (1956).</p>
<p>SJH:sjh M</p>	<p>SJH:sjh M</p>

<p>Wolf, H. (1958) 581009 <u>Calif. Fish Game</u>, 44:200 The physiology of the pituitary gland of fishes</p> <p>Review of 580999.</p>	<p>Trautman, M.B. (1957) 581012 <u>Ohio St. Univ. Press & Ohio Div. Wildl., St. Univ. Developm. Fund</u>, 683 p. The fishes of Ohio</p> <p>Ill. original study & review of literature. General geography of the State, changes in ecological conditions, (especially 1750-1800) names & spp. & sub-spp., with description & keys; growth sizes, distribution & habitat of each sp.</p>
<p>SJH: MF</p>	<p>:sjh F</p>
<p>Eddy, S. (1957) 581010 <u>Wm. C. Brown Co., Dubuque, Iowa</u>, 254 p. How to know the freshwater fishes</p> <p>Review of 581010.</p>	<p>Kelley, D.W. (1958) 581013 <u>Calif. Fish Game</u>, 44:204 The fishes of Ohio</p> <p>Review of 581012.</p>
<p>SJH: F</p>	<p>SJH: F</p>
<p>Kimsey, J.B. (1958) 581011 <u>Calif. Fish Game</u>, 44:203-4 How to know the freshwater fishes</p> <p>Review of 581010.</p>	<p>Pollak, M.J. (1957) 581014 <u>Trans. Amer. geophys. Un.</u>, 38:62-4 Axial slope of sea level in Chesapeake Bay</p> <p>The north-south variation in axial slope of monthly mean sea level in Chesapeake Bay was investigated by means of tide-gage records. Data from three stations indicate a marked similarity between axial slopes over the northern & southern halves of the bay.</p>
<p>SJH: F</p>	<p>:tl M</p>

King, J.E. & T.S. Hida (1957) 581015
Fish.Bull., U.S., (118):365-95
Zooplankton abundance in the Central
Pacific. II

Notes on the instruments and methods used;
description of the environment;
distribution of zooplankton & its diurnal
migrations, & seasonal variations in
abundance & the relations between
phosphate, zooplankton & tuna.

FAO:tl

M

Wundsch, H.H. (1957) 581018
Z.Fisch., 5:487-504
Die Organisation der fischerowissen-
schaftlichen Forschung und Arbeit in der
Deutschen Demokratischen Republik
(The Organization of fishery scientific
research and work in the German
Democratic Republic)

Address to 3rd Conference of German
Limnologists in the International
Association for pure and applied
limnology.

FAO:glk

F

Abrosov, V.N. & I.D. Agapov (1957) 581016
Vop.Ikhtiol., 8:160-78
O samoreguliatsii chislennosti snotka v
Zhizhitskom ozere (Concerning self-
regulation of numbers of smolt in the
Zhizhits Lake)

Brief account of the characteristics of
the lake; observations on spawning,
feeding, etc., of the smolt in this lake,
size of the population of smolt and
intensity of its exploitation.

FAO:glk

F

Wundsch, H.H. (1957) 581019
Z.Fisch., 5:505-12
Geologie des Müggelsees und der Gewässer
der Oberspreewald (Geology of Müggel See
and the waters of Oberspreewald)

General geographic and topographic
introduction for the use of the
excursionists at the 3rd Conference of
German Limnologists in the International
Association for pure and applied
limnology.

FAO:glk

F

Wundsch, H.H. (1957) 581017
Z.Fisch., 5:481-5
Bericht über die dritte Tagung der
Deutschen Limnologen in der Internatio-
nalen Vereinigung für theoretische und
angewandte Limnologie (Report of the
3rd Conference of German limnologists
in the International Association for
pure and applied limnology)

FAO:

F

Müller, H. (1957) 581020
Z.Fisch., 5:513-5
Storkower See und Scharmützelsee
(Storkower See and Scharmützel See)

Brief description for the use of the
excursionists at the 3rd Conference of
German limnologists in the International
Association for pure and applied
limnology.

FAO:glk

F

Kirchberg, E. (1957) 581021
Z.Fisch., 5:517-23
Die "New Jersey Mosquito Light Trap" als
Hilfsmittel der limnologischen
Forschung (The "New Jersey Mosquito
Light Trap" as useful instrument for
limnological research)

Description of the apparatus and of
results obtained in using it to
investigate insectan fauna of inland
waters.

FAO:glk

F

Bauch, G. (1957) 581024
Z.Fisch., 5:539-47
Norddeutsche, "fischereilich eutrophe"
Flachseen (North German, "fishery
eutrophic, shallow lakes)

Discussion of the characteristics and
classification of these lakes.

FAO:glk

F

Fittkau, E.J. (1957) 581022
Z.Fisch., 5:525-9
Ein neuartiger Wasserschöpfer (A new
type of watersampler)

Description of the apparatus of which
the side is a flexible rubber membrane.

FAO:glk

F

Morawa, F.W.F. (1957) 581025
Z.Fisch., 5:549-51
Fettgehalts- und Gewichtsschwankungen
bei Fischen (Variations in fat
content and weight of fish)

Preliminary account of investigations on
Coregonus albula L., Perca fluviatilis L.
and Lota lota L.

FAO:glk

F

Elster, H.-J. (1957) 581023
Z.Fisch., 5:531-7
Einige Gedanken zum weiteren Ausbau des
Soetypensystems (Some thoughts on
broader extensions of lake-type systems)

Discussion of classification systems and
of the criteria on which these are based.

FAO:glk

F

Seidel, K. (1957) 581026
Z.Fisch., 5:553-67
Scirpus lacustris im eutrophen See
(Scirpus lacustris in eutrophic lakes)

General picture of Scirpus in these
situations, its biology, and discussion
of the ecological and economic
significance of the sp.

FAO:glk

F

Harnisch, O. (1957) 581027
Z.Fisch., 5:569-71
Beobachtungen am Fettkörper der
Chironomus-Larven bei Anaerobiose
(Observations on the fat bodies in
Chironomid larvae under anaerobic
conditions)

FAO: F

Tosch, F.W. (1957) 581030
Z.Fisch., 5:593-606
Percidonwachstum in eutrophen nord-
deutschen Flachseen (Percoid growth
in eutrophic North German shallow lakes)

Age determination, by scale reading, of
Perca fluviatilis L. and Lucioperca
sandra Cuv. and L.

FAO:glk F

Utermöhl, H. (1957) 581028
Z.Fisch., 5:573-5
Hydrobiologie mittelamerikanischer
Flachseen und Limnologische Unter-
suchungen an Maaren El Salvadors
(Mittelamerika) (Hydrobiology of
Central American shallow lakes, and
limnological investigations of Crater
lakes in El Salvador (Central America))

FAO: F

Wojnarovich, J. (1957) 581031
Z.Fisch., 5:607-15
Zur Frage der Einführung von Tieren als
Fischnahrung, vom produktionsbiologi-
schen Standpunkt aus betrachtet
(On the question of the introduction of
animals as fish-food, considered from
the viewpoint of production biology)

General discussion.

FAO:glk F

Schiemanz, F. (1957) 581029
Z.Fisch., 5:581-91
Die Flachheit als entscheidende Ursache
für die Eigenart eines Sees (Shallow-
ness as a critical cause of the
individuality of a lake)

Discussion of the characteristics of
Steinhuder Meer and of the consequences
to its metabolism and general ecology
of its shallowness.

FAO:glk F

Thomson, J.M. (1957) 581032
Fish.Bull.W.Aust., (8):8 p.
The size at maturity and spawning times
of some Western Australian estuarine
fishes

Data on place, age and size of maturity,
fecundity, spawning season, size of ova,
maximum sizes observed of spp. of
Mylio, Paraplotosus, Trudis, Reporhampus,
Fluvialosa, Sillago, Pcomatomus,
Aldrichotta, Amphitherapon, Nematalosa,
Mugil and Sciaena.

FiB:sjh MF

<p>Portugal. Comissão Central de Pescarias (1957) 581033</p> <p>Ministério da Marinha, Lisboa, 57 p.</p> <p>Estatística das Pescas Marítimas no continente e ilhas adjacentes no ano de 1954 (Marine Fisheries Statistics for the continent and adjacent islands in 1954)</p> <p>Production of fish, molluscs, crustaceans and cetaceans by spp., months, area and method of capture; vessels constructed and operating; number of fishermen employed. Incl. data for brackish waters.</p> <p>FAO:sjh MF</p>	<p>Borrit, G.R. (1958) 581036</p> <p><u>Bull. Com. centr. Océanogr.</u>, 10:335-58</p> <p>Les saisons marines à Pointe-Noire (Marine seasons at Pointe-Noire)</p> <p>Description of movements of water masses in the region east of the Gulf of Guinea; general characteristics of the seasons at Pointe-Noire and comparison of the conditions prevailing in 1953 to 1957.</p> <p>FAO:glk M</p>
<p>Nicvlossky, E.N. (1958) 581034</p> <p><u>Bull. Com. centr. Océanogr.</u>, 10:309-23</p> <p>Étude des sédiments marins littoraux à l'aide du tube à piston vibreur (Study of littoral marine sediments by means of a tube with vibrating piston)</p> <p>Description of the apparatus; account of results obtained from use of the apparatus in the Black Sea with special reference to evidence on changes in sea level in this basin.</p> <p>FAO:glk M</p>	<p>Danforth, W.C. & C.A. Theodore (1957) 581037</p> <p><u>Spec. sci. Rep. U.S. Fish Wildl. Serv.</u>, (241):</p> <p>Hull insurance and protection and indemnity insurance of commercial fishing vessels</p> <p>A comprehensive review; valuation, & study of risks by sampling. Gives data on age, size, power & value of U.S. craft, possession of navigation & safety equipment etc.; variations of insurance with type of gear, fishing period, ground worked.</p> <p>GLK:sjh MF</p>
<p>Saint-Guily, B. (1958) 581035</p> <p><u>Bull. Com. centr. Océanogr.</u>, 10:324-34</p> <p>Mouvements radiaux de Hamel en présence d'une force de Coriolis (Hamel's radial movements in the presence of Coriolis's force)</p> <p>Mathematical treatment and examination of certain oceanic currents, in particular of counter-currents and multiple vortices in the Gulf Stream, as being analogous.</p> <p>FAO:glk M</p>	<p>Pirilä, V. & Bo-J. Wikgren (1957) 581038</p> <p><u>Acta dermat.-venereol.</u>, Stockh., 37:140-8</p> <p>Cases of swimmer's itch in Finland</p> <p>Notes on the distribution of <u>Cercaria ocellata</u> and <u>Bilharziella polonica</u> in Scandinavian lakes. Clinical picture of the swimmer's itch, the causative agents and the life history of schistosome trematodes are described.</p> <p>FiB:tl F</p>

Sarma, B.B.G. (1957) 581039
Curr.Sci., 26:45
Marine transgressions in Godavari Delta

Shells of Arca ventricosa, A. tortuosa
and spp. of Anomia, Plocuna & Oyster, all
marine or estuarine spp., found in
bore-holes, give evidence of past
transgressions in this region of Andhra.

FAO:sjh

MF

Anonymous (1957) 581042
Curr.Sci., 26:140
Botanical survey of India, Western
Circle, Poona-4

Note on progress of survey, which
includes collection of aquatic plants.

FAO:sjh

F

Sastry, C. Anandeswara & al (1957) 581040
Curr.Sci., 26:53-4
Extent of removal of amino acids from
sewage during treatment by different
methods

FAO:

F

Srivastava, P.N. (1957) 581043
Curr.Sci., 26:149-50
Features of anatomical interest in the
alimentary canal of Chirocentrus dorab
(Forsk.)

Study throws light on the systematic
relationships of the Chirocentridae.

FAO:sjh

Banerjee, V. (1957) 581041
Curr.Sci., 26:58-9
Morphology and coagulation time of the
blood cells of Heteropneustes fossilis
(Bloch)

Counts and cytology of red and white
corpuscles in this fish; effects of
starvation; comparison with O. punctatus.

FAO:sjh

F

Subrahmanyam, C.B. (1957) 581044
Curr.Sci., 26:155-6
Relationship between the body weight and
the oxygen consumption in Emerita
asiatica (Milne Edwards)

Comparisons of results from study of
this Madras sand crab with other
crustacea.

FAO:sjh

M

<p>Anonymous (1957) 581045 <u>Curr.Sci.</u>, 26:172 Sea-going cosmic-ray observatory</p>	<p>Ramasoshan, S. (1957) 581048 <u>Curr.Sci.</u>, 26:267-70 The International Geophysical Year</p>
<p>Note on IGY program using Swedish merchant vessel LOMLAREN en route Sweden-S. Africa.</p>	<p>General account of program and of the contribution to be made by India, incl. oceanographic observations at coastal stations.</p>
<p>FAO:sjh M</p>	<p>FAO:sjh M</p>
<p>Venkataraman, G.S. (1957) 581046 <u>Curr.Sci.</u>, 26:180-1 A statistical study of a form of <u>Wolles</u> <u>Charadriidae</u> Singh Taxonomy of samples of this alga from Banaras.</p>	<p>Velankar, N.K. & T.K. 581049 Govindan (1957) <u>Curr.Sci.</u>, 26:285-6 Free a-amino acid nitrogen content of the skeletal muscle of some marine fishes and invertebrates Gives values for spp. of <u>Scorpaenidae</u>, <u>Sphyrna</u>, <u>Hilsa</u>, <u>Chirocentrus</u>, <u>Tylosurus</u>, <u>Sphyrnidae</u>, <u>Scomberomorus</u>, <u>Pampus</u>, <u>Dactylopterus</u>, <u>Caranx</u>, <u>Drepane</u>, <u>Scatophagus</u>, <u>Neptunus</u>, <u>Panopeus</u> and <u>Homarus</u>.</p>
<p>FAO:sjh F</p>	<p>FAO:sjh M</p>
<p>P.N.G. (1957) 581047 <u>Curr.Sci.</u>, 26:190 The mollusca of Krusadi Island Review of original article with the same title by Satyamurti, S.T., <u>Bull.Madras Govt.Mus. (nat.Hist.)</u>, 1(2), 1956.</p>	<p>Anonymous (1957) 581050 Manager of Publications, Delhi, 392 p. The Indian ophomoris and nautical almanac for the year 1958</p>
<p>FAO M</p>	<p>FAO M</p>

Rao, B.S. Madhava (1957)	581051	India. Ministry of Food & Agriculture	581054
<u>Curr.Sci.</u> , 26:312-3		(1957)	
The Indian ophomeris and nautical almanac		<u>Indian Fisheries Bulletin</u> , 4(1):36 p.	

Critical review of 581050.

Detailed summary and reports on marine and inland fisheries developments in India and elsewhere. Biological, technological and socio-economic studies in progress, technical assistance projects.

FAO:	M	FAO sjh	MF
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Haldane, J.B.S. (1957)	581052	Bohl, H. (1957)	581055
<u>J.Madras Univ.Soc.B</u> , 27(January)		<u>Ber.dtsch.Komm.Meeresforsch.</u> , 15(1):1-57	
The elementary theory of population growth		Die Biologie der Kliesche (<u>Limanda limanda</u> L.) in der Nordsee (Biology of the dab (<u>Limanda limanda</u> L.) in the North Sea).	

Population increase or decrease if mortality and fertility as a function of age remained constant over a period of several generations.

Distribution, population density, age & growth, age & sex composition of population, propagation & distribution of egg & larvae; discussion on minimum size for catch.

sjh	MF	FAO:tl	M
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Anonymous (1957)	581053	Kühl, H. & K. Tiems (1957)	581056
<u>Curr.Sci.</u> , 26:333		<u>Ber.dtsch.Komm.Meeresforsch.</u> , 15(1):58-69	
Pearl culture in Australia		Untersuchungen über die deutsche "Ölheringsfischerei" in der Nordsee im Jahre 1956 (Investigations on the German "Oilherring" industrial herring fishery in the North Sea during the year 1956).	

A brief note on methods used.

Fishing grounds, fishing fleet & landing ports, course of the fishery, composition of the catch by size and spp., and total catches.

FAO:sjh	M	FAO:tl	M
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<p>Hutchinson, G.E. (1957) 581057 <u>John Wiley & Sons, Inc., New York, 1015p.</u> A treatise of limnology</p> <p>Origin of lake basins; their morphology; properties of water; hydrological cycle and water balance, hydrodynamics; optical and thermal properties; CO₂ and pH of lake waters; iron phosphorus and sulphur, nitrogen and silica cycles; organic matter, minor metals in lake waters.</p>	<p>Lapago, G. (1958) 581060 <u>Nature, Lond., 181:1362-3</u> First symposium on host specificity among parasites of vertebrates</p> <p>Review of 581059.</p>
<p>:sjh F</p>	<p>GLK: MF</p>
<p>Ström, K. (1958) 581058 <u>Nature, Lond., 181:1360-1</u> A treatise of limnology</p> <p>Review of 581057.</p>	<p>Garrod, D.J. & B.S. Nowell (1958) 581061 <u>Nature, Lond., 181:1411-2</u> Ring formation in <u>Tilapia osculenta</u></p> <p>Study of samples from L. Victoria shows relation between ring formation and calcium content of scales and ovaries at various stages of gonad maturation.</p>
<p>GLK: F</p>	<p>GLK:sjh F</p>
<p>Baer, J.G. (Ed.) (1957) 581059 <u>Inst.Zool.Univ. de Neuchatel, 324 p.</u> First symposium on host specificity among parasites of vertebrates</p> <p>Incl. papers on evolution of fishes; host-specificity of various groups of parasites.</p>	<p>Green, J. & R. Phillips Dalos (1958) 581062 <u>Nature, Lond., 181:1412-3</u> Biliverdin in the eggs of <u>Nereis fucata</u></p> <p>Nature of blue pigment in eggs of this polychaete living in shells carried by the hermit-crab <u>Eupagurus bernhardus</u> in English Channel. Lists its occurrence also in cirripede <u>Septosaccus</u>, and in <u>N. diversicolor</u>.</p>
<p>:sjh MF</p>	<p>GLK:sjh M</p>

Williamson, M.H. (1957) 581063
Nature, Lond., 180:422-5
An elementary theory of interspecific competition

Definition & analysis of competition between animals, and of population controlling factors; properties of certain theoretical models of population interaction.

GLK:sjh

MF

Dohnol, P.A. (1958) 581066
Nature, Lond., 181:1415-7
Effect of photoperiod on the oxygen consumption of two species of intertidal crabs

Reports controlled experiments with Homigrapsus nudus & H. oregonensis, on Canadian Pacific Coast, under variety of conditions of temperature & salinity.

GLK:sjh

M

Andrewartha, H.G. & T.O. 581064
Browning (1958)
Nature, Lond., 181:1415
Williamson's theory of interspecific competition

A criticism of 581063.

GLK:sjh

MF

Brown, S.G. (1957) 581067
Mar.Obs., 27(177):157-64
Whales observed in the Indian Ocean.
Notes on their distribution

Records of whales observed at sea by merchant ships & other vessels.

FAO:hr

M

Williamson, M.H. (1958) 581065
Nature, Lond., 181:1415
Williamson's theory of interspecific competition

An answer to 581064.

GLK:sjh

MF

Huet, M. (1957) 581068
Trav.Sta.Rech.Groenendaal, D(22):109 p.
Dix années de pisciculture au Congo belge et au Ruanda-Urundi. Compte rendu de mission piscicole (Ten years of fishculture in the Belgian Congo and at Ruanda-Urundi. Account of the fisheries mission)

Considers the present development and problems of fishculture, and reviews those, particularly for the fishculture in the Congo.

GLK:hr

MF

<p>Whittaker, R.H. & C. Warren 581069 Fairbanks (1958) <u>Ecology</u>, 39(1):46-65 A study of plankton copepod communities in the Columbia basin, southeastern Washington</p> <p>Description of study area, and of methods; study of relations with salinity and ion gradients and of distributional interrelations of spp.; a summary of distribution.</p> <p>FAO:glk F</p>	<p>MacArthur, R.H. (1958) 581072 <u>Ecology</u>, 39(1):146-7 A note on stationary age distributions in single-species populations and stationary species populations in a community</p> <p>Mathematical proof that there always exists a stationary age distribution for a population in which birth and survival rates are continuous functions of the age distribution, such that the total size of the population always remains within finite limits.</p> <p>FAO:sjh MF</p>
<p>Rood, E.B. & J.R. Olivo(1958) 581070 <u>Ecology</u>, 39(1):66-74 Altitudinal distribution of some entomostraca in Colorado</p> <p>98 lakes were sampled; they are classified and the occurrence of copepods & cladocerans in them is recorded; the interaction of climatic, morphometric and edaphic factors in relation to altitudinal zones and entomostreacan distribution are discussed.</p> <p>FAO:glk F</p>	<p>Blackith, R.E. (1958) 581073 <u>Ecology</u>, 39(1):147-50 Nearest-neighbour distance measurements for the estimation of animal populations</p> <p>The relation between density and the nearest-neighbour distances with results of experiments with grasshopper populations, and discussion of the effects of non-randomness.</p> <p>FAO:glk MF</p>
<p>Bardach, J.E. (1958) 581071 <u>Ecology</u>, 39(1):139-46 On the movements of certain Bermuda reef fishes</p> <p>Individuals of several spp. were tagged and recaptured repeatedly; underwater observations were made of their behaviour and notes made of the extent of their movements.</p> <p>FAO:glk M</p>	<p>Dore, W.G. (1958) 581074 <u>Ecology</u>, 39(1):151-2 A simple chemical light-meter</p> <p>Description and test use of apparatus based on property of solution of anthracene in benzene to form insoluble polymer on exposure to sunlight.</p> <p>FAO:sjh MF</p>

Friederichs, K. (1958) 581075
Ecology, 39(1):154-9
A definition of ecology and some thoughts about basic concepts

Discussion of the meaning of 'ecology', 'sociology', 'community', 'niche', 'life zones', 'stabiliment', 'organoid', 'holocoene'.

FAO:glk

MF

Rao, K. Pampapathi (1958) 581078
Curr.Sci., 27:99
Salinity tolerance of Etroplus maculatus (Bloch)

Experiments on adaptation of this Indian fresh-water fish to diluted and undiluted sea-water.

FAO:sjh

MF

Monzies, R.J. & C. Beckman (1958) 581076
Ecology, 39(1):172
Occurrence of Limnoria tripunctata at the Cape Cod peninsula

Northward extension of known range.

FAO:sjh

M

Agarwal, S.C. (1958) 581079
Curr.Sci., 27:107
A new species of the genus Pallisentis (Acanthocophala)

Preliminary description of P. allahabadii n.sp. found in alimentary canal and body cavity of 40% of the fish, Ophicophalus punctatus (Bloch), examined from Allahabad, India.

FAO:sjh

M

Provost, B.M. (1958) 581077
Ecology, 39(1):177-8
Conserving American resources

Critical review of original article with the same title by Parson, R.L. 1956, which includes discussion of salt- and fresh-water resources.

FAO:sjh

MF

LeVine, H.D. (1957) 581080
Health & Safety Lab., New York, 38 p.
Some remarks on instrumentation for marine biology research

Description of instruments for radiation measurement, their handling and methods in marine biological research with radioactive isotopes.

TL:tl

M

Bigda, R.J. (1957) 581081
Sci.Amer., 196(6):14-6
Letter to the editor

Letter to the editor about the technical possibilities and costs for making freshwater from salt water.

FAO:tl M

Anonymous (1957) 581084
J.Cons.int.Explor.Mer, 23(1):7-37
International Fisheries Convention 1946: report of the Ad Hoc Committee established at the 4th Meeting of the Permanent Commission, September 1955

Introduction, terms of reference of committee & full text of its report, dealing with the principles of fish stock assessment; the selectivity of nets effects of mesh regulation & size limits; summary of present knowledge for N. Sea spp., & recommendations for further research.

GLK:sjh M

Llano, G.A. (1957) 581082
Sci.Amer., 196(6):54-61
Sharks v. men

Illustrated review of the species, seasonal and geographical pattern of records of attacks by elasmobranchs on men, with account of pertinent underwater observations of fish behaviour.

FAO:sjh M

Cox, R.A. (1957) 581085
J.Cons.int.Explor.Mer, 23(1):38-46
An improved salinity and density meter

Ill. description of apparatus; its calibration & use; reports test results.

GLK:sjh M

Desbrosses, P. (1957) 581083
J.Cons.int.Explor.Mer, 23(1):3-5
Henri Holdt, 1891-1956

Obituary and short biography.

GLK:sjh M

Woodhead, P.M.J. & J.D. 581086
Riley (1957)
J.Cons.int.Explor.Mer, 23(1):47-50
The separation of potential males and females in stage-V copepodites of Calanus helgolandicus

Method described, based on form of proximal segment of urosome. Comparison with biometric separation methods; application to N. Sea samples.

GLK:sjh M

<p>Kipling, C. (1957) 581087 <u>J.Cons.int.Explor.Mer</u>, 23(1):50-63 The effect of gill-net selection on the estimation of weight-length relationships</p> <p>Comparison of gill-net with seine caught samples of <u>Porca fluviatilis</u> and <u>Salvolinus alpinus willughbii</u>. Use of multiple-size gill nets.</p> <p>GLK:sjh MF</p>	<p>Doelder, C.L. (1957) 581090 <u>J.Cons.int.Explor.Mer</u>, 23(1):83-8 On the growth of eels in the IJsselmeer</p> <p>Length frequencies and otolith studies of male <u>Anguilla vulgaris</u>; variability of growth.</p> <p>GLK:sjh MF</p>
<p>Margetts, A.R. (1957) 581088 <u>J.Cons.int.Explor.Mer</u>, 23(1):64-71 The length-girth relationships in whiting and cod and their application to mesh selection</p> <p>Reports measurements of N. Sea catches, of both natural and constricted girth; considers various aspects of the relation between fish and mesh size.</p> <p>GLK:sjh M</p>	<p>Twomey, E. (1957) 581091 <u>J.Cons.int.Explor.Mer</u>, 23(1):89-96 Salmon of the river Shannon (1952-1956)</p> <p>Strengths of runs, age distributions from scale samples.</p> <p>GLK:sjh MF</p>
<p>Salzen, E.A. (1957) 581089 <u>J.Cons.int.Explor.Mer</u>, 23(1):72-82 A trawling survey off the Gold Coast</p> <p>Catches per hour and their haul to haul variability, by species, depth, and locality; comparison with other areas; implications of results to development of industry.</p> <p>GLK:sjh M</p>	<p>Darbyshire, J. (1957) 581092 <u>J.Cons.int.Explor.Mer</u>, 23(1):97-8 Slopes of the sea surface deduced from photographs of sun glitter</p> <p>Review of original article with the same title by Cox, C. & W. Munk, 1956, <u>Bull.Scripps Instn Oceanogr.</u>, 6(9):401-79.</p> <p>GLK: M</p>

<p>Carruthors, J.N. (1957) 581093 <u>J.Cons.int.Explor.Mor</u>, 23(1):98-9 A new bottom map of the southern North Soa</p> <p>Review of original article in Gorman, by Jarke, J., 1956, <u>Dtsch.hydrogr.Z.</u>, 9(1):1-9.</p> <p>GLK: M</p>	<p>Braarud, T. (1957) 581096 <u>J.Cons.int.Explor.Mor</u>, 23(1):102-3 The open sea: its natural history. The world of plankton</p> <p>Review of original article with the same title by Hardy, A.C., 1956, <u>Collins</u>, London, 103 p.</p> <p>GLK: M</p>
<p>Fage, L. (1957) 581094 <u>J.Cons.int.Explor.Mor</u>, 23(1):100 Cumacea of the Benguela Current</p> <p>Review of the original article with the same title by Jones, N.S., 1955, <u>Discovery Rep.</u>, 27:279-91.</p> <p>GLK: M</p>	<p>Steven, G.A. (1957) 581097 <u>J.Cons.int.Explor.Mor</u>, 23(1):103-4 Some aspects of the schooling behaviour of fish</p> <p>Review of original article with the same title by Koonleyste, M.H.A., 1955, <u>Behaviour</u>, (8):183-248.</p> <p>GLK: M</p>
<p>Franc, A. (1957) 581095 <u>J.Cons.int.Explor.Mor</u>, 23(1):100-1 The pelagic mollusca of the Benguela current. I. First survey, R.R.S. WILLIAM SCORISBY, March 1950</p> <p>Review of original article with the same title by Morton, J.M., 1954, <u>Discovery</u> <u>Rep.</u>, 27:163-200.</p> <p>GLK: M</p>	<p>Went, A.E.J. (1957) 581098 <u>J.Cons.int.Explor.Mor</u>, 23(1):105 Movements of salmon and sea trout chiefly kelts, and of brown trout tagged in the Tweed between January and May, 1937 and 1938</p> <p>Review of original article with the same title by Nall, G.H., 1955, <u>Freshw.Salm.</u> <u>Fish.Res.</u>, 10:1-19.</p> <p>GLK: F</p>

Went, A.E.J. (1957) 581099
J. Cons.int. Explor. Mer., 23(1):106-7
Fish population analyses in some small Danish trout streams by means of D.C. electro-fishing (with special reference to the population of trout (Salmo trutta L.))

Review of original article with the same title by Larson, K., 1955, Medd. Danm. Fisk., N.S.; 1(10):1-70.

GLK:

F

Chiba, K. & Y. Ohshima (1957) 581102
Bull. Jap. Soc. sci. Fish., 23:348-53
(Effect of suspending particles on the pumping and feeding of marine bivalves, especially of Japanese neck-clam). Ni En

Rate of pumping measured by Jørgensen's method, of feeding by weighing dried feces; effect on these rates of bentonite concentration studied in Venerupis semidocussata, Morcenaria moretrix, Ostrea gigas & Mutilus edulis.

SJH:sjh

Waugh, G.D. (1957) 581100
J. Cons.int. Explor. Mer., 23(1):107
Persistent daily, monthly, and 27-day cycles of activity in the oyster and quahog

Review of original article with the same title by Brown, F.A. & al., 1956, J. exp. Zool., 131(2):235-62.

GLK:

M

Isouti, N. & T. Kawakami (1957) 581103
Bull. Jap. Soc. sci. Fish., 23:354-7
(Mechanical characteristics of plate depressors for trolling). Ni En

Tank experiments with a variety of designs of depressor; comparison of results obtained with expectation from hydrodynamic theory.

SJH:sjh

M

Iitaka, Y. (1957) 581101
Bull. Jap. Soc. sci. Fish., 23:344-7
Study on the fishing capacities of purse seines - III. On the difference between cotton and Kyokurin purse seines

Comparison of daily sardine catch statistics from the sea of Hyūga for 2 fishing centres, Simanoura & Kadogawa, before & after nets made of the artificial fibre (mixture of Saran & Nylon) were introduced in the former place in 1956, shows increased efficiency of otherwise similar gears.

SJH:sjh

M

Matsue, Y., T. Endo & K. Tabata (1957) 581104
Bull. Jap. Soc. sci. Fish., 23:358-62
(Effect of an insecticide, parathion, on aquatic animals in the lower range than its lethal concentration). Ni En

Toxicity of diethyl-para-nitrophenyl-thiophate in a range of concentrations, to Carassius auratus & Oryzias latipes over a period of a month. Effect on growth & food consumption, & on gill & fin movements.

SJH:sjh

F

Kotake, N. & M. Kawamura (1957) 581105

Bull.Jap.Soc.sci.Fish., 23:363-5

(Studies on the culture pearls with Pinctada martensii - I. Notes on the natures of pearls, operated by the different types of mantle-piece).

Ni En

Studies of pearl quality resulting from mantle implants of various shapes & sizes showed pearls of good quality appeared most frequently when small square pieces are used.

SJH:sjh

M

581107
(Card 2)

water temperatures.

SJH:sjh

Kotake, N. & M. Kawamura (1957) 581106

Bull.Jap.Soc.sci.Fish., 23:366-7

(Studies on the culture pearls with Pinctada martensii - II. Notes on the formation of 'thin-layered pearl').

Ni En

Comparative studies on the position of mantle-piece used showed good quality thin-layered product is obtained most often if the piece is sectioned from the middle of the mantle, rather than anterior or posterior regions.

SJH:sjh

M

Hirayama, N. (1957) 581109

Bull.Jap.Soc.sci.Fish., 23:373-5

(On the school of yellow-fin tuna, Neothunnus rarus (K.), being supposed from the distribution of catch on tuna long-line). Ni En

The distribution of catch on tuna long-line is analysed and the configuration of yellow-fin tuna in its school is proposed.

SJH:sjh

M

Uda, M. (1957) 581107

Bull.Jap.Soc.sci.Fish., 23:368-72

A consideration on the long years trend of the fisheries fluctuation in relation to sea conditions

Tabulates information back 5 centuries on periods of fish abundance & scarcity in case of Clupea palamii, Sardinops melanosticta, Tunas & Squids; pleads for treatment of all parameters in equations of population dynamics as functions of environmental factors; considers synchrony & its converse in fluctuations of different stocks, & their relation to indicator groups; relations synchronized fluctuations to similarities in preferred

Kobayashi, K. (1957) 581110

Bull.Jap.Soc.sci.Fish., 23:376-82

(Larvae and youngs of the sablefish, Anoplopoma fimbria (Pallas), from the sea near the Aleutian Islands). Ni En

Description, morphometric study development of 16 specimens taken by OSHORO MARU, 1955 & 1956, in larva net.

SJH:sjh

M

<p>Honda, K. (1957) 581111 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:383-7 (On the line disused after tuna long-line fishings). <u>Ni</u> <u>En</u></p> <p>Changes, with duration of use of line, in diameter flexibility, breaking strength & fatigue for cotton & cremona lines, wet and dry, studied experimentally at Misaki, Kanagawa Prof., Japan.</p> <p>SJH:sjh M</p>	<p>Kuroki, T. (1957) 581114 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:400-4 (Biophysical studies on the auditory characteristic of fish - I. Directional audibility through one lateral line). <u>Ni</u> <u>En</u></p> <p>Experimental study of 20cm <u>Carassius auratus</u> of response to various frequencies & intensities of vibrations. Remarks on the technical aspects of these experiments & the design of suitable aquaria for them.</p> <p>SJH:sjh F</p>
<p>Kurogane, K. & Y. Hiyama (1957) 581112 <u>Bull.Jap.Soc.Sci.Fish.</u>, 23:388-93 (Morphometric comparison of the yellow-fin tuna taken from the Equatorial Pacific). <u>Ni</u> <u>En</u></p> <p>Measurements of <u>Neothunnus macropterus</u> at Tokyo market, 1953-57 compared for 16 characters lead to tentative conclusion that there are at least 3 populations, with some mixing between them.</p> <p>SJH:sjh M</p>	<p>Yonoda, Y. & Y. Yoshida (1957) 581115 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:405-9 (Physiological and ecological studies on red tide - I. On the vertical migration of the plankton producing red tide (1)). <u>Ni</u> <u>En</u></p> <p>Laboratory experiments on <u>Sennia</u> sp. collected at Maizuru Bay, Nov. 1955: effect of light, salinity, pH, O₂ and other factors on its buoyancy; relation of these effects to the conditions under which red-tide is observed to occur in the field.</p> <p>SJH:sjh M</p>
<p>Kô, Y. (1957) 581113 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:394-8 (Some histological notes on the gonads of <u>Tapes japonica</u> Doshayes). <u>Ni</u> <u>En</u></p> <p>Studies of this clam in Sasco Bay show that it spawns each year in spring & in autumn. Size of maturity determined, & this & date of spawning compared as between wild & cultured stocks.</p> <p>SJH:sjh M</p>	<p>Onodera, K. (1957) 581116 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:410-9 (On the change of fishing effort corresponding to that of types of river). <u>Ni</u> <u>En</u></p> <p>Changes in discharge of R. Dôsigawa, a tributary of the Sagami, caused by construction in 1955 of a dam & waterway permitted study of fishing effort distribution on <u>Plecoglossus altivelis</u>, showing concentration at rapids, & other differences depending on type of river bed.</p> <p>SJH:sjh F</p>

Hirano, R. & Y. Ohshima (1957) 581117
Bull. Jap. Soc. sci. Fish., 23:420-2
(Cultivation and preservation methods of marine protozoa). Ni En

Method of cultivating 4 spp. Ciliata & a flagellate, isolated from algae, detritus and sea water in tidal zone, Aburatsubo Bay, Kanagawa. Such free-living organisms can be used as food in rearing larvae of marine animals. Artificial inducement of encystation is also reported.

SJH:sjh

M

Kawanabe, H. & N. Mizuno (1957) 581120
Bull. Jap. Soc. sci. Fish., 23:430-4
(Population density of a salmon-like fish, Plecoglossus altivelis, or Ayu, in different river-beds). Ni En

Relative accumulation of this sp. on boulder, shallow sand rapids, gravel, in R. Ukawa, Kyoto, during 1956, with observations on age differences.

SJH:sjh

MF

Nozawa, K. & Y. Nozawa (1957) 581118
Bull. Jap. Soc. sci. Fish., 23:423-6
(Studies on the protoplasm of algae - III. The correlation between salinity of sea water and toxicity of ammonium sulfate to the laval cell). Ni En

Experiments with Porphyra tenera suggest that it does not have much adaptability in chlorinity much different from that of sea water.

SJH:sjh

M

Suyama, M. & Y. Uno (1957) 581121
Bull. Jap. Soc. sci. Fish., 23:438-40
(Puffin toxin during the embryonic development of puffin, Fugu (Fugu) niphobles (J. & S.)). Ni En

Ill. account of bio-assay of toxin in artificially fertilized eggs.

SJH:sjh

M

Nozawa, Y. & K. Nozawa (1957) 581119
Bull. Jap. Soc. sci. Fish., 23:427-9
(Studies on a discase of Conchocelis-phase of Porphyra (Preliminary notes)). Ni En

A rod-bacterium was isolated in the filament of the Conchocelis phase of P. tenera, which may be the cause of a discase causing orange-yellow spots on the oyster shell and may be fatal to the Porphyra.

SJH:sjh

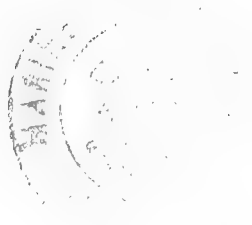
M

Ogino, C. (1957) 581122
Bull. Jap. Soc. sci. Fish., 23:447-9
(Amino acid composition of the protein of hatchery diet). Ni En

Comparison of compositions of dried Mysid, beef liver, silk-worm pupae, blood meal, dried yeast & rice bran, with that of body protein of rainbow trout fingerlings.

SJH:sjh

F

<p>Kashiwada, K., D. Kakimoto & K. Kawagoe (1957) <u>Bull.Jap.Soc.sci.Fish.</u>, 23:450-3 (Studies on vitamin B₁₂ in sea water - III. On the diurnal fluctuation of vitamin B₁₂ in the sea and its vortical distribution in the lake). <u>Ni</u> <u>En</u></p> <p>Results of analysis by microbiological method of water in Kagoshima Bay & Lake Ikoda; relation between water temperature & amount of vitamin.</p> <p>SJH:sjh MF</p>	<p>Nakamura, T. (1957) 581126 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:494-6 (Paper chromatographic study on sugar component of red algae). <u>Ni</u> <u>En</u></p> <p>Chemical composition of 9 spp. of sea woods from Aoshima, Miyazaki.</p>  <p>SJH:sjh M</p>
<p>Kikuchi, T., T. Hirano & I. Okada (1957) 581124 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:467-70 (Polarographic studies of proteins contained in fish - Preliminary report). <u>Ni</u> <u>En</u></p> <p>Study of muscles, blood & viscera of <u>Katsuwonus pelamis</u> & <u>Meretrix meretrix lusoria</u>.</p> <p>SJH:sjh M</p>	<p>Ito, K. (1957) 581127 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:497-500 (Amino acid composition of the muscle extracts of aquatic animals). <u>Ni</u> <u>En</u></p> <p>Microbiological analysis of spp. of <u>Scomber</u>, <u>Trachurus</u>, <u>Scpia</u>, <u>Fugu</u>, <u>Octopus</u>, & <u>Mylio</u>.</p> <p>SJH:sjh M</p>
<p>Baba, H. (1957) 581125 <u>Bull.Jap.Soc.sci.Fish.</u>, 23:471-5 (Studies on the proteins of shell-fish - IV. On the non-heat coagulable fractions). <u>Ni</u> <u>En</u></p> <p>Reports analysis of muscle extracts of <u>Meretrix meretrix</u>, <u>Macra sulcataria</u> & <u>Atrina japonicum</u>.</p> <p>SJH:sjh M</p>	<p>Pannier, F.P. (1958) 581128 <u>Acta cient.venezol.</u>, 9(1):2-13 El consumo de oxígeno de plantas acuáticas en relación a distintas concentraciones de oxígeno (Oxygen consumption of aquatic plants in relation to different oxygen concentrations)</p> <p>A study of intensity of respiration of marine and freshwater plants.</p> <p>FAO:hr MF</p>

Rivièro, A. & S. Vernhet (1958) 581129
C.R.Acad.Sci., Paris, 246:2784-7
 Contribution à l'étude géochimique des
 mécanismes de la sédimentation carbonatée
 en milieu lagunaire (Contribution to the
 geochemical study of the mechanisms of carbonate
 sedimentation in a lagoon environment)

Data from various estuaries and brackish water
 lagoons on salinity, various forms of calcium,
 and other chemical characteristics of water and mud.

FAO:glk

MF

Tsujita (1957) 581132
Bull.Seikai reg.Fish.Res.Lab., (13):47 p.
 (The fisheries oceanography of the East China
 Sea and the Tsushima Strait. I. The oceanographic
 structure and the ecological character of the
 fishing grounds). Ni En

Description of the hydrography of the East
 China sea with emphasis on currents & current
 divergences. Description of the locations of
 fishing grounds of mackerel & Japanese sardine,
 & the seasonal behaviour of sardine as
 determined by hydrographical conditions.

FAO:tl

M

Charniaux-Cotton, H. (1958) 581130
C.R.Acad.Sci., Paris, 246:2814-7
 La glande androgène de quelques crustacés
 décapodes et particulièrement de Lysmata
 seticaudata, espèce à hermaphroditisme
 protandrique fonctionnel (The androgenous
 gland of some decapod crustacea and in
 particular of Lysmata seticaudata, a
 species with functional protandric
 hermaphroditism)

Cytological notes on the gland & account
 of the life-phase conditions under which
 it is to be observed.

FAO:glk

M

Hela, I. & F. Koroleff (1957) 581133
Morentutkimuslait.Julk., (177):36 p.
 Hydrographical and chemical data collected
 in 1955 on board the R/V ARANDA in the
 Baltic Sea.

Cruise route, notes on methods and
 equipment used, and tabulated hydrographic
 & chemical data.

FAO:tl

MF

Berthois, L. (1958) 581131
C.R.Acad.Sci., Paris, 246:2920-2
 Sédimentation dans l'estuaire de la Loire
 pendant la crue de mars 1957 (Sedimentation
 in the Loire estuary during the flood of
 March 1957)

Discussion of the evidence obtained from
 the 1957 & the 1955 floods of the role
 played by floods in the sedimentation
 processes of this estuary.

FAO:glk

MF

Palosuo, E. (1958) 581134
Morentutkimuslait.Julk., (178):24 p.
 Die Eisverhältnisse in den Finnland
 Umgebenden Meeren im Winter 1956-57
 (Ice conditions during the winter 1956-
 57 in the seas surrounding Finland)

Distribution of different types of ice
 during various periods in the winter,
 in the Gulfs of Bothnia and Finland and
 in Central Baltic. Observations of
 thickness of ice and its salt content
 in six localities.

FAO:tl

MF

<p>Masuzawa, J. (1957) 581135 <u>Rec.oceanogr.Wks Jap.</u>, 3(1):1-7 An example of cold eddies south of the Kuroshio</p> <p>Description, cutting-off, modification & disappearance of cold eddies in the boundary region of Oyashio & Kuroshio.</p> <p>FAO:t1 M</p>	<p>Ichiyo, T. (1957) 581138 <u>Rec.oceanogr.Wks Jap.</u>, 3(1):26-35 On the storm surges caused by the typhoon 5415 "Mario" (I)</p> <p>Description of general features of storm surges, their durability & relations between the wind stress and the storm surges.</p> <p>FAO:t1 M</p>
<p>Yasui, M. (1957) 581136 <u>Rec.oceanogr.Wks Jap.</u>, 3(1):8-15 On the rapid estimation of the dynamic topography in the seas adjacent to Japan</p> <p>Dynamic depth anomalies from 653 observations are plotted against mean temperatures of 100 m. layers; 1000 db surface is taken as reference level. ΔD is estimated from these graphs & a comparison is made between the dynamic topographics of N. Pacific, using present & conventional methods (with T. & S.).</p> <p>FAO:t1 M</p>	<p>Ichiyo, T. (1957) 581139 <u>Rec.oceanogr.Wks Jap.</u>, 3(1):36-48 On the storm surges caused by the typhoon 5415 "Mario" (II)</p> <p>Description of storm surges at the stations near the path of the typhoon & along the coast & in the bays.</p> <p>FAO:t1 M</p>
<p>Ichiyo, T. (1957) 581137 <u>Rec.oceanogr.Wks Jap.</u>, 3(1):16-25 A note on the horizontal eddy viscosity in the Kuroshio</p> <p>Description of the general current pattern near the boundaries of Kuroshio, the momentum transport across the Kuroshio, the relation between mean flow & turbulent flow, & application of the results in respect of turbulent flow to the distribution of plankton.</p> <p>FAO:t1 M</p>	<p>Hayami, S., Y. Fukuo & D. Yoda (1957) 581140 <u>Rec.oceanogr.Wks Jap.</u>, 3(1):49-55 On the tidal mixing of sea water through narrow channels</p> <p>Description of the mixing by tides in respect of temperature & chlorinity in the Naruto & Akashi Straits between Seto Inland Sea & open ocean.</p> <p>FAO:t1 M</p>

Sasaki, T. & al. (1957) 581141
Rec.oceanogr.Wks Jap., 3(1):56-63
Investigation of the sea floor of
Tsugaru Straits by underwater camera

Description of the "Kakon" underwater
camera, & description of the "micro
topography" of the sea floor in 3
localities off the coast of Japan.

FAO:tl

M

Sasaki, T. & al. (1957) 581144
Rec.oceanogr.Wks Jap., 3(1):92-103
Optical properties of the water in the
Kuroshio current (II)

Description of the extinction meter
used, & horizontal and depth
distribution of extinction coefficient
in the Kuroshio region.

FAO:tl

M

Hiyama, Y. & R. Ichikawa (1957) 581142
Rec.oceanogr.Wks Jap., 3(1):78-84
Up-take of strontium by marine fish
from the environment

Results of laboratory investigations on
the uptake of strontium by different spp.
and Sr concentrations in various parts
of the body.

FAO:tl

M

Marr, J.C. (Ed.) (1957) 581145
Spec.sci.Rep.U.S.Fish Wildl.Serv., (208)
129 p.

Contributions to the study of sub-
populations of fishes

A written symposium by members of
Branch of Fishery Biology of U.S. Fish
& Wildlife Service. See individual
papers: 580742, 581146, 581147, 581148,
581149, 570332, 581150, 581151, 581152,
and 570489.

FAO:sjh

MF

Yasuda, F. & Y. Hiyama (1957) 581143
Rec.oceanogr.Wks Jap., 3(1):85-91
Mechanism of utilization of plankton
by some fishes

Description of the structure of gills &
their filtering mechanism of 7 pelagic
fish spp.; size of food particles &
notes on production of pelagic plankton
feeding fish in the Japan Region.

FAO:tl

M

Marr, J.C. (1957) 581146
Spec.sci.Rep.U.S.Fish Wildl.Serv., (208)
1-6

The problem of defining and recognizing
subpopulations of fishes

Contribution to written symposium
(581145). Definition of terms, summary
of methods & techniques, recent advances.

FAO:sjh

MF

Widrig, T.M. & B.A. Taft (1957) 581147
Spec. sci. Rep. U.S. Fish Wildl. Serv., (208):
29-34

Measurement of population movement by observation of meristic or morphometric characters

Contribution to symposium on sub-populations of fishes (581145). Review of methods & their application to fishery for Sardinops caerulea in East Pacific.

FAO:sjh

MF

Rancy, D.C. (1957) 581150
Spec. sci. Rep. U.S. Fish Wildl. Serv., (208):
85-95

Subpopulations of the striped bass Reccus saxatilis (Walbaum), in tributaries of Chesapeake Bay

Contribution to written symposium on sub-populations of fishes (581145). A review of this problem.

FAO:sjh

MF

Farris, D.A. (1957) 581148
Spec. sci. Rep. U.S. Fish Wildl. Serv., (208):
35-8

A review of paper chromatography as used in systematics

Contribution to symposium on sub-populations of fishes (581145). Application of method to Sardinops caerulea in East Pacific.

FAO:sjh

MF

Marr, J.C. (1957) 581151
Spec. sci. Rep. U.S. Fish Wildl. Serv., (208):
108-25

The subpopulation problem in the Pacific sardine Sardinops caerulea

Contribution to written symposium on sub-populations of fishes (581145). A review of this problem, with an appendix on the design of a tagging experiment.

FAO:sjh

M

Ridgway, G.J. (1957) 581149
Spec. sci. Rep. U.S. Fish Wildl. Serv., (208):
39-43

The use of immunological techniques in racial studies

Contribution to symposium on sub-populations of fishes (581145). Review of method & its application to Oncorhynchus tshawytscha, O. nerka, Cymatogaster aggregata, Gadus morrhua & Platycephalus maculatus.

FAO:sjh

MF

Snieszko, S.F. (1957) 581152
Spec. sci. Rep. U.S. Fish Wildl. Serv., (208):
126-8

Disease resistant and susceptible populations of brook trout (Salvelinus fontinalis)

Contribution to written symposium on sub-populations of fishes (581145). Short account of studies of resistance to furunculosis caused by Aeromonas salmonicida & ulcer disease caused by Homophilus piscium.

FAO:sjh

F

Alexander, M.M. (1958) 581153
Amer. Scient., 46:123-37
The place of aging in wildlife
management

Incl. discussion of age determination
techniques for aquatic & terrestrial
animals; & the interpretation of data
regarding the age composition of animal
populations. Significance of age
composition studies in applied ecology.

:sjh

MF

Norway. Committee for Whaling 581156
Statistics (Ed.) (1958)
Oslo, 75 p.
International Whaling Statistics, 39

Introductory review of statistics for
1955-56 followed by tables of catches &
effort by country, area, species, sex &
size; oil production; measurement of
foetuses.

FAO:sjh

M

Thomas, J.D. (1958) 581154
Proc. zool. Soc. Lond., 130:397-435
Studies on the structure, life history
and ecology of the trematode
Phyllodistomum simile Nybelin, 1926
(Gorgoderidae: Gorgoderinae) from the
urinary bladder of brown trout, Salmo
trutta L.

Detailed ill. description of this
parasite; morphology of adults & larval
infestation experiments with inter-
mediate hosts (Sphaerium cornutum &
perhaps also Phoxinus phoxinus);
behaviour of cercariae, effect on host;
life-history, comparison with other
gorgoderids.
FAO:sjh

F

Norway. Committee for Whaling 581157
Statistics (Ed.) (1958)
Oslo, 56 p.
International Whaling Statistics, 40

Introductory review of statistics for
1956-57 followed by tables of catches &
effort by country, area, species, sex &
size; oil production; measurement of
foetuses.

FAO:sjh

M

Palmer, G. & A.C. Wheeler (1958) 581155
Proc. zool. Soc. Lond., 130:449-54
Teratological examples of an electric
ray, Torpedo nobiliana Bonaparte

Descriptions of 2 abnormal specimens
with pectoral disc notches caught in
North Sea; comparison with other
descriptions in literature.

FAO:sjh

M

Norway. Director of 581158
Fisheries (1958)
Bergen, 92 p.
Norges fiskerier 1956 (Fishery
statistics of Norway 1956) En

Review of sea-fisheries statistics,
followed by tables of catches by spp.,
type of gear, location, months; name &
ill. of spp. caught & types of gear used;
map of fishery districts.

FAO:sjh

M

Shepard, F.P. & G.A. Rusnak (1957) 581159
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):5-13
Texas Bay sediments

Description of sedimentation processes in lagoons & in coastal areas, & distribution of sediment types in Rockport-Aransas Pass area & in Laguna Madre.

FAO:tl

M

Odum, H.T. (1957) 581162
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):38-114
Biogeochemical deposition of strontium

Data on strontium content of sedimentary rocks & present sediments, & discussion of geo- & bio-chemical circulation of strontium.

FAO:tl

MF

Moon, F.W., Jr., C.L. 581160
Bretschneider & D.W. Hood (1957)
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):14-21
A method for measuring eddy diffusion in coastal embayments

Description of method using fluorescein. Data obtained during a preliminary operation run have been analyzed & are included.

FAO:tl

MF

Odum, H.T. & C.M. Hoskin (1957) 581163
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):115-33
Metabolism of a laboratory stream microcosm

Results of study of aufwuchs-slime community metabolism in various conditions in laboratory with special emphasis on the influence of nutrients & speed of flow on the metabolic rate.

FAO:tl

F

Odum, H.T. (1957) 581161
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):22-37
Strontium in natural waters

Methods of analysis, data on strontium content of natural waters & discussion of factors controlling strontium content in waters.

FAO:tl

MF

Brewer, J.P. (1957) 581164
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):134-55
An ecological survey of Baffin and Alazan Bays, Texas

Description of the environment & its biological components (vegetation & faunal list). Discussion of the ecology of mullet, spotted sea trout, rockfish & black drum in the area.

FAO:tl

M

Simmons, B.G. (1957) 581165
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):156-200
An ecological survey of the upper Laguna
Madre of Texas

Description of the physical-chemical
characteristics of the area, list of
flora & fauna, & discussion of their
ecology in relation to environment.

FAO:t1

M

Robinson, M. (1957) 581168
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):265-77
The effects of suspended materials on
the reproductive rate of Daphnia magna

Investigations of the toxicity to
Daphnia of natural suspended material
& of acid-washed materials, & results
of observations in a turbid farm pond.

FAO:t1

F

Loosch, H.C. (1957) 581166
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):201-27
Studies of the ecology of two species of
Donax on Mustang Island, Texas

Description of habitat, migrations,
population density, mortality, predators
commensals, growth, sex ratios &
parasites of the spp.

FAO:t1

M

Bullock, W.L. (1957) 581169
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):278-83
The acanthocephalan parasites of the
fishes of the Texas coast

Taxonomic notes and occurrence of the
parasites from the following families
on various spp. of fish: Rhadinorhynchi-
dae, Gorgorhynchidae, Polymorphidae &
Neocochinorhynchidae.

FAO:t1

M

Humm, H.J. & R.L. Caylor (1957) 581167
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):228-64
The summer marine flora of Mississippi
sound

List of the sea grasses & marine algae
of the area with key.

FAO:t1

M

Fingerman, M., L.D. Fairbanks & 581170
W.C. Plauche (1957)
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):284-92
Body fluid of the oyster Crassostrea
virginica

Determination of body fluid losses after
shucking in spring & fall of oysters
(Crassostrea virginica) grown in
Delaware Bay, Chesapeake Bay &
Louisiana. Determination of
concentrations of chloride &
proteinaceous material in body fluid.

FAO:t1

MF

Lund, E.J. & E. Powell (1957) 581171
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):293-5
Note on the reflex inhibition of water
propulsion by the oyster

Contents as per title.

FAO:tl

M

Lund, E.J. (1957) 581174
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):328-41
Effect of bloodwater, "soluble fraction"
and crude oil on the oyster

Examination of the relative importance of
gravity & self-silting by oysters in the
deposition of a sedimentary layer in
laboratory experiments, with regard to
the operation of such processes in the
field.

FAO:glk

MF

Lund, E.J. (1957) 581172
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):296-311
A quantitative study of clearance of a
turbid medium and feeding by the oyster

Relation of the behaviour of the oyster
to the turbidity of the medium & the
question of the oyster as a contributor
to the process of silting on certain
types of oyster beds.

FAO:tl

M

Allen, R.D. & E.C. Rowe (1958) 581175
Biol.Bull., Woods Hole, 114:113-7
The dependence of pigment granule
migration on the cortical reaction in the
eggs of Arbacia punctulata

Determination of whether pigment granule
migration occurs as a specific inter-
action between cytoplasmic granules &
fertilized, but not unfertilized egg
surface.

FAO:tl

M

Lund, E.J. (1957) 581173
Publ.Inst.Mar.Sci.Univ.Tex., 4(2):313-9
Self-silting, survival of the oyster as
a closed system, and reducing tendencies
of the environment of the oyster

Examination of the effects of self-
silting (as distinct from gravity
deposition within the shell) by: 1)
measurement of survival time with shells
forcibly held closed; 2) analysis of the
development, distribution & magnitude of
redox potential in the materials & fluids
within the shell.

FAO:glk

MF

Chace, F.A., Jr. (1958) 581176
Biol.Bull., Woods Hole, 114:141-5
A new stomatopod crustacean of the genus
Lysiosquilla from Cape Cod, Massachusetts

Description of Lysiosquilla grayi n. sp.
with key to the western Atlantic species
of Lysiosquilla.

FAO:tl

M

Christensen, A.M. & J.J. 581177
McDermott (1958)
Biol.Bull., Woods Hole, 114:146-79
Life history and biology of the oyster
crab, Pinnotheres ostracum Say

Reinvestigation of the biology of the
crab & discussion on the crab-oyster
association.

FAO:tl

M

Johnson, T.W., Jr. (1958) 581180
Biol.Bull., Woods Hole, 114:205-14
A fungus parasite in ova of the
barnacle Chthamalus fragilis denticulata

Description of Lagenidium chthamalophilum
n. sp.

FAO:tl

M

Ganaros, A.E. (1958) 581178
Biol.Bull., Woods Hole, 114:188-95
On development of early stages of
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temperatures and their tolerance to low
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Contents as per title.

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Lynch, W.F. (1958) 581181
Biol.Bull., Woods Hole, 114:215-25
The effect of X-rays, irradiated sea
water, and oxidizing agents on the rate
of attachment of Bugula larvae

Contents as per title.

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Hsiao, S.C. & H. Borouhgs (1958) 581179
Biol.Bull., Woods Hole, 114:196-204
The uptake of radioactive calcium by sea
urchin eggs. I. Entrance of Ca_{45} into
unfertilized egg cytoplasm

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The production of twin embryos in
Dendraster by means of mercaptoethanol
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(containing: references and author index to 581183-581842,
and also geographic index to 580715-581182 [1(4). G1-2])

Errata

Make appropriate amendment to 580726 & 580725 as follows:

Lo Cron, E.D. (1957) 580726
Preprints of papers to Symposium, on
Oct. 4 & 5, 1957, by Institute of
Biology on the Biological Productivity
of Britain, :23-4

The production of fish in fresh waters

A review giving comparative figures for production in different areas & of different spp.; relation of production to harvest; general discussion of biological principles involved in improvement of fish culture.

GLK:sjh

F

Lund, J.W.G. (1957) 580725
Paper presented to the Symposium, on
Oct. 4 & 5, 1957, by Institute of
Biology on the Biological Productivity
of Britain, 4 p.

Primary production in inland waters

A short general review of present ideas on the measurement of algal production, the factors influencing it, & the possibilities of increasing & directing it for economic gain.

SJH:sjh

F

Please note:

Taxonomic Index 1(4) will be published in GBFS 1(6).

Current Bibliography for Fisheries Science - Supplements

Note: Previous issues of this bibliography have included supplements giving, for example, codes used in the preparation of the indexes. In this issue we are initiating the practice of distributing supplements giving other kinds of information which we think might be of interest to librarians and to directors of, and participants in, fisheries research programmes. We have in mind especially accounts of meetings the documents of which may not be easily accessible; notices of publication of new journals and other amendments to the "World Periodicals list for Fisheries Science"; guides to, and general reviews of, literature relating to particular aspects of fisheries science, and so on. We shall be most pleased to receive comments and advice on the usefulness of this proposal.

In the following pages is given an account of two meetings which have recently taken place in the Soviet Union, and reports of which, so far as we know, have not yet appeared in English.

SJH



Lange, A.B. (1958)
Zool.Zh., 37(1):151-6
Second Conference of Embryologists of
the USSR

Abridged translation by G. Orloff.

The Conference took place from January 28 to February 5, 1957 in the Moscow State University, and was concerned with the problem of the relationship between an organism and its environment at different stages of its development.

In all about 150 lectures were delivered and over 500 people from 50 towns participated.

Apart from the plenary meetings, 4 were dedicated to the development of plants, 15 to development of animals and 2 to man.

V.V. Popov (Moscow) lectured on the evolution of form-developing relations of animals and their repetition. He concluded that development of protozoa is based mainly on genotypic relations, while in metazoa, gradient relations (polarity) are added; development of vertebrates is characterized moreover by inductive relations. Endocrinic relations are the last to appear in animal evolution.

B.P. Tokin (Leningrad) discussed briefly the concept of the relations between organisms and their surroundings, as stated in the works of Wolf, Behr, Mochnikov and Kovalevskii; the outlooks on this problem in connection with the mechanism of development (Roux, Speeman, Child etc.); the conception of "surroundings" in the studies of Soviet evolutionary morphologists; the importance, for embryology, of the ideas of Sechenov, Pavlov and Michurin.

G.A. Schmidt (Moscow) stressed the importance of the ecological method in embryology, especially for analysing internal morphogenetic factors, relations between maternal and filial specimens and stages of development, factors of ontogenesis and evolution, etc.

S.V. Emelianov (Moscow), in his talk on "A.N. Severtsov and some basic problems of modern embryology", stressed the necessity of directing the development of animals on the basis of studies of individual evolution and of the influence of altered conditions on the formation of species.

Most of the lectures, delivered at specialized meetings on animal embryology, dealt with experimental embryological research on vertebrates. Much of this work is closely connected with animal production, acclimatization and commercial use of natural resources.

Two meetings were devoted to the problem of the influence of external conditions on reproduction, fertilization and sex determination. Many of the papers dealt with the biology of reproduction and fertility of fish. Statements were made on results of experiments with thermal stimulation of the sexual cycle (N.A. Ioff, Moscow), on the connection between the state of gonads and the pattern of instinct in male and female fishes (T.I. Faleeva, Leningrad).

A.V. Zaitseva (Moscow), A.I. Irakhimovich and A.M. Zelokina (Kishinev) supplied data on the histological changes in the hypophysis and gonads in connection with the conditions of reproduction, the rate of growth and sexual maturity of fishes. Accounts were given of peculiar features of fertilization, in relation to polyspermy of Acipenseridae (by A.S. Ginsburg, Moscow) and of certain viviparous fishes (by D.I. Genin, Kiev), and also of the importance of calcium ions in the process of fertilization and activation of Acipenseridae (by T.A. Detlaf, Moscow).

V.A. Zemskii (Moscow) supplied data on the periodicity of reproduction in Antarctic finback whales, which are of practical use to whalers.

F.A. Turdakov and B.P. Luzhin (Frunze) discussed the influence which fish eggs exercise on each other, particularly the stimulating effect of dissimilation agents of Diptychus dybowskii roe, when concentrated to a certain degree. S.V. Emelianov supplied much information on the successive effect of different factors (degree of spawn ripeness, water current, etc.) on the incubation of sturgeon spawn, and the effect of all such factors on the process of embryogenesis and further development. New data on the relation between the physiological processes of embryogenesis of bony fishes and the oxygen regime were given by G.A. Buznikov.

The structure and function of the oviducal gland of different fishes were dealt with by N.Z. Gerbildkii and G.M. Ignatieva.

The ecologic-embryologic school of ichthyology, typified by S.G. Kryzhanovskii, was represented by S.G. Soin and A.I. Smirnov in their reports on the development of the river Amur and Pacific Salmonidae. They demonstrated the discrepancies between the embryogenesis of closely related species (peculiar development of the vascular system, the function of pigmentation, oxygen relations, etc.) in relation to the conditions in which they develop, and refuted the widespread belief in the conservative theory of early stages of evolution.

G.M. Persov lectured on the position of sexual glands and sex determination of Acipenser ruthenus. I.A. Sadov spoke about the formation of the envelope, the micropyle and perivitelline space of sturgeon roe; P.N. Reznichenko about the function of embryonal movements and the development of breathing in bony fishes. T.S. Rass spoke on stadial development of fishes and its ecological aspects.

One of the meetings dealt with alterations of irritability and the so-called critical periods. This shifts the problem of "stadial-development" into the field of physiology. The concept of critical periods, which emerged mainly from studies of fish, acquires an increasing importance. It is proved that reactions to various agents (temperature, chemicals, etc.) in different periods of development, differ both in their immediate result and in form-development. Periods of greatest sensitivity vary also according to species. M.F. Vernidub indicated their connection, in a general way, with the altering character of metabolism. A.N. Trifonova stated that critical periods coincide with the passage from one morphologic stage to another. T.I. Privolnev characterized critical periods by physiological indices and indicated their coincidence with intensive differentiation. Others spoke of peculiarities of phosphorus exchange and of sulphhydryl groups. There remains a general impression, that the concept of

critical periods of development is still not in accord with the laws of biological stages. Most workers do not concentrate on disclosing the natural laws of alternating basic conditions of development, but dwell on reactions of the organism to various agents, often chosen at random by the researchers themselves.

Two meetings were devoted to birds: biology of reproduction, development of domesticated species as compared with their wild relatives; effect of external agents during incubation; heredity.

Development of mammals was dealt with at two meetings, one of which was concerned entirely with regeneration and to the problem of "cambiality", conceived by Z.S. Katznelson as a self-restoring capacity of tissues (regeneration), as applied to vertebrate animals.

A few lectures were delivered on the question of comparative embryology of an evolutionary character, and they dealt mainly with invertebrata.

V.A. Sveshnikov dealt with geographic distribution of Polychaets. His studies on the development of, and the influence of seasonal phenomena on White Sea Polychaets, led him to the conclusion that the latter may be divided into four groups - arctic, boreal, south-boreal and cosmopolitan - differing in their thermal reproduction optima, phenology and types of development.

At meetings dedicated to problems of development of the nervous system and sense organs V.V. Popov and Z.A. Sokolova referred to their experimental inversion of the crystalline lens of amphibians' eyes; T.A. Sikharulidze supplied some information on the action of chemicals on the process of regeneration of the lens of mammals; E.A. Baburina reported on peculiarities of the development of eyes and their function, studied in different ecological groups of fishes, at various stages of development. The results of studies carried out by N.P. Lebkova on the lateral eyes of lampreys, confirm the primitive state of development of the eye in Cyclostomata.

Talks on the effect of ionizing radiation on the development of organisms were all delivered at one special meeting. Most of the information supplied concerned problems of embryonic and hereditary anomalies (pathogenesis).

The Conference disclosed the fact that Soviet scientists are working most intensively on problems of experimental embryology, which is no longer contained within the limits of "mechanics of development", and they make an extensive use of ecological, physiological, biochemical and biophysical methods.

The lagging of comparative embryology can be judged by the restricted number of types and groups of animals, being studied. Thus, out of the 15 phyla and over 60 classes of living animals, only 5 phyla and 10 classes were dealt with by the participants in their papers. On the other hand only a few attempts were made at the Conference to treat the problems from the standpoint of evolution. In the light of the basic problem of the Conference, almost nothing was said about such important questions of evolutionary embryology, as the historical outlook on oögenesis, sexual processes, origin of larval forms, types of animal metamorphosis; etc.

The Conference stressed the need for establishing a theoretically sound relation between embryology and practical tasks, by intensifying the study of this branch in the Biological and Soil Science faculties of universities; organizing embryology courses at medical, agricultural and piscicultural colleges; the necessity for publishing, under the aegis of the Ministry of Universities, a special embryological journal.

It was decided "to call in 1960 a third All-Union Embryological Conference at the Moscow State University" and to dedicate it to problems of comparative embryology in connection with the centennial of the appearance of Ch. Darwin's, "The origin of species" (end of 1859), and of the 150th year of Lamarck's "Philosophie zoologique".

Nikolskii, G.V. (1958)

Zool.Zh., 37(1):158-60

Second meeting of the International
Commission for Fishery Research in the
Western Pacific

Abridged translation by G. Orloff.

This standing Commission was set up as a result of the agreement between the Chinese People's Republic, the Korean People's Democratic Republic, the Democratic Republic of Vietnam and the Union of Soviet Socialist Republics signed in Peking on the 12th of June 1956. The tasks set before the Commission consist in assisting member nations to carry out research work in pisciculture, oceanology and limnology of the West Pacific Area and to work out measures for intensive breeding of fish and other useful aquatic animals; to promote exchange of information and collections and to assist each other in training specialists. The Minister of Aquatic Products of the Chinese P.R., Siui-De-Khen, was elected Chairman; Prof. P.A. Moiseev (USSR), Kim-Tse-Pir (Deputy Minister of Aquatic Products of the Korean P.D.R.), Lo-Zini-Tring (Deputy Minister of Agriculture and Forestry of the D.R. of Vietnam) were elected Deputy-Chairmen. Prof. Tun-Di-Chow (Chinese P.R.) was elected Scientific Secretary. Four Sections were constituted within the Commission: Sea Fisheries Section (Chief, Prof. V.G. Bogorov, USSR), Inland Fisheries and Limnology Section (Chief, Prof. U-Sen-Ven, Chinese P.R.), Fishery Resources Conservation Section (Chief, Prof. G.V. Nikoloskii, USSR).

The second plenary meeting of the Commission started in the premises of the Biology - Soil Science Faculty of the Moscow State University on the 15th of August 1957. Besides the delegates of the four signatory countries, an observer representing the Mongolian People's Republic and many visitors were present at this session. In his opening speech, the Chairman stated that, thanks to the efforts of its members and experts, the targets set for the Commission were, on the whole, attained. Siui-De-Khen described the problems that have yet to be solved and should be discussed during the meeting. Prof. Tun-Di-Chow reported on the Commission's past activity and working groups were formed for the preparation of decisions to be taken by the Commission. Prof. P.A. Moiseev delivered a lecture on "The biological basis of fisheries' economy in the West Pacific".

The following lectures were delivered during Section meetings on August 16, 17 and 19: "Study of the interdependence of winds and surface sea-currents, within the coastal belt of China" by Guan-Bin-Siang; "Some basic problems of precipitation in the N.W. part of the Pacific Ocean" by A.D. Dobrovolskii; "Geomorphology and tectonics of the N.W. Pacific" by G.B. Udintsev; "Far-East benthos and the laws of its composition and distribution" by P.V. Ushakov; "Biogeographic areas in the N.W. Pacific" by V.G. Bogorov; "Peculiar composition and laws of distribution of zooplankton in the N.W. Pacific" by K.A. Brodskii; "Biogeographic basis of the fish-searching map" by G.U. Lindberg; "Study and culture of sea-kale" by Tsen-Chen-Kui; "Theoretical basis for drawing topographic charts of the sea-bed" by E.F. Gurianova; "Trade and biology of mackerel in the Chefu Weihawei region" by Chow-Shu-Pin; "Korean Gulf mackerel" by Tian-Ir-Khan; "Biology of the mackerel of the Sea of Japan" by A.P. Vvedenskii; "Korean Gulf pollack" by S.M. Kaganovskaia and Tian-ir-Khan; "Yellow perch in the coastal waters of the Yellow Sea" by Kim-Dok-Gien; "Experimental and commercial fishing by use of electric light in the West Pacific" by P.G. Borisov; "Sea fishing in Vietnam" by Huan-Shuen-Hai; "Outline of Chinese fisheries in the Gulf of Tonkin" by Chen-En-Shu. The information, supplied on the behaviour of mackerel and yellow fish, on sea-kale culture and on fishing in the Gulf of Tonkin, greatly interested Soviet scientists.

During meetings held by the Section of Inland Fisheries and Limnology and of Fish Resources Conservation the following papers were presented: "The position of Mongolian bodies of water within the zoogeographic pattern of the Pacific Ocean system" by A. Dashidorji; "Building up of fish resources in water reservoirs of USSR" by P.A. Driagin; "Scientific basis for control over the number of Acipenseridae and the extension of the area they inhabit" by N.L. Gerbil'skii; "Artificial breeding of Acipenseridae" by N.I. Kozhin and O.L. Gordienko; "Characteristics of the environment and fishery resources of the Lake Len-Tzy-Hu" by Lin-Dzin-Kan; "Preliminary report on the type of evolution and biological productivity of Lake Tsinhai" by Li-Shan-Hao; "Methods of Tilapia mosambica breeding" by Tran-Kong-Tam; "Experience and possibilities of breeding rainbow trout in the Korean P.D.R." by Bek-Sen-Hen; "Methods of breeding Ctenopharyngodon idella, Mylopharyngodon piceus and Hypophthalmichthys molitrix" by Ni-Da-Shu; "Data on the production of a winter-resisting breed of carp" by V.S. Kirnichnikov.

G.V. Nikolskii delivered a lecture on "The biological bases for control over fishing" and A.I. Isaev on "The state of fish conservation in USSR".

Among the problems which are on the 1958 program are mentioned the standardization and coordination of methods for carrying out oceanographic, limnological and piscicultural research, as well as the encouragement of scientists to write articles for publication by other countries.

Joint research projects will be conducted in the Yellow Sea, in the Amur river system, in the Gulf of Tonkin, the isle of Haikan area, the Yalu river water reservoir, etc.

The Limnology and Inland Fisheries Section will make a point of working on the problem of forecasting the piscicultural regime of water reservoirs in conditions of the monsoon climate of Eastern Asia.

The third session of the Committee will take place at Pyongyang, in 1958.

AFRICA

Algeria		580979	
Morocco		580948	
Ruanda-Urundi		581068	
Spanish Guinea		581036	
Union of South Africa		580881	

NORTH AMERICA

<u>Canada</u>	580732	580734	580735
	580736	580972	
British Columbia		580739	581066
Newfoundland		580733	580970
<u>Alaska</u>			580794
Pribilof Is.			580838
<u>United States</u>	580749	580795	580858
<u>of America</u>	580895	580897	580953
	580959	580998	581077
USA, District of Columbia			580821
Washington State			581069
Oregon			580827
California	580818	580819	580995
	581003	581004	581006
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Colorado			581070
Wisconsin		580961	580962
Ohio		581012	581013
USA, South			580715
Texas	580822	580992	581159
	581164	581165	581166
	581167	581169	
Arkansas			580769
Louisiana			581170
Massachusetts	580781	580786	580836
	580990	581176	
New York			580490
Virginia			580833
North Carolina			580908
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<u>Bermudas</u>			581071
<u>Greenland</u>			580799

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El Salvador			581028
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Argentina			580741

ASIA

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	580879	580880	580915
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Ceylon			580873
Thailand			580911
Malaya			580875
Indonesia		580788	580789
Java		580790	580791
Philippines			580857
Japan	580834	580923	581101
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	581112	581115	581116
	581117	581120	581123
	581126	581135	581136
	581137	581141	581143
	581144		

Bonin Is.			580938
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EUROPE

Denmark	580835	580844	580851
	581099		
Norway	580748	580793	580810
	580815	580861	581156
	581157	581158	
Sweden	580854	580973	580975
	580976	580977	
Finland	580898	581038	580133
	580134		
Netherlands	580780	580856	581090
Belgium			580866
France		580984	581131
Ireland			580914
United Kingdom	580800	580804	580805
	580806	580916	580917
	581008	581089	
England		580850	581062
Wales			580850
Scotland	580920	581091	581098
Portugal			581033
Italy		580852	580853
Turkey			580744
Germany	580775	581055	581056
Federal Republic of Germany		580855	580862
Switzerland			580889
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OCEANIA

<u>Australia</u>	580723	580774	581053
Western Australia			581032
New South Wales		580722	580724
<u>New Zealand</u>			580816
<u>Hawaiian Is.</u>			580955

UNION OF SOVIET SOCIALIST
REPUBLICS

Russian F.S.S.R.	580770	580773	580792
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<u>Russian F.S.S.R.</u>	580898	580899	580900
	580901	580902	580903
Latvian S.S.R.		580771	580950

ATLANTIC OCEAN

<u>Atlantic, North</u>	580778	580782	580823
	580824	580825	
Atlantic, N.W.	580840	580870	580905
	581076		
Chesapeake Bay	580820	581014	581150
	581170		
North Sea			581093
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Tyrrhenian Sea			580286
Black Sea	580890	580925	580937
Gulf of Guinea		581094	581095

INDOPACIFIC OCEAN	580742	580779	580831
	580832	580986	580989
	581005	581148	581151

<u>Pacific, North</u>	580778	580817	580826
	580829	580952	580958
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Japan Sea		580731	580929
<u>Tropical Indopacific</u>			580807
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Indopacific, Central	580921	580954	581015
East China Sea			581132
Pacific, S.E.			580830

POLAR SEAS

<u>Arctic Ocean</u>			580809
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INLAND SEAS AND INTERTERRITORIAL
LAKE SYSTEMS

East African Lakes			581061
American Great Lakes	580837	580870	580904
Aral Sea	580891	580893	580894

<p>Wilimovsky, N.J. & W.O. 581183 Freihofor (1957) <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (209): 266 p. Guide to literature on systematic biology of pacific salmon</p> <p>General subject index, index of topics by spp. & annotated bibliography.</p>	<p>Baird, R.H. (1958) 581186 <u>World Fish.</u>, 7(6):48-9 Aqualung diving - Threat to fishermen?</p> <p>Popularity of self-containing underwater breathing apparatus has led to complaints from fishermen that divers may interfere seriously with fish stocks, that their nets and lobster pots are likely to be robbed and that the new sport could lead to diminished catches. Article gives facts, and proves that fishermen may gain more from activities of divers than they are likely to lose.</p>
<p>GLK:glk MF</p> <p>Stuart, T.A. (1957) 581184 <u>Freshw.Salm.Fish.Res.</u>, (18):27 p. The migrations and homing behaviour of brown trout (<u>Salmo trutta</u> L.)</p> <p>Describes investigations in Scottish lochs on young and mature fish.</p>	<p>Anonymous (1958) 581187 <u>World Fish.</u>, 7(6):68 Some facts about turbot in Scottish water</p> <p>A summary of an article in December 1957 issue of "Scottish Fisheries Bulletin" (Scottish Home Dept).</p>
<p>FAO:wad F</p> <p>Buchanan, J.B. (1958) 581185 <u>Proc.zool.Soc.Lond.</u>, 130(1):1-56 The bottom fauna communities across the continental shelf off Accra, Ghana (Gold Coast)</p> <p>Describes area covered to depth of 5 fms; physical environment (wave action, currents, particle size of deposits & organic matter, temperature, salinity, nutrients, plankton); the fauna (collecting methods & gear, the animal communities, quantitative analysis. Full bibliography & tables of data.</p>	<p>Anonymous (1958) 581188 <u>World Fish.</u>, 7(6):71 Moderate fishing only forecast for Bear Island</p> <p>Predictions for Cod Fishery in 1958, based on "Fish Stock Record" (2).</p>
<p>FAO:sjh K</p>	<p>SJH:sjh M</p>

Fisher, R.L., A.J. Carsola & G. Shunway (1958) 581189
Deep-Sea Res., 5(1):1-6
Deep-sea bathymetry north of Point Barrow

Description of the bathymetric features of the area.

GLK:tl

M

Richards, A.F. (1958) 581192
Deep-Sea Res., 5(1):29-35

Transpacific distribution of floating pumice from Isla San Benodicto, Mexico.

A probable transpacific drift of floating trachytic pumice originating from the 1952 eruption of Volcán Bárcona on Isla San Benodicto off the west coast of Mexico is reported. Pumice from San Benodicto was collected in the Islas Revillagigedo and on Hawaii, Johnston, Wake & the Marshall Islands.

GLK:tl

M

Koczy, F.F. & M. Burri (1958) 581190
Deep-Sea Res., 5(1):7-17

Essai d'interpretation de quelques formes du terrain sous-marin (Essay on the interpretation of some features of the sub-marine bottom). En

Description of some bathymetric features of the ocean floor, with emphasis on tectonics. The advantage & disadvantages of 2 different nomenclatures are briefly discussed: the descriptive & the genotic approach.

GLK:tl

M

Hassan, J.M. (1958) 581193
Deep-Sea Res., 5(1):36-43

On the wind driven ocean circulation

Consideration of a theoretical model assuming the absence of vertical motion & constancy of the coefficient of exchange of momentum.

GLK:tl

M

Brodie, J.W. & T. Hatherton (1958) 581191
Deep-Sea Res., 5(1):18-28
The morphology of Kermadec and Hikurangi trenches

Bathymetric description of the trench which extends 700 miles from 26°S toward New Zealand. New names, Hikurangi Trench, Colville Ridge, & Havre Trough are proposed for bathymetric features not previously clearly defined.

GLK:tl

M

Weston, D.E. (1958) 581194
Deep-Sea Res., 5(1):44-50

Observations on a scattering layer at the thermocline

Description of the observations of the thermocline & scattering layer in the North Sea, determination of echo reflection coefficient & the variation of the depth of thermocline.

GLK:tl

M

FAO/58/7/5823

Burt, W.V. (1958) 581195
Deep-Sea Res., 5(1):51-61
Selective transmission of light in
tropical Pacific waters

Transmission of light was measured at
thirteen wave lengths on 46 water
samples drawn from the ocean in the
eastern tropical part of the Pacific
Ocean. A comparison with other
oceanographic light-transmission data is
made.

GLK:tl M

Ladd, H.S. & J.I. Tracy Jr. (1957) 581198
Deep-Sea Res., 4:218-9
Fossil land shells from deep drill holes
of the Pacific atolls

Contents as per title.

:tl M

Richardson, W.S. & C.H. 581196
Wilkins (1958)
Deep-Sea Res., 5(1):62-71
An airborne radiation thermometer

An instrument for measuring
sea surface temperatures from
aircraft is described.
Infra-red radiation from the water
surface is compared with the radiation
from a black body at known temperature
within the instrument.

GLK:tl M

Stommel, H. (1958) 581199
Deep-Sea Res., 5(1):80-2
The abyssal circulation

An outline of the flow pattern for the
abyssal circulation of the world ocean.

GLK:tl M

Kuonen, Ph.H. (1958) 581197
Deep-Sea Res., 5(1):79
Fossil land shells from deep drill
holes of the Pacific atolls

Review of 581198.

GLK: M

Marshall, A.R. (1958) 581200
Tech.Scr.Fla Bd Conserv., (22):39 p.
A survey of the snook fishery of Florida,
with studies of the biology of the
principal species, Centropomus
undecimalis (Bloch)

Spp. composition of catch; history,
methods of capture, gear selectivity,
places & seasons of fishing, production
statistics; condition of fishery;
bionomics & ecology of the spp.

FAO:sjh M

Cordone, A.J. (1958) 581201
Calif. Fish Game, 44:205
The physiology of fishes. II. Behaviour
Review of 570208.

SJH:

MF

Mosstorff, J. & R. Steinberg (1958) 581204
Fischwirt, 8:47-56
Über die Verwendungsmöglichkeiten von
Echoloten in der Binnenfischerei
(On the possibilities of using echo-
sounders in inland fisheries)

Description of small echosounders from
different manufactures and their
possible use in inland fisheries and
limnology.

FAO:tl

F

Scattergood, L.W. (1957) 581202
Res. Bull., Maine, (26)
A bibliography of the herring (Clupea
harengus & C. pallasii)

108 pages of titles & references listed
in alphabetical order of authors' names;
special attempt was made to make this
complete for C. harengus stock of N.W.
Atlantic. Reports on catching, processing
& marketing not indicated unless they
contain also information on biology.

FAO:sjh

M

Cagle, F.R. (1957) 581205
Louisiana Conserv., 9(7):2-3
Is turtle destroyer of fish and game?

Popular description of feeding habits
& biotic relations.

FAO:glk

Bahr, K. (1958) 581203
Fischwirt, 8:29-42
Gemeinsame Bewirtschaftung des Rhein-
stromes durch Berufs- und Sportfischer
Erfahrungen aus der hessischen Rhein-
fischerei (Joint management of the
Rhine by professional and sports fisher-
men. Experiences from the Rhine fishery
in Hesson)

Morphological description of Rhine in
Hesson; distribution of the fishery
between professional & sports fishermen;
improvement of fishery, & description &
amounts of gear. General evaluation of
the fishery in Hesson is also given.

FAO:tl

F

Viosca, P., Jr. (1957) 581206
Louisiana Conserv., 9(7):10-3, 20-1
Shrimp potpourri

Popular account of the industry with
description of some spp.: Penacus
sotiferus, P. aztecus, P. duorarum,
Xiphopenacus kroyeri, Macrobrachium
ohione & M. acanthurus.

FAO:glk

M

<p>International Commission for the 581207 Northwest Atlantic Fisheries (1958) <u>Halifax</u>, 58 p. Statistical Bulletin vol. 6 for the year 1956</p> <p>In 2 parts: summary of fishery in Convention area 1952-56, no. of vessels fishing in 1956, list of common & scientific names of spp.; lists of abbreviations, symbols & conversion factors, tables for landings of each sp. by area, gear, month & country, & for fishing effort expended. Appendix gives corrections to Vol. 5.</p> <p>SJH:sjh MF FAO:hr M</p>	<p>581209 (Card 2)</p> <p>operations carried out in the bank of Avinö on the coast of Norway.</p>
<p>Toiling, M. (1957) 581208 <u>Bot. Notiser</u>, 110(1):49-82 Morphological investigations of asymmetry in desmids</p> <p>Discusses terminology & different types of asymmetry, & their morphological & taxonomic significance.</p> <p>FAO:tjj MF FAO:hr M</p>	<p>Berthois, L. (1957) 581211 <u>Rev. Trav. Off. Pêche marit.</u>, 21:485-554 Recherches sur les sédiments de la mer du nord et de la mer d'Irlande (Research on the sediments of the North and Irish Seas)</p> <p>Studies of the granulometry of the sediments, total nitrogen content, morphometry & lithology of gravel, etc.</p>
<p>Ancellin, J. (1957) 581209 <u>Rev. Trav. Off. Pêches marit.</u>, 21:449-84 Observations sur la faune et les fonds de pêche de quelques secteurs de la Manche et des mers nordiques) (Observations on the fauna and fishing banks of some areas of the English Channel & the Northern Seas)</p> <p>Gives a list of invertebrates dredged at several stations in the North Sea & English Channel, & information on the topography, hydrography, (salinity, temper- ature & currents), nature of bottom, & fauna (benthic invertebrates & fishes) collected during dragging & trawling</p> <p>FAO:hr M</p>	<p>Balloy, M. (1957) 581212 <u>Rev. Trav. Off. Pêche marit.</u>, 21:555-60 Résultats de quelques expériences sur l'élevage d'animaux et d'algues en aquarium d'eau de mer fonctionnant en circuit fermé (Results of some experiments to raise animals & algae in a salt water aquarium operating on a closed circuit)</p> <p>Experiments & observations on the role of different organic & inorganic chemical agents.</p>

de La Tourrasse, G. (1957) 581213
Rev.Trav.Off.Pêche marit., 21:561-92
La pêche au thon sur la côte basque
poursuit sa modernisation (The tuna
fishery on the Basque coast continues
its modernization)

Reviews the improvements which have been
made since 1952 to bait tanks, fishing
operations, and fishing craft.

FAO:hr

M

Klopov, S.V. (1957) 581216
Priroda, Moskva, 46(9):13-22
Problema Amura (River Amur problems)

Deals mainly with industrial
& agricultural problems, hydro-electric
power plants & flood control. Attention
is called to the necessity of providing
hydraulic structures with fish-ways, in
order not to impede the spawning run of
salmonidae, & of stocking artificial
water reservoirs with fish.

FAO:go

F

Mordukhai-Boltovskoi, F.D. (1957) 581214
Priroda, Moskva, 46(7):99-100
Kaspiiskie nizidy v roke Shoxna
(Caspian mysidae in the river Shoxna)

Capacity of upstream migration of
mysidae. Description of specimens found
in the river Shoxna (left-bank tributary
of the Volga), over 3000 km from the
Caspian Sea.

FAO:go

MF

Balabanova, Z.M. (1957) 581217
Priroda, Moskva, 46(9):55-60
Za chistotu vodocmov Urala (In
defense of the purity of Ural water
courses & reservoirs)

Describes the disastrous effect of water
pollution by industrial concerns, which
are mostly deprived of adequate
purifying contrivances. Points out a few
cases, which prove that it is possible
not only to avoid pollution, but even to
improve the quality of water & silt by
proper treatment of industrial waste.

FAO:go

F

Kloinonberg, S.E. (1957) 581215
Priroda, Moskva, 46(7):101-3
Ob okhrano morzha (Walrus
conservation)

Description of the animal, its habits &
abodes. Commercial use, degree of
extermination & conservation measures.

FAO:go

M

Richter, G.D. (1957) 581218
Priroda, Moskva, 46(9):95-8
Ozera Zapadno-Sibirskoi nizmonnosti
(Lakes of the West Siberian low lands)

Description of the numerous lakes & a
tentative classification, according to
their size, shape, surroundings &
supposed origin. In only one instance
the author refers to living organisms,
when he states that small lakes with
peaky banks "are almost devoid of plant
or animal life."

FAO:go

F

<p>Dolgopolov, K.V. & E.F. (1957) 581219 Fedorova (1957) <u>Priroda, Moskva, 46(10):63-72</u> Na beregakh volikoi Russkoi roki (On the shores of the great Russian river)</p> <p>Description of the Volga regions. Attention is paid mainly to the industrial development. The author states that when the riverflow will be entirely under control, the Volga discharge into the Caspian shall be reduced by 60% & fish production will drop by 130,000 tons.</p> <p>FAO:go F</p>	<p>Postnov, V.A. (1957) 581222 <u>Priroda, Moskva, 46(10):108-9</u> Novoc ekspoditsionnoo sudno MIKHAIL LOMONOSOV (Now scientific-expedition ship MIKHAIL LOMONOSOV)</p> <p>Description of the newly built ship, equipped for scientific research. The ship is assigned to the North Atlantic. Data will be collected on atmospheric processes, origin of cyclones & anti-cyclones, relief & geologic structure of the ocean bottom, currents, magnetic fields, salinity & light distribution, zoo- & phytoplankton, etc.</p> <p>FAO:go M</p>
<p>Vinogradov, M.M. (1957) 581220 <u>Priroda, Moskva, 46(10):89-92</u> Ozora Antarkticheskogo "Oazisa" (Lakes of the Antarctic "Oazi").</p> <p>Description of unfrozen lakes & fjords, explored by Soviet scientists in January 1956. The phytoplankton consists of several genera of algae. As regards zooplankton, a species of <u>Acanthocyclops</u> was discovered in a freshwater lake, & Nematodes were found in saltwater lakes.</p> <p>FAO:go MF</p>	<p>Kuznetsov, N.T. (1957) 581223 <u>Priroda, Moskva, 46(12):38-9</u> V Turgaiskoi lozhbino (The Turghai valley)</p> <p>The main aim of the article is to promote wildlife conservation measures. The fish resources of the valley's lakes are threatened by the creation of artificial water reservoirs on agricultural concerns, which draw on the main water resources of the lakes - snow. Organized maintenance of these lakes must be ensured.</p> <p>FAO:go F</p>
<p>Movchan, V.A. (1957) 581221 <u>Priroda, Moskva, 46(10):107-8</u> Rybovodstvo v kolahozakh i sovrkhozakh (Fish breeding on collective & state farms)</p> <p>Notes on the conference held in March 1957 by the All-Union Academy & Ministry of Agriculture of USSR. Statements on areas under pisciculture, yields & returns of fish farming. Necessity stressed for improved qualification of specialists & for organizing selected fish nurseries.</p> <p>FAO:go F</p>	<p>Kozlov, V.V. (1957) 581224 <u>Priroda, Moskva, 46(12):40</u> O zagriaznionii roki Yonisci (Pollution of the river Yonisci)</p> <p>The author states that practically nothing is done to prevent industrial concerns from discharging noxious waste into rivers. Long sections of the Yonisci around cities are poisoned. 200 km of the R. Kan, 100 km of the R. Abakan, and lake Piasino have lost most of their fish resources.</p> <p>FAO:go F</p>

Kurenkov, I.I. (1957) 581225
Priroda, Moskva, 46(12):49-54
Vozdeistvie vulkanizma na rechnin
faunu (Influence of volcanism on the
river fauna in Kamchatka)

Ash, deposited by volcano eruption on
river beds, smothered the benthos.
Acidity increased. Benthos feeders
suffered more than Salmonidae. Spawning
ground was buried. Spawn suffers, even
when no eruptions occur, from infiltra-
tion of noxious substances, carried by
springs at the foot of volcanos, & from
repeated earthquakes.

FAO:go

F

Ermolonko, V.M. (1957) 581228
Priroda, Moskva, 46(12):115-6
Krab-plavunots (Portunus holsatus
Fabr.)

Description of this small Black Sea
crab & of its habits, particularly of
the use it makes of jelly-fish &
floating algae as a means of
transportation.

FAO:go

M

Shkola, V.I. (1957) 581226
Priroda, Moskva, 46(12):60-5
Antibiotiki v zhivotnovodstve (Use
of antibiotics in zooculture)

The author states that experiments have
been carried out with feeding
antibiotics to carp: 25-50 mg per 1 kg of
feed, produced a 10-15% increase in
weight.

FAO:go

F

Klinglor, K. (1957) 581229
Schweiz.Z.Hydrol., 19:565-78
Natriumnitrit, ein langsamwirkendes
Fischgift (Sodium nitrite, a slowly
affecting fish poison)

Investigations on the influence of
various doses of the chemical on fish
and description of the symptoms of the
poisoning.

FAO:tl

F

Tarasov, N.I. (1957) 581227
Priroda, Moskva, 46(12):101-2
Eshche raz o svochenii moria (More
about luminiscence of the sea)

The author complains of the difficulties
met with in attempting a thorough study
of this phenomenon & of the living
organisms which are responsible for it.
Descriptions are drawn mainly from the
English periodicals "Marine Observer" &
"Nature".

FAO:go

M

Hamman, A. (1957) 581230
Schweiz.Z.Hydrol., 19:579-612
Assimilationszahlen submerser Phanero-
gamen und ihre Beziehung zur Kohlensäure-
versorgung (Assimilation numbers of
submerged Phanerogams and their relations
to the supply of carbon dioxide)

Investigations of the influence of
various environmental factors & the
relation between surface area of the
plant & chlorophyll content on the
assimilation number.

FAO:tl

F

Fjeldstad, J.L. (1958) 581231
J. Cons.int.Explor.Mer, 23:147-50
Harald Ulrik Sverdrup, 1888 - 1957

An obituary and short biography of this oceanographer.

GLK:sjh

M

Lee, A.J. & G.C. Baxter (1958) 581234
J. Cons.int.Explor.Mer, 23:157-60
A note on the use of the Nansen-Pettersson water-bottle

Report on tests of insulating properties. Comparison with theoretical predictions.

GLK:sjh

M

Tait, J.B. (1958) 581232
J. Cons.int.Explor.Mer, 23:151-4
Harold Thompson, 1890 - 1957

An obituary and short biography of this fisheries biologist.

GLK:sjh

M

Buchanan-Wollaston, H.J. (1958) 581235
J. Cons.int.Explor.Mer, 23:161-72
Statistical tests for significance applicable to distributions in space

Applications of non-integral multinomial distributions, and normal chi-square approximation, to angular measurement of currents by Carruthers Drift Indicator, residual currents, & fish-marking experiments.

GLK:sjh

MF

Boury, M. (1958) 581233
J. Cons.int.Explor.Mer, 23:155-6
Louis Lambert, 1886 - 1957

An obituary & short biography, with account of his contributions to shell fish culture.

GLK:sjh

M

Marshall, P.T. (1958) 581236
J. Cons.int.Explor.Mer, 23:173-7
Primary production in the Arctic

An attempt to account for facts that in Arctic water over Bear I. bank, production starts in April, but not until June in deeper Atlantic water of western Barents Sea, & that a phytoplankton outburst takes place in wake of north-east wardly receding ice, by Sverdrup's (1953) theory of interaction of critical depth with that of homogeneous layer.

GLK:sjh

M

Nielsen, L. Steemann (1958) 581237

J. Cons. int. Explor. Mer., 23:178-88

The balance between phytoplankton and zooplankton in the sea

A review of the relations between standing crops, turnover & distributions of zoo- & phyto-plankton, with comment on bias in net-samples, & the effect of grazing under stable hydrographic conditions.

GLK:sjh

M

Birkett, L. (1958)

581240

J. Cons. int. Explor. Mer., 23:202-7

A basis for comparing grabs

Comparative tests, on the Dogger Bank, of Petersen & van Veon benthos grabs. Sampling efficiency & its relation to depth of penetration of sea-bed by grab jaws; implications of this bias.

GLK:sjh

M

Nicholson, H.F. (1958) 581238

J. Cons. int. Explor. Mer., 23:189-91

Mechanical pipette for picking out diatoms

An electrically controlled apparatus is described & ill. which picks up the larger diatoms mechanically. It requires no special parts and is made from easily available components.

GLK:sjh

M

Wise, J.P. (1958)

581241

J. Cons. int. Explor. Mer., 23:208-12

The world's southernmost indigenous cod

Report on results of Gadus callarias L. tagging off the coast of New Jersey, U.S.A.

GLK:sjh

M

Saville, A. (1958) 581239

J. Cons. int. Explor. Mer., 23:192-201

Mesh selection in plankton nets

Comparative experiments with covered nets, and paired hauls of various mesh-sizes; selection curves for copepods, molluscan & annelid larvae, & fish eggs.

GLK:sjh

M

Dragesund, O. (1958)

581242

J. Cons. int. Explor. Mer., 23:213-27

Reactions of fish to artificial light, with special reference to large herring and spring herring in Norway

Experiments on behaviour of Clupea harengus using lights & echo-sounder; relation to hydrographic & plankton conditions.

GLK:sjh

M

<p>Bolster, G.C. (1958) 581243 <u>J. Cons. int. Explor. Mer.</u>, 23:228-34 On the shape of herring schools</p> <p>Echo-survey using Decca navigator in English Channel to plot shoals of <u>Clupea harengus</u> & relate their alignment to tidal streams & topographic features of sea-bed. Relation of results to conduct of drift-net fishing.</p> <p>GLK:sjh M</p>	<p>Baird, R.H. (1958) 581246 <u>J. Cons. int. Explor. Mer.</u>, 23:249-57 Measurement of condition in mussels and oysters</p> <p>Comparisons of various methods for <u>Mytilus</u> & <u>Ostraca</u> leads author to conclusion that volume measurements of whole organism, shell, & meat are satisfactory & convenient. Criteria for selection of samples; relation of condition to size & spawning period.</p> <p>GLK:sjh M</p>
<p>Farris, D.A. (1958) 581244 <u>J. Cons. int. Explor. Mer.</u>, 23:235-44 Diet-induced variation in the free amino acid complex of <u>Sardinops caerulea</u></p> <p>Paper partition chromatographic analysis of amino-acid content of pectoral muscle; relation of concentration of various acids to diet & condition; significance of results for use of this method for study of systematics of populations of sub-specific rank.</p> <p>GLK:sjh M</p>	<p>Jordan, H.D. (1958) 581247 <u>World Crops</u>, 10:83-6 Rice destruction by crabs</p> <p>Damage caused by <u>Sarmatium curvatum</u>, <u>Sesarma alberti</u>, <u>S. angolense</u> & <u>S. huzardi</u> feeding on rice seedlings cultivated on tidal mangrove swamps of Sierra Leone.</p> <p>FAO:sjh MF</p>
<p>Mauchline, J. (1958) 581245 <u>J. Cons. int. Explor. Mer.</u>, 23:245-8 An improved instrument for measuring small crustacea</p> <p>Ill. description of instrument for measuring prawns Screw micrometer modified so that measurements could be made between two jaws, one fixed & one floating. The fixed jaw is independent of the fixed micrometer anvil, & its position relative to the floating jaw can be altered.</p> <p>GLK:sjh M</p>	<p>Rounsefoll, G.A. (1957) 581248 <u>Fish. Bull., U.S.</u>, (122):451-68 Fecundity of north American Salmonidae</p> <p>Review & analysis of published data for <u>Salvelinus</u>, <u>Oncorhynchus</u> & <u>Salmo</u>. Variability between stocks, & differences in average size of fish & age at maturity.</p> <p>FAO:sjh MF</p>

Morcier, P. (1957) 581249
Schweiz.Z.Hydrol., 19:613-23
L'aération naturelle et artificielle
des lacs (Natural and artificial
aeration of lakes)

Study of the effect of aeration on the
purification & quality of the natural
water used for domestic purposes.

FAO:t1

F

Tucker, M.J. (1958) 581252
J.Cons.int.Explor.Mer, 23:259-61
General oceanography

Review of 570429.

GLK:

M

O.H.S. (1958) 581250
J.Cons.int.Explor.Mer, 23:258-9
The flow of water through the Straits of
Dover related to wind and differences
in sea level

Review of original article with the
same title by Bowden, K.F., 1956,
Phil.Trans., 248A(953):517-51.

GLK:

M

Kalle, K. (1957) 581253
Ber.dtsch.Komm.Meeresforsch., 14:313-28
Chemische Untersuchungen in der
Irminger See im Juni 1955 (Chemical
investigations in the Irminger Sea in
June 1955)

Sections for phosphate, dissolved
oxygen, intensity of fluorescence &
degree of turbidity are discussed with
reference to water movements & in situ
processes.

FAO:glk

M

O.H.S. (1958) 581251
J.Cons.int.Explor.Mer, 23:259
Currants in Sea Straits

Review of original article in German
by Defant, A., (1955), Dtsch.hydrogr.Z.,
8(1):1-15.

GLK:

M

U.S. (1958) 581254
J.Cons.int.Explor.Mer, 23:261-2
Chemical investigations in the
Irminger sea in June 1955

Review of 581253.

GLK:

M

Wüst, G. (1958) 581255
J.Cons.int.Explor.Mer, 23:263-4
The bottom water. II Temperature. The
SNELLIUS expedition in the eastern part
of the east Indian Archipelago 1929-1930

Review of original article with the same
title by van Riel, P.M., (1956), E.J.
Brill, Leiden, Vol. II, 5(2).

GLK: M

Jensen, Aa.J.C. (1958) 581258
J.Cons.int.Explor.Mer, 23:267-8
Biological and hydrological factors
controlling the migration of mackerel
from the Black Sea to the Sea of Marmara

Review of original article with the same
title by Demir, M. & A. Acara, (1955),
Proc.gon.Fish.Coun.Modit., 3:365-76.

GLK: M

Woenink, M.P.H. (1958) 581256
J.Cons.int.Explor.Mer, 23:264-6
The computation of oceanic and
meteorological fields of motion with
friction proportional to the velocity

Review of original article with the
same title by Wyrski, (1956), J.mar.Res.
Indonesia, 2:1-26.

GLK: M

Stott, B. (1958) 581259
J.Cons.int.Explor.Mer, 23:268
Artificial hybridization between
different species of the salmon family

Review of original article with the same
title by Alm, G., (1955), Rep.Inst.
Freshw.Res.Drottning., (36):13-56.

GLK: MF

Groen, P. (1958) 581257
J.Cons.int.Explor.Mer, 23:266-7
Partition of energy between geostrophic
and non-geostrophic oceanic motions

Review of original article with the
same title by Veronis, G., (1956),
Deep-Sea Res., 3:157-77.

GLK: M

S.S. (1958) 581260
J.Cons.int.Explor.Mer, 23:269-70
Investigations on age and growth-rate of
eel population in the Sakrower Sea

Review of the original article in German
by Rahn, J., (1955), Z.Fisch., 4(3-4):
235-56.

GLK: MF

Arakawa, H. (1957) 581261
Geofis.pur.appl., 38:231-49
On typhoon storm tides

M

Curl, H., Jr. (1957) 581264
Q.J.Fla Acad.Sci., 20:205-8
Changes in bottom topography off
Alligator Harbor since 1889

Contents as per title.

GLK:tl

M

Beneo, E. & R. Cassinis (1957) 581262
Geophys.Prospectg., 5:82
The bottom of the Strait of Messina:
geological and geophysical studies

M

Darbyshire, J. (1957) 581265
Dock Harb.Author., 38:277-8
Sea conditions at Tema Harbour:
Analysis of wave recorder observations

M

Biriconmater, K. (1957) 581263
Przepl.Geofiz., 2(10):165-78
Turbidity currents in the marine
environment

M

Deacon, E.L. (1957) 581266
Bull.Amer.met.Soc., 38:540-2
The stress of light winds on the sea

M

Deacon, G.E.R., R.C.H. Russell & J.L.G. Palmer (1957)
581267
Int.Nav.Congr.S 2 C 1, London, 19 p.
Long waves

M

Horton, J. Warren (1957) 581270
U.S.Navy Underwater Sound Lab.Res.Rep.,
(344):8 p.
The effect of the earth's curvature on
sound ray paths in the sea

M

Emery, K.O. (1958) 581268
Bull.geol.Soc.Amer., 69:39-60
Shallow submerged marine terraces of
southern California

M

Inglis, C.C. & F.H.Allon (1957) 581271
Min.Proc.Instn civ.Engrs, 7:827-78
The regimen of the Thames estuary as
affected by currents, salinities and
river flow

MF

Greenspan, M. & C.E. Tschigg (1957) 581269
Rev.sci.Instrum., 28:897-901
Sing-around ultrasonic velocimeter for
liquids

M

Inman, D.L. (1957) 581272
Tech.Memor,U.S.Army Engs.Bd, (100):44 p.
Wave-generated ripples in nearshore
sands

M

<p>Jagodzinski, Z. (1957) 581273 <u>Acad. Polon. Sci., Com. Geod.</u>, 9 p. Multiple echoes in echosounders and the probability of detection of small targets</p> <p style="text-align: right;">M</p>	<p>Japan, Meteorological Agency (1957) 581276 <u>Met. Data Antarctic Ocean</u>, 1:38 p. (Statistical data observed on board the Japanese whaling ships for 10 years commencing at 1946). <u>Ni</u></p> <p style="text-align: right;">M</p>
<p>Germany, Seewetteramt (1957) 581274 <u>Einzelveröff.</u>, (15):109 p. Meteorologische Beobachtungen von deutschen Feuerschiffen der Nord- und Ostsee (Bundesrepublik) 1954 (Meteorological observations on German light-ships in the North Sea and in the Baltic)</p> <p style="text-align: right;">M</p>	<p>Kolp, O. (1957) 581277 <u>Ann. Hydr.</u>, 8:37-47 Die Schwormineralanteile verschiedener Meeresbodenarten der Beltsee (The proportions of heavy minerals in different kinds of sea-bottom in the Belt-sea)</p> <p style="text-align: right;">M</p>
<p>Goedecke, E. (1957) 581275 <u>Ann. Met.</u>, Hamburg, 8:80-92. Neuere Untersuchungen über die Vorbereitung- und Abschmelzzeit des Eises in der deutschen Bucht und westlichen Ostsee (Recent investigations on the preparation and melting period of the ice in the German Bight and in the western Baltic)</p> <p style="text-align: right;">M</p>	<p>Mankowski, W. (1957) 581278 <u>Przegl. Geofiz.</u>, (2)10:137-53 Zmiany stosunków hydrologicznych w Bałtyku w okresie 1946-1956 w świetle badań polskich (Changes in hydrographic relations in the Baltic 1954-56 in the light of Polish research)</p> <p style="text-align: right;">M</p>

Moore, D.G., & P.C. 581279
Scruton (1957)
Bull.Amer.Ass.Petrol.Geol., 41:2723-51
Minor internal structures of some
recent unconsolidated sediments

M

Saint-Guily, B. (1957) 581282
Bull.Inst.oceanogr.Monaco, 1108:10 p.
Les méandres des vécines de courant dans
les océans (Current meanders in
the oceans)

M

Ryzhkov, Yu.G. (1957) 581280
C.R.Acad.Sci.U.R.S.S., 113:787-90
(Measurement of the electrical
current in an ocean). Ru

M

Schemainda, R. (1957) 581283
Ann.Hydr., 8:48-64
Die oceanographischen Veränderungen im
Bornholmtief in den Jahren 1951-1955
(Oceanographic changes in the Bornholm-
depth during the years 1951-1955)

M

Sager, G. (1957) 581281
Ann.Hydr., 8:23-36
Zur quasilinearen Abbildung im Rauschel-
bach-Hochseepegel (On the almost
linear description of the water-gauge
in the Rauschelbach-Hochsee)

M

Sibul, O.J. & J.W.Johnson (1957) 581284
Proc.Amer.Soc.civ.Engrs, J. Waterways
Harb.Div., 83WWI:1210-1, 1210-32
Laboratory study of wind tides in
shallow water

M

Słomianko, P. (1957) 581285
Przegl.Geofiz., 2(10):179-84
Przyczynki do analizy ruchu rumowiska
morskiego (Reasons for analyzing
movement of marine debris)

M

Wüst, G. (1957) 581288
Wiss.Ergebn.dtsch.atlant.Exped.METEOR,
6(2):261-420
Stromgeschwindigkeiten und Strommengen
in den Tiefen des Atlantischen Ozeans,
Quantitative Untersuchungen zur Statik
und Dynamik des Atlantischen Ozeans
(Velocities and quantities of currents
in the depths of the Atlantic Ocean.
Investigations as to quantity on
statistics and dynamics of the Atlantic
Ocean.

M

Smith, W.O. (1958) 581286
Bull.geol.Soc.Amer., 69:69-98
Recent underwater surveys using low-
frequency sound to locate shallow
bedrock

M

Kotthaus, A. (1958) 581289
Allg.FischwirtschaftZtg., 10(21):8-11
Untersuchungen über den Schollenbestand
der südöstlichen Nordsee im Jahre 1957
(Investigations on the plaice stock in
the south-eastern North Sea in the year
1957)

Age composition, growth, relative
population densities of different year
classes, length composition of catches
and comparison between investigations at
sea and on fish market.

FAO:t1

M

Szyborski, S. (1957) 581287
Przegl.Geofiz., 2(10):155-64
Współczesne problemy falowania
(Current wave problems)

M

Bückmann, A. (1958) 581290
Allg.FischwirtschaftZtg., 10(21):11-2
Forschungsfahrt des FFS ANTON DOHRN in
das Gebiet Island - Grönland
(Expedition of FRV ANTON DOHRN in the
Iceland - Greenland area)

Short account of the work done on the
expedition for polar front survey
(27.II - 22.IV 1958).

FAO:t1

M

Bal, D.V. & K.H. Mohmed (1957) 581291
J. Bombay nat. Hist. Soc., 54:732-40
A systematic account of the eels of
Bombay

MF

Gokhale, S.V. (1957) 581294
J. Bombay nat. Hist. Soc., 54:714-25
Operation of the Dol net off the
Saurashtra coast

M

Bhuiyan, A.L. (1957) 581292
B. Pakist. Inform., Dacca, 7(2-3):33-8
Migration of marine fishes in East
Pakistan

M

Hashmi, T.A. (1957) 581295
Biologia, 3(1):73-121
The skeleton of Rita rita Hamilton:
Teleostei, Siluridae

F

Waldron, K.D. (1958) 581293
Contr. Fish. Comm. Oro., (24):43 p.
The fishery and biology of the
Dungeness crab (Cancer magister Dana)
in Oregon waters

Describes fishery & its history;
catches, gears used, areas & seasons of
fishing, regulations; results of
tagging (growth & movements); maturity,
aquarium experiments.

SJH:sjh

M

Ibrahim, K.H. (1957) 581296
J. Bombay nat. Hist. Soc., 54:826-34
Bionomics of forage fishes:
observations on the fecundity of 3
common spp. of minor barbels

F

<p>Job, S.V. (1957) 581297 <u>Proc.Indian Acad.Sci.</u>, 45B(6):302-13 The routine active oxygen consumption of the milk fish (m) Physiological experiments on <u>Chanos chanos</u>.</p> <p>:sjh MF</p>	<p>Krishnamurthi, B., K.A.Dorairajah 581300 & A.D. Venkatasamy (1957) <u>Proc.Indian Acad.Sci.</u>, 45B(4):165-75 An investigation of largo-scale fish mortality in a temple tank in Madurai</p> <p>F</p>
<p>Kewalramani, H.G. & B.F. 581298 Chhapgar (1957) <u>J.Bombay nat.Hist.Soc.</u>, 54:770-3 Occurrence of a rare sting ray (<u>Tacniura melanospila</u> Bleeker) in Bombay waters</p> <p>M</p>	<p>Marathe, V.B. & R.S. 581301 Kulkarni (1957) <u>J.Univ.Bombay</u>, 25B(41)Pt. 5:29-40 The circulatory system of <u>Ophicephalus striatus</u> Bloch</p> <p>F</p>
<p>Jensen, P.T. (1958) 581299 <u>Adri.Rep.Inl.Fish.Calif.</u>, (58-1):39 p. Catchable trout studies in region II, 1957 Crool consus following planting of marked fish, checked with electrical shocking.</p> <p>WAD:tjj F</p>	<p>Roy, J.C. & N. Sahoo (1957) 581302 <u>J.Bombay nat.Hist.Soc.</u>, 54:949-53 Additions to the fish fauna of the Chilka Lako: India</p> <p>MF</p>

Sufi, S.M.K. (1957) 581303
Pakist.J.Sci., 9(4):170-2
Occurrence of fishes of the genus
Glyptothorax in Poshawar and Hyderabad
divisions of West Pakistan

F

A. & M. Colloge of Texas, Dept. 581306
of Oceanography & Meteorology (1958)
Colloge Station, Texas, 14 p.
Catalogue of IGY oceanographic data in
IGY World Data Center A

Lists, for each country, time & kind of
obsorvations made at each station.

TL:sjh

M

Tampi, P.R.S. (1957) 581304
Proc.Indian Acad.Sci., 46B(4):254-73
Some observations on the reproduction
of the milkfish (Chanos chanos Forskål)

MF

Abidin, G., K. Kaisi & 581307
F. Naib (1957)
Bull.Coll.Arts Sci., Baghdad, 2:21-43
Some observations of the algal flora in
and around Baghdad

Introductory study based on material
collected during frequent visits to
places where vegetation of new spp.
proved promising.

:sjh.

F

Tolgay, Z. (1957) 581305
Ask.vet.Derg., 35(200-1):68-74
Investigations on the chemical
composition of Pelamids: Sarda sarda.
En Tu

Abstract presented at the 4th Meeting
of the General Fisheries Council for
the Mediterranean.

M

Percier, A. (1958) 581308
Rev.Trav.Off.Pêche marit., 22(1):7-30
Les spécifications des engins de pêche
(Specifications of fishing gear)

Describes the manufacture of fishing
gear & defines sizes & measurements.

FAO:shr

M

Lassarat, A. (1958) 581309 Hattop, H.-W. (1958) 581312
Rev.Trav.Off.Pêches marit., 22(1):31-63 Z.Fisch., 7(1/2):1-90
La pêche en côte d'Ivoire (Fisheries of the Ivory coast) Die Möglichkeiten der Bewirtschaftung von stehenden Gewässern und Flussläufen mit Hilfe der Elektrofischer (On the possibilities of managing standing waters and river courses with the help of electricity). En Ru

Describes the indigonus & industrial (European) fisheries, & marketing & industrialization of fishery products.

General principles of electro-fishing: the electrical field in water, the physiological effects of electrical currents, & the means of setting up the currents; methods of electro-fishing, & returns from it.

FAO:hr

M

FAO:glk

F

Morice, J. (1958) 581310
Rev.Trav.Off.Pêches marit., 22(1):85-104
Animaux marins comestibles des Antilles françaises (Oursins, crustacés, mollusques, poissons, tortues et cétacés) (Edible marine animals of the French Antilles (Sea-urchins, crustaceans, molluscs, fishes, turtles & cetaceans))

A catalogue of spp. arranged by families with notes & occurrence, methods of capture.

Flomming, H. (1958) 581313
Z.Fisch., 7(1/2):91-152
Untersuchungen über die Bluteiweisskörper gesunder und bauchwassersuchtskranker Karpfen (Investigations of the blood-protein-bodies in healthy and dropsical carp). En Ru

The significance of blood plasma- & serum protein methods of research for early diagnosis & investigation of carp infected with dropsy; description of the methods, & some results.

FAO:hr

M

FAO:glk

F

Morice, J. (1958) 581311
Rev.Trav.Off.Pêches marit., 22(1):105-14
Langoustes et scyllares des Petites Antilles (Spiny lobster and scyllarids of the Lesser Antilles)

An illustrated key for the determination of the spp. of the genera Scyllarides, Palinurellus, Justitia, Palinustus & Pamulirus.

Bauer, O. (1958) 581314
Z.Fisch., 7(1/2):153-60
Die Erforschung der Fischkrankheiten in den Sowjetowirtschaften und ihre Bekämpfung (The investigation of fish diseases in the Soviet Union and their control)

Review of recent USSR literature on principal fish diseases.

FAO:hr

M

FAO:glk

F

Fromm, P.O. & R.H. 581315
Schiffman (1958)
J.Wildlife Mgmt, 22(1):40-4
Toxic action of hexavalent chromium on largemouth bass

Tank experiments with Micropterus salmoides: toxicity & effect on oxygen consumption, of various doses & exposures.

FAO:sjh

F

Gangmark, H.A. (1957) 581318
Spec.sci.Rep.U.S.Fish Wildl.Serv., (189):
21 p.

Fluctuations in abundance of Columbia river chinook salmon, 1928-54

Review of catches, fishing effort & abundance of Oncorhynchus tshawytscha. Discussion of influence of water-use changes on this stock.

FAO:sjh

MF

Harrington, R.W., Jr. & 581316
W.L. Bidlingmayer (1958)
J.Wildlife Mgmt, 22(1):76-82
Effects of dieldrin on fishes and invertebrates of a salt marsh

Population mortality & re-establishment of fish, molluscs & crustacea (crabs) on a tidal marsh, East coast of Florida.

FAO:sjh

MF

Buljan, M. (1957) 581319
Acta adriat., 6(6):44 p.
Izvještaj o rezultatima oksperimenata gnojenja Mljetskog Jezera novim postupkom (Report on the results obtained by a new method of fertilization experimented in the marine bay Mljetska Jezera). Hr En

Results of addition of phosphates & soil to the waters of this sheltered Adriatic Bay, 1951-56, hydrographic data, plankton abundance, feeding of Ostrea edulis in the area. General discussion of experiments of this kind & possibilities for increased production.
FAO:sjh M

Zippin, C. (1958) 581317
J.Wildlife Mgmt, 22(1):82-90
The removal method of population estimation

A less technical account of previously published study by the author (Biometrics, 12:163, 1956), with some additional results of ecological interest.

FAO:sjh

MF

Buljan, M. (1957) 581320
Acta adriat., 8(7):26 p.
Fluctuation of temperature in the waters of the open Adriatic. Hr

Review & preliminary analysis of comprehensive data collected by NAJADE & CYCLOPE from March 1911 - February 1914.

FAO:sjh

M

Ercegović, A. (1957) 581321
Acta adriat., 8(8):130 p.
La flore sous-marine de l'Ilot de
Jabuka (The sub-marine flora of
Jabuka I.). Hr

Systematics of algal spp. in this area
of the Adriatic; ill; comparative
distributions & general floristic
conclusions.

FAO:sjh

M

Tokioka, T. & L. Börner (1958) 581324
Pacif.Sci., 12:135-8
Two new Doliolids from the eastern
Pacific ocean

Doliopsoides horizoni sp. n., Doliolina
undulatum sp. n. are described.

FAO:glk

M

Yount, J.L. (1958) 581322
Pacif.Sci., 12:111-30
Distribution and ecologic aspects of
central Pacific Salpidae (Tunicata)

Abundance is considered with reference
to physical & chemical factors of the
environment; relative abundance of spp.
is examined & salp abundance in the
area is compared with that of total
plankton of the area & with salp
abundance in other regions of the
Pacific. Distribution is analysed.
Ecological niches (relations to food &
enemics) are discussed.

FAO:glk

M

Barnard, J.L. (1958) 581325
Pacif.Sci., 12:146-51
Revisionary notes on the Phoxocephalidac
(Amphipoda), with a key to the genera

New synonymy for the genus Paraphoxus
Sars & listing of useful specific
criteria for that genus; new combination
& new names in the genera Paraphoxus,
Heterophoxus Shoemaker, & Proharpinia
Schollenberg; zoogeographical reasons for
provisional retention of the genus
Harpiniopsis Stephenson; & new key to
existing genera of Phoxocephalidac.

FAO:glk

M

Iversen, E.S. & E.L. 581323
Hoven (1958)
Pacif.Sci., 12:131-4
Some trematodes of fishes from the
central equatorial Pacific

Systematic list with notes on host,
location of infestation, locality at
which taken, & infection rates.

FAO:glk

M

Hanoda, Y. (1958) 581326
Pacif.Sci., 12:152-6
Studies on luminescence in marine snails

Observations on luminous phenomena, &
on the effects of temperature; structure
& histology of the luminous organ, &
biochemistry.

FAO:glk

M

<p>Banner, A.H. (1958) 581327 <u>Pacif.Sci.</u>, 12:157-69 Contributions to the knowledge of the alpheid shrimp of the Pacific Ocean - III. On a small collection from Onotoa, Gilbert Islands</p>	<p>Bowman, T.E. (1958) 581330 <u>Pacif.Sci.</u>, 12:181-2 First Pacific record of the Whale-louse genus <u>Synchyamus</u> (Amphipoda: Cyamidae)</p>
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<p>Systematic list with ecological & other notes.</p>	<p>Specimens from a dolphin taken near Tabogvilla Island.</p>
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<p>FAO:glk M</p>	<p>FAO:glk M</p>
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<p>Bary, B.M. (1958) 581328 <u>Pacif.Sci.</u>, 12:170-80 Records of scattering layers from New Zealand seas</p>	<p>Anonymous (1958) 581331 <u>Science</u>, 127(3288):23 Surface measurement of gravity in ocean areas</p>
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<p>Tabulation, illustration & discussion of records.</p>	<p>Note on first successful surface measurement of gravity in open sea by J.L. Worzel from U.S.S. COMPASS ISLAND.</p>
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<p>FAO:glk M</p>	<p>FAO:sjh M</p>
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<p>Nakamura, E.L. (1958) 581329 <u>Pacif.Sci.</u>, 12:181 An unusually large salp</p>	<p>Klein, L. (1958) 581332 <u>Research, Lond.</u>, 11:214-20 Chemical aspects of river pollution</p>
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<p><u>Thetys vagina</u> Tilosius taken at 22°15' N, & 157°46' W.</p>	<p>Considers the various sources of river pollution; chemical methods of assessing & treating sewage & trade wastes are outlined - the biological methods were considered previously (580375), & the permissible limits of impurities in rivers are discussed.</p>
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<p>FAO:glk M</p>	<p>FAO:sjh F</p>
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U.K. Ministry of Agriculture, 581333
Fisheries & Food (1958)
London, 43 p.
Herring Industry Board twenty-third
Annual Report for the year ended 31st
December 1957

Composition of board, arrangements
between it, catches & shore-based
industry, marketing, production,
research & development with regard to
Clupea harengus fishery in N. Sea,
public relations, accounts. Statistical
tables for fishing operations, landings
& values; fleet composition, disposal
of catches; international trade;
applications for credit.

FAO:sjh

M

Svetovidov, A.N. (1957) 581336
C.R.Acad.Sci.U.R.S.S., 117:910-3
O chernomorskikh vidakh roda schorpacna
(Black Sea species of the genus
Scorpaena)

Description of spp. found in the Black
Sea, the only native sp. being,
presumably, S. porcus; other spp. are
probably migratory.

FAO:sjh

M

Canada. Dominion Bureau of 581334
Statistics (1958)
Ottawa, 93 p.
Fisheries statistics of Canada (Nova
Scotia), 1956. En Fr

Yearly landings (quantities & values)
by spp., region, type of craft & gear;
inventory & operations of equipment;
employment, processing, trade, bounties
paid.

FAO:sjh

MF

Schaefer, M.B. (1957) 581337
Bull.interam.trop.Tuna Comm., 2:247-85
A study of the dynamics of the fishery
for yellowfin tuna in the eastern
tropical Pacific ocean. En Es

Statistics of fishing intensity &
resultant catch encompassing different
levels of fishing intensity for the
period 1934-1955 are examined in the
light of some theory of population
dynamics to provide more exact estimates
of the relation of fishing effort to
population abundance & catch.

FAO:hr

M

Bekker, V.L. (1957) 581335
C.R.Acad.Sci.U.R.S.S., 117:889-91
O vliianii uslovii sushchestvovaniia
na razvitie gonad i portsiionnost
ikrometaniia u zolatogo karasia
(Carassius carassius L.) (Develop-
ment of gonads & amount of spawn release
in Carassius carassius (L.), as
affected by living conditions)

Experiments with an over-stocked pond &
the effect on reproduction, as compared
with a normally stocked similar pond (in
the proportion of 15:2). Adopted indices:
maturity coefficient, new generations &
vitellogenesis.

FAO:go

F

Prévot, A.-R. (1958) 581338
Bull.Inst.océanogr., Monaco, (1114):22 p.
Utilité de la bactériologie marine dans
le présent et l'avenir (The useful-
ness of marine bacteriology in the
present and future). En

A review of the development of marine
bacteriology, & an appraisal of its
value as a field of research.

FAO:hr

M

Shishkina, O.V. (1957) 581339
C.R.Acad.Sci.U.R.S.S., 116:259-62
Khlordno-Natrii-Kaltsiiovyo vody v
chotvortichnykh otlozheniioikh chernogo
moria (Chlorido-sodium-calcium water
of quaternary deposits of the Black
Sea)

Methods employed, & chemical analysis
of water contained in silt samples.

FAO:go

M

Budanov, V.I. & al. (1957) 581342
C.R.Acad.Sci.U.R.S.S., 116:1005-8
Sovromennoye vertikalnoye dvizheniia
boregov dalnevostochnykh morci
(Vertical displacement of the Far-East
sea shores in modern times)

Importance of comparing the results of
different methods of appraisal of
elements, which determine the vertical
displacement of sea shores.

FAO:go

M

Aibulatov, N.A. (1957) 581340
C.R.Acad.Sci.U.R.S.S., 116:281-3
Oprodoloniie moshchnosti potokov
peschannykh nanosov u morskikh boregov
(A method for determining the thickness
of streams of suspended sand alluvium
along the sea shore)

Colouring of sand with luminous
organic substances.

FAO:go

M

Coblonts-Mischko, O.I. (1957) 581343
C.R.Acad.Sci.U.R.S.S., 116:1029-32
O produktsii fitoplanktona v severo-
zapadnoi chasti Tikhogo okeana vesnoi
1955 g. (Production of phytoplankton
in the N-E of the Pacific in the spring
of 1955)

Samples exposed in transparent &
darkened phials, both on the shipdock &
at various depths. Accumulation of
organic carbon & liberation of oxygen
were studied on different samples in
different conditions.

FAO:go

M

Dotlof, T.A. (1957) 581341
C.R.Acad.Sci.U.R.S.S., 116:341-4
Kortikalnoye granuly i veshchestva,
vydoliaiushchiesia iz animalnoi chasti
iaitsa v period aktivatsii u ostrovykh
ryb (Cortical granules & substances
secreted from the animal portion of
the egg at the period of activation
in Acipenseridae)

Description & methods used for
disclosing the nature of substances.

FAO:go

MF

Pavlov, P.I. (1957) 581344
C.R.Acad.Sci.U.R.S.S., 116:1039-40
O pomosileshcha i plotvy (Abramis brama
danubii Pavlov & Rutilus rutilus Linné)
iz limana Kitai (A hybrid between
Abramis brama danubii Pavlov & Rutilus
rutilus L. from the Kitai estuary)

Description of three specimens of
natural hybrids between bream & roach.

FAO:go

MF

Gusev, A.M. & N.P. Rusin (1957) 581345
C.R.Acad.Sci.U.R.S.S., 117:68-71.
Meteorologicheskaya kharakteristika
vnutrennego raiona vostochnoi Antarktidi
po nablindeniim na stantsii Pioners-
kaya (Meteorological description
of the inner region of East Antarctic
according to observations carried out
at the Pionerskaya station)

Standard meteorologic, actinometric
acrologic & glaciologic observations.

FAO:go

M

Krainshkina, L.S. (1957) 581348
C.R.Acad.Sci.U.R.S.S., 117:542-4
Gistofisiologicheskaya kharakteristika
organov pishchevaritelnoi sistemy
lichinok sevringi na razlichnykh etapakh
razvitiia (Histophysiological
description of the organs of the
alimentary system in larvae of Acipensor
stollatus Pallas at various stages of
their development)

Study of the various stages of develop-
ment, with regard to nutrition of
sturgeon larvae.

FAO:go

MF

Klumov, S.K. (1957) 581346
C.R.Acad.Sci.U.R.S.S., 117:153-6
Berogovye lozhbishcha katikov i mesta
obitania kalanov na Kurilskikh ostro-
vakh i orientirovochnoe opredelenie ikh
chislennosti (Coastal rookeries of
Callorhinus ursinus & habitat of Enhydra
lutris at the Kuril Islands, & a
tentative appraisal of their number)

Description of sea-otter habitat & fur-
seal (considered until now as
extirmination on the Kuril Islands)
rookeries, discovered by an exploring
party sent to appraise the number of
sea-lions.

FAO:go

M

Lincikin, P.S. (1957) 581349
C.R.Acad.Sci.U.R.S.S., 117:971-4
K dinamike baroklinnogo sloia v okeane
(Dynamics of the baroclinic layer in
the ocean)

Determination of the characteristic
depth of penetration of gradient-
convective currents in the ocean.

FAO:go

M

Romanova, G.P. (1957) 581347
C.R.Acad.Sci.U.R.S.S., 117:157-60
Kishechnye parazity sogoletkov sudaka
Rybinskogo vodokhranilishcha
(Intestinal parasites of young Lucio-
perca sandra in the Rybinsk water
reservoir)

Description of spp. & numbers of
parasites found in digestive organs
of perch-pike fingerlings.

FAO:go

F

Sarkisian, A.S. (1957) 581350
C.R.Acad.Sci.U.R.S.S., 117:975-8
K voprosu o nestatsionarnykh vetrovykh
techniakh v baroklinnom okeane
(Unsteady wind currents in a baroclinic
ocean)

Attempt to account for baroclinity,
following Eckman's theory. Makes use of
the density diffusion equation. The
problem is reduced to one equation.

FAO:go

M

Zelikman, E.A. (1958) 581351
C.R.Acad.Sci.U.R.S.S., 118:201-4
O sozrevanii gonad i plodovitosti samok
u massovykh vidov Barentsovomorskikh
evfauziid (Maturation of gonads &
female fertility of Barents Sea
Euphasiidae)

Indirect method of appraisal of
plankton reserves, consisting in the
comparison of female fertility with the
amount of spawn in the plankton.

FAO:go M

Dyk, V. (1958) 581354
Biologické Práce, 4(2):32 p.
Lípan podhorní (Thymallus thymallus (L.)
1758/ v různých nadmořských polohách
CSR a Zakarpatské Ukrajiny SSSR
(Grayling (Thymallus thymallus L.) in
the mountain-lakes with various altitudes
in Chechoslovakia & Karpatho-Ukraina
SSSR). Ru De

Description of the flora and fauna in
various mountain-lakes where the gray-
ling occurs, & conclusions about the
requirements of environmental
conditions by grayling.

FAO:tl F

Sorokin, Iu.I. & A.N. 581352
Meshkov (1958)
C.R.Acad.Sci.U.R.S.S., 118:205-7
Primenenie radioaktivnogo ugloroda C¹⁴
dlia opredelenia usvoiamosti proto-
kokkovykh vodoroslei motylei Tendipes
plumosus (Assimilation of Proto-
coccus algae by Tendipes plumosus,
determined by applying radioactive
carbon C¹⁴)

Description of experiments, showing
the advantages of this method for
studying alimentary relations of
aquatic organisms.

FAO:go M

Svärdson, G. (1957) 581355
Svensk FiskTidskr., 66:37-42
Skopträsklöjan (Vondace in the
lake Great Skepträsk)

Note on the occurrence of small grown
population of vendace in the lake, the
growth of vendace, & its morphological
characteristics (especially number of
gillrakers), variations in strength
of year class.

FAO:tl F

Shtefan, M. (1958) 581353
Zool.Zh., 37:222-8
Fiziologicheskii analiz vzaimosviasi
mezhdru gozoobmenom i stainym povodniem
u nekotorykh morskykh i prosnovodnykh
ryb (Physiological analysis of the
interrelation between the gas exchange
& shoal behaviour of certain marine &
freshwater species). En
Measurements of oxygen consumption by
gregarious fish when isolated, within
reach of, or united to the shoal.
According to species, the gregarious
instinct is stimulated by optical or
olfactory organs.

FAO:go MF

Nordin, S. (1957) 581356
Svensk FiskTidskr., 66:42-3
Öringlock i saltvatten vid Gotland
(Spawning of trout in the salt water
by Gotland)

Notes on the spawning of trout in
shallow water in the Baltic Sea.

FAO:tl MF

<p>Svärdson, G. (1957) 581357 <u>Svensk FiskTidskr.</u>, 66:89-90 Motgift mot rotenon (Antipoison against rotenon)</p> <p>Notes on the use of potassium perman- ganate for oxidation of rotenon.</p> <p>FAO:t1 F</p>	<p>Hult, J. (1957) 581360 <u>Svensk FiskTidskr.</u>, 66:105-8 Lönar sig fiskodlingen? (Is fish- culture profitable?)</p> <p>Review of the problems of fish-culture for the purpose of stocking of natural waters in Sweden.</p> <p>FAO:t1 F</p>
<p>Curry-Lindahl, K. (1957) 581358 <u>Svensk FiskTidskr.</u>, 66:91-4 Om rödingen i rinnande vatten (On char in running water)</p> <p>Notes on the occurrence of char (<u>Salmo alpinus</u>) in brooks & rivers in Northern Sweden.</p> <p>FAO:t1 F</p>	<p>Agnedal, P.-O. (1957) 581361 <u>Svensk FiskTidskr.</u>, 66:108-13 Fiskostatistik i sjön Erkon 1952-1956 (Fisheries statistics in the lake Erkon, 1952-1956)</p> <p>Yield of fish by spp. & year, & discussion on the year-to-year changes in yield.</p> <p>FAO:t1 F</p>
<p>Ahl, E. (1957) 581359 <u>Svensk FiskTidskr.</u>, 66:94-7 En kräftfiskundersökning i Ljungan (A grayfish investigation in the river Ljungan)</p> <p>Notes on the abundance & catches of gray-fish in the river.</p> <p>FAO:t1 F</p>	<p>Borzinž, B. (1957) 581362 <u>Svensk FiskTidskr.</u>, 66:118 Fenklippningsförsök med bäckröding (Fin cutting test with rainbow trout)</p> <p>Notes on the possibilities for tagging of fish by cutting of fins and the regeneration of fins by <u>Salmo fontinalis</u>.</p> <p>FAO:t1 F</p>

<p>Anonymous (1958) 581363 <u>Dansk FiskTid.</u>, 76:34-8 Totaludbyttet af dansk fiskeri viste ny betydelig fremgang i året 1957 (Total yield of Danish fishery showed a now considerable progress in the year 1957)</p> <p>Preliminary review of Danish fisheries statistics, including notes on fishing-effort.</p> <p>FAO:tl M</p>	<p>h.k. (1958) 581366 <u>Dansk FiskTid.</u>, 76:217 Uenighed mellem havforskere på en sildekonference i Bremen (Disagreement between marine scientists on a herring Conference in Bremen)</p> <p>Notes on a discussion of over-fishing problems in the North Sea.</p> <p>FAO:tl M</p>
<p>Anonymous (1958) 581364 <u>Dansk FiskTid.</u>, 76:189 Hvillingundersøgelserne i Nordsøen m.v. (Whiting investigations in the North Sea)</p> <p>Notes on the tagging of whiting, & race investigations.</p> <p>FAO:tl M</p>	<p>Bertolson, E. (1958) 581367 <u>Dansk FiskTid.</u>, 76:241 Do internationale sildemaerkninger og industrifiskeriets fangststatistik (International tagging of herring & the catch statistics of "industrial fishery" (fishery for reduction plants))</p> <p>Notes on the results of herring tagging in the North Sea, 1957, & the influence of Danish industrial fishery on the herring stocks.</p> <p>FAO:tl M</p>
<p>Anonymous (1958) 581365 <u>Dansk FiskTid.</u>, 76:199-200 De fiskeribiologiske undersøgelser angående Nordsørdspætter m.v. (Fisheries biological investigations on North-Sea plaice)</p> <p>Notes on the year-class strengths & tagging of plaice.</p> <p>FAO:tl M</p>	<p>Anonymous (1958) 581368 <u>Dansk FiskTid.</u>, 76:265-6 Undersøgelserne omkring Faørøerne og i nordligere havområder (Investigations around Faeroers and in the northern sea areas)</p> <p>Short review of the results of Danish oceanographic & fisheries biological investigations in the North-Atlantic, & notes on changes taking place in the last years in this area.</p> <p>FAO:tl M</p>

<p>Anonymous (1958) 581369 <u>Dansk FiskTid.</u>, 76:275-8 Undersøgelserne i de ferske vande (Investigations in fresh water)</p> <p>Short review of the Danish investigations in inland waters with the emphasis on pollution problems.</p> <p>FAO:t1 F</p>	<p>A.F. (1958) 581372 <u>Dansk FiskTid.</u>, 76:297-8 Fiskeribiologi og rødspættor (Fisheries biology and the plaice)</p> <p>Discussion on the rentability of transplantation of plaice in Danish waters.</p> <p>FAO:t1 M</p>
<p>Anonymous (1958) 581370 <u>Dansk FiskTid.</u>, 76:287-8 Undersøgelse af giftstoffers indvirken på fisk (Investigations on the influence of poisons on fish)</p> <p>Short review of the investigations conducted in Danish Physiological Laboratory, e.g. (the influence of chlorination, radioactive pollution, treatment with hormones etc. on fish).</p> <p>FAO:t1 MF</p>	<p>Wolle-Strand, H. (1958) 581373 <u>Dans.FiskTid.</u>, 76:310 Vi må opsøge fiskene siger Finn Devold (We must search for fish, says Finn Devold)</p> <p>Notes on Mr. Finn Devold's plans for intensification of the survey of off-shore fisheries resources.</p> <p>FAO:t1 M</p>
<p>Anonymous (1958) 581371 <u>Dansk FiskTid.</u>, 76:289-93 Fiskeri- og havundersøgelserne i farvandedene ved Grønland (Fisheries and oceanographic investigations off Greenland)</p> <p>Short review of Danish investigations with emphasis on the size of cod stocks.</p> <p>FAO:t1 M</p>	<p>Toudouze, G.G. (1958) 581374 <u>France pêche</u>, 3(18):16-8 Eaux territoriales, plateau continental et avenir de la pêche (Territorial waters, continental shelf & the future of fisheries)</p> <p>A brief summary of this problem.</p> <p>FAO:sjh M</p>

International Commission for the Northwest Atlantic Fisheries (1958) 581375
Spec. Publ. I.C.N.A.F., (1):339 p.
Some problems for biological fishery survey and techniques for their solution - A symposium held at Biarritz, France, March 1-10, 1956

A report of the Symposium, with full report of the various working parties & selected contributed papers, references & annotations to which are given as 581376 to 581417.

SJH:sjh

MF

Martin, W.R. (1958) 581378
Spec. Publ. I.C.N.A.F., (1):17-26
Working party II - Characteristics of catches of the salt cod fleet

Convenor's report on this fishery - development of fishing equipment; review of landings statistics; cod abundance & sizes captured; conversion factors for processed to whole fish; general biological observations; proposed research program relating to statistics, sampling, gear solution, population dynamics, catch prediction. List of contributed papers

SJH:sjh

M

Walford, L.A. (1958) 581376
Spec. Publ. I.C.N.A.F., (1):5-12
Chairman's summary of discussions

Background for discussion, subjects identified; general conclusions regarding research programs especially in the ICNAF area.

SJH:sjh

M

Holt, S.J. (1958) 581379
Spec. Publ. I.C.N.A.F., (1):27-50
Working party III - Population dynamics: devise means of reducing the time required to obtain data necessary for making assessments of stocks, especially those required as the basis for a program of conservation

Convenor's report on discussions of this subject, conclusions & recommendations; list of contributed papers.

SJH:sjh

MF

Taylor, C.C. (1958) 581377
Spec. Publ. I.C.N.A.F., (1):13-6
Working party I - The problem of sampling oceanic stocks which are partly demersal, partly pelagic, whose distribution differs with size and age, and which are fished by diverse techniques and by diverse countries

Convenor's notes on papers presented, & discussion of them, with recommendations regarding this problem.

SJH:sjh

M

Beverton, R.J.H. & J.A. Gulland (1958) 581380
Spec. Publ. I.C.N.A.F., (1):51-66
Working party III - Mortality estimation in partially fished stocks

A factor in planning population research is extent to which fishing is influencing stock. One method of obtaining information involves estimation of magnitudes of fishing & natural mortality. This contribution to the working party on population dynamics is concerned with estimation of mortality, & use of these data for purposes of assessment, when only a part of a stock is fished.

SJH:sjh

M

Graham, M. (1958) 581381
Spec. Publ. I.C.N.A.F., (1):67-8
Working party III - Fish population
assessment by inspection

This contribution to working party on
population dynamics suggests that
appearance of Tilapia esculenta in L.
Victoria, gives clue to average age of
fish & hence to degree of exploitation
of stock.

SJH:sjh

F

Holt, S.J. (1958) 581384
Spec. Publ. I.C.N.A.F., (1):77-95
Working party III - The evaluation of
fisheries resources by the dynamic
analysis of stocks, and notes on the
time factors involved

Contribution to working party on
population dynamics attempts to define
universal measures of potential yield
from a resource. Gives examples &
discusses the requirements from data.

SJH:sjh

MF

Gulland, J.A. (1958) 581382
Spec. Publ. I.C.N.A.F., (1):69-70
Working party III - Notations in fish
population studies

Author's abstract of paper which formed
basis for standard notation recommended
by working party on population dynamics.

SJH:sjh

MF

Le Cren, M.D. (1958) 581385
Spec. Publ. I.C.N.A.F., (1):97-104
Working party III - Some observations on
methods of speeding up fish population
assessments

Contribution to working party on
population dynamics reviews & discusses
some general aspects of the problem.

SJH:sjh

MF

Gulland, J.A. (1958) 581383
Spec. Publ. I.C.N.A.F., (1):71-6
Working party III - Sampling of semi-
oceanic stocks of fish

Contribution to working parties on
population dynamics & sampling on the
needs for data, & their analysis to
give unbiased estimates of stock size &
composition, & showing that required
sampling methods depend on details of
use to which data obtained are to be
put.

SJH:sjh

M

Walford, L.A. (1958) 581386
Spec. Publ. I.C.N.A.F., (1):105-10
Working party IV - To make the best use
of the scientific talent, arrange that
men with special skills are most effec-
tively used for the needs of the whole
commission. This may require allocating
tasks and materials

Convenor's report with recommendations
regarding collaboration on statistics &
sampling, use of research vessels &
equipment, & need for scientific meet-
ings. Costs of fisheries research &
their allocation as between participat-
ing countries.

SJH:sjh

M

Graham, H.W. (1958) 581387
Spec. Publ. I.C.N.A.F., (1):111
Working party V - Effects of haddock
mesh regulation in subarea 5

Convonor's report on this topic.

SJH:sjh

M

Parrish, B.B. (1958) 581390
Spec. Publ. I.C.N.A.F., (1):151-78
Working party VI - Some notes on
methods used in fishery research

A review of fish & mosh measuring
methods; conduct of gear selection
exporiments, age-determination of fish,
growth studies. Identification of
questions requiring discussion & test.

SJH:sjh

MF

Parrish, B.B. (1958) 581388
Spec. Publ. I.C.N.A.F., (1):113-38
Working party VI - Comparison of
European and North American techniques
of measuring nets, of reading ages of
fish and of studying growth

Convenor's report on this topic, subjects
dealt with general considerations,
proceedings of discussions & recommend-
ations for standardization & further
experiments. List of contributed papers.

SJH:sjh

M

Gulland, J.A. (1958) 581391
Spec. Publ. I.C.N.A.F., (1):179-90
Working party VI - Age detormination of
cod by fin rays and otoliths

Contribution to working party on
comparison of techniques reporting
experiments to study differeencos
between methods & between observers.

SJH:sjh

M

Kesteven, G.L. (1958) 581389
Spec. Publ. I.C.N.A.F., (1):139-49
Working party VI - Some considerations
concerning the instrumentation for
fishery biology

A review of methods, with tentative
proposals for development of semi-
automatic measuring instruments.

SJH:sjh

MF

Clark, J.R. (1958) 581392
Spec. Publ. I.C.N.A.F., (1):191-2
Working party VI - Consistency of scale
reading

Contribution to working party on
comparison of techniques reporting an
experiment to test observer differences
in reading scales of Georges Bank
haddock.

SJH:sjh

M

Jensen, A.C. & J.R. Clark (1958) 581393
Spec. Publ. I.C.N.A.F., (1):193-7
Working party VI - Time of formation of
scale annuli

Contribution to working party on
comparison of techniques reporting a
study of Georges Bank haddock samples.

SJH:sjh

M

Trout, G.C. (1958) 581396
Spec. Publ. I.C.N.A.F., (1):207-14
Working party VI - Otoliths in age
determination

Contribution to working party on
comparison of techniques dealing with
growth of cod in the N. Atlantic, &
especially in the Arctic.

SJH:sjh

M

Kohler, A.C. & al. (1958) 581394
Spec. Publ. I.C.N.A.F., (1):199
Working party VI - Haddock scale-
otolith comparisons

Abstr. of contribution to working party
on comparison of techniques reporting
comparative observations by U.S. &
Canadian biologists.

SJH:sjh

M

Kelly, G.F. & R.S. Wolf (1958) 581397
Spec. Publ. I.C.N.A.F., (1):215
Working party VI - Age and growth of
redfish, Sebastes marinus (Linnaeus), in
the Gulf of Maine

Abstract of contribution to working
party on comparison of techniques.

SJH:sjh

M

Saetersdal, G. (1958) 581395
Spec. Publ. I.C.N.A.F., (1):201-6
Working party VI - Use of otoliths and
scales of the Arctic haddock

Study of age-determination & growth
from Finnmark Bank & Rostbank samples;
discussion of Lee's phenomenon
(contribution to working party on
comparison of techniques).

SJH:sjh

M

Kotthaus, A. (1958) 581398
Spec. Publ. I.C.N.A.F., (1):217-22
Working party VI - Age and growth of
redfish, Sebastes marinus (L.)

Contribution to working party on
comparison of techniques giving
appraisal of data for N.E. Atlantic.

SJH:sjh

M

Rasmussen, B. (1958) 581399
Spec. Publ. I.C.N.A.F., (1):223-5
Working party VI - Notes on the otoliths
of S. marinus and S. viviparus

Contribution to working party on
comparison of techniques discussing
growth rates of these spp. in
N. Atlantic.

SJH:sjh

M

Taylor, C.C. (1958) 581402
Spec. Publ. I.C.N.A.F., (1):243-51
Working party VI - A note on Lee's
phenomenon in Georges Bank haddock

Contribution to working party on
comparison of techniques reporting
analysis of scale readings & back-
calculations.

SJH:sjh

M

Sandeman, E.J. (1958) 581400
Spec. Publ. I.C.N.A.F., (1):227
Working party VI - Growth of young
redfish

Contribution to working party on
comparison of techniques giving data on
growth of fish in one year class of
Sebastes marinus.

SJH:sjh

M

von Brandt, A. (1958) 581403
Spec. Publ. I.C.N.A.F., (1):253-64
Working party VI - Measurements of
meshes of trawl nets

Contribution to working party on
comparison of techniques reviewing
methods, manufactures, specifications &
needs, gauges, effect of pressure,
shrinkage & stretching.

SJH:sjh

M

Jones, R. (1958) 581401
Spec. Publ. I.C.N.A.F., (1):229-42
Working party VI - Lee's phenomenon of
"apparent change in growth-rate" with
particular reference to haddock and
plaice

Contribution to working party on
comparison of techniques reporting study
of scale & otolith readings of these
spp. in N.E. Atlantic.

SJH:sjh

M

Went, A.E.J. (1958) 581404
Spec. Publ. I.C.N.A.F., (1):265-6
Working party VI - Measurement of the
mesh of nets

Contribution to working party on
comparison of techniques proposing use
of the "knots per unit length"
criterion.

SJH:sjh

M

<p>Lucas, C.M. (1958) 581405 <u>Spec. Publ. I.C.N.A.F.</u>, (1):267-74 . Working party VII - Differentiation of fish stocks</p> <p>Convener's report of working party on this subject, which considered the importance of planktonic stages to the division or inter-mingling of groundfish stocks; the identification of unit stocks in general; & the spp. & varieties of <u>Sebastes</u>. Recommendations for research; list of contributed papers.</p> <p>SJH:sjh M</p>	<p>Colton, J.B., Jr. (1958) 581408 <u>Spec. Publ. I.C.N.A.F.</u>, (1):279 Working party VII - Report on studies of fluctuations of year-class strength of haddock</p> <p>Abstract of contribution to working party on differentiation of fish stocks, giving analysis of egg & larvae surveys in N.W. Atlantic.</p> <p>SJH:sjh M</p>
<p>Alvarino, A. (1958) 581406 <u>Spec. Publ. I.C.N.A.F.</u>, (1):275 Working party VII - Zooplankton from Newfoundland waters</p> <p>Abstract of contribution to working party on differentiation of fish stocks reporting occurrence of zooplankton in surface hauls, 1955, incl. larvae of <u>Mallotus villosus</u> & eggs of <u>Gadus callarias</u>, <u>Hippoglossoides platessoides</u> & <u>Limanda ferruginca</u>.</p> <p>SJH:sjh M</p>	<p>Corlett, J. (1958) 581409 <u>Spec. Publ. I.C.N.A.F.</u>, (1):281-8 Working party VII - Distribution of larval cod in the western Barents Sea</p> <p>Contribution to working party on differentiation of fish stocks review published data & reporting new observations, all being summarized by maps.</p> <p>SJH:sjh M</p>
<p>Colton, J.B., Jr. (1958) 581407 <u>Spec. Publ. I.C.N.A.F.</u>, (1):277 Working party VII - Adaptability of the hardy plankton recorder to research ship studies</p> <p>Short abstract of contribution to working party on differentiation of fish stocks, dealing with sampling methods for larval fishes.</p> <p>SJH:sjh M</p>	<p>Fraser, J.H. (1958) 581410 <u>Spec. Publ. I.C.N.A.F.</u>, (1):289-310 Working party VII - The drift of the planktonic stages of fish in the north-east Atlantic and its possible significance to the stocks of commercial fish</p> <p>A review contribution to working party on differentiation of fish stocks, with special reference to spp. of <u>Gadus</u>, <u>Pleuronectes</u>, <u>Nansonia</u>, <u>Stomias</u>, <u>Brosme</u>, <u>Molva</u>, <u>Merluccius</u>, <u>Myctophum</u>, <u>Maurollicus</u> & <u>Bathylagus</u>, as well as occurrence of rare genera such as <u>Mola</u>.</p> <p>SJH:sjh M</p>

Steele, D.H. (1958) 581411
Spec. Publ. I.C.N.A.F., (1):311
Working party VII - The rodfish
(Sebastes marinus (L.)) in the western
Gulf of St. Lawrence

Abstract of contribution to working party on differentiation of fish stocks dealing with size at maturity, meristic characters, distribution & feeding of this sp.

SJH:sjh M

Floming, A.M. (1958) 581414
Spec. Publ. I.C.N.A.F., (1):331
Working party VII - Differentiation of
cod groups in the Newfoundland and
Labrador region

Abstract of contribution to working party on differentiation of fish stocks; discusses significance of differences in vertebral number & in degree of parasitization by the nematode Parrocaccum & its relation to the adult host, Phoca vitulina.

SJH:sjh M

Tåning, Å.V. (1958) 581412
Spec. Publ. I.C.N.A.F., (1):313-25
Working party VII - Observations on
supposed intermingling or a certain
connection between some stocks of boreal
and subarctic demersal food fishes of
the eastern and western Atlantic

Contribution to working party on differentiation of fish stocks, giving northern hemisphere distribution maps for spp. of the genera Molva, Micromesistius, Morluccius, Urophycis, Brosme, Gadus, Hippoglossus, Pleuronectes. Reviews distribution data for other spp., especially of commercially exploited stocks.

SJH:sjh M

Clark, J.R. (1958) 581415
Spec. Publ. I.C.N.A.F., (1):333
Working party VII - The identification
of haddock stocks based on vertebral
enumeration

Brief abstract of contribution to working party on differentiation of fish stocks.

SJH:sjh M

Aurich, H.J. (1958) 581413
Spec. Publ. I.C.N.A.F., (1):327-30
Working party VII - Causes of the
changes in the stocks of some summer
spawners, in the southern North Sea -
A working hypothesis

Contribution to working party on differentiation of fish stocks, reviewing observations of spawning areas of Clupea pilchardus, Engraulis encrasi-cholus, Solea vulgaris, Caranx trachurus & Scomber scombrus. Comment on associated changes in distribution of Sopia officinalis & Lepas fasciculatus.

SJH:sjh M

Kelly, G.F. & T.W. Martin (1958) 581416
Spec. Publ. I.C.N.A.F., (1):335-7
Working party VII - Variations in body
proportions of rodfish from the Gulf of
Maine, Nova Scotian Banks and the Great
Banks

Contribution to working party on differentiation of fish stocks describing morphometric studies of Sebastes marinus & S. viviparus from the N.W. Atlantic.

SJH:sjh M

Rollefson, G. (1958) 581417
Spec. Publ. I.C.N.A.F., (1):339
Working party VIII - Review of know-
ledge about the Atlantic halibut

Brief report by convener of working
party, with general conclusions &
proposals; list of contributed papers.

SJH:sjh

M

Cotton, C.A. (1958) 581420
Geogr. J., 124:223-31
The rim of the Pacific

Discussion of topology, morphology &
evolution of the Pacific basin.

FAO:sjh

M

Kidson, C., A.P. Carr & 581418
D.B. Smith (1958)
Geogr. J., 124:210-8
Further experiments using radioactive
methods to detect the movement of
shingle over the sea bed and alongshore

Ill. description of apparatus, &
methods & results obtained on English
east coast.

FAO:sjh

M

van Rooy, M.P. (Ed.) (1957) 581421
Proterea, 240 p.
Meteorology of the Antarctic

Incl. chapters on the oceanography of
the southern ocean & climatology of the
ocean area.

:sjh

M

Worrall, G.A. (1958) 581419
Geogr. J., 124:219-22
Deposition of silt by the irrigation
waters of the Nile at Khartoum

Describes results of analysis of
monthly water & sediment samples, taken
March 1954 - February 1957.

FAO:sjh

F

Lamb, H.H. (1958) 581422
Geogr. J., 124:256-7
Meteorology of the Antarctic

Review of 581421.

FAO:

M

<p>Odell, N.E. (1958) 581423 <u>Geogr.J.</u>, 124:287-8 Professor Léon William Collet</p> <p>Obituary & short biography of this geologist, with account of his work on physical limnology.</p> <p>FAO:sjh F</p>	<p>Emory, F.V. (1958) 581426 <u>Geogr.J.</u>, 124:296 Lewis Morris (1701-65), surveyor and geographer</p> <p>Letter commenting on Robinson, A.H.W., 1957, (581425) with reference to mention of Morris's activities as a marine surveyor.</p> <p>FAO:sjh M</p>
<p>Mackay, J.R. (1958) 581424 <u>Geogr.J.</u>, 124:294-5 Arctic "vegetation arcs"</p> <p>A letter commenting on "staircase ponds" & water course patterns described by Ives, R.L. (1941) <u>J. Geomorphol.</u>, 4: 285-96, in relation to papers of Macfadyen, W.A. (1950) <u>Geogr.J.</u>, 116: 199-211 & Greenwood, J.L.G.W. (1957) <u>Geogr.J.</u>, 123:465-75.</p> <p>FAO:sjh F</p>	<p>Gorasimov, I.P. (1957) 581427 <u>Bull.Acad.Sci.U.R.S.S.(Géogr.)</u>, (5) (The present situation with regard to the scientific study of the natural resources of the U.R.S.S.). <u>Ru</u></p> <p>MF</p>
<p>Robinson, A.H.W. (1957) 581425 <u>Geogr.J.</u>, 123:453-4 Marine surveying in Britain during the seventeenth and eighteenth centuries</p> <p>M</p>	<p>Bogorov, V.G. & al. (1957) 581428 <u>Bull.Acad.Sci.U.R.S.S.(Géogr.)</u>, (5) (The oceans of the world and their natural resources). <u>Ru</u></p> <p>M</p>



Dubyanskii, V.A. (1957) 581429
Bull.Acad.Sci.U.R.S.S.(Géogr.), (6)
(The combat against line erosion on the
left bank of the Don and its importance
for the prevention of sand-silting in
the Don and the Tsimlyanskiy). Ru

F

Bylinskii, E.N. (1957) 581432
Bull.Acad.Sci.U.R.S.S.(Géogr.), (6)
(Changes in the longitudinal profiles
of the affluents of lake Sevan in
connection with the lowering of its
level). Ru

F

Nazarov, G.B. (1957) 581430
Bull.Acad.Sci.U.R.S.S.(géogr.), (6)
(An analysis of river flow factors and
an assessment of their influence on
industrial activity in the southern
Volga region). Ru

F

Storniakov, V.A. (1957) 581433
Bull.Acad.Sci.U.R.S.S.(Géogr.), (6)
(Flow in the upper Yenisei basin). Ru

F

Ioganson, N.V. (1957) 581431
Bull.Acad.Sci.U.R.S.S.(Géogr.), (6)
(High water silting in the river Kuro
on 8 August 1955). Ru

F

Zalotaiev, V.S. (1957) 581434
Bull.Acad.Sci.U.R.S.S.(Géogr.), (6)
(Changes in the bird population in the
north-eastern part of the Caspian as
affected by fluctuations of the sea
level). Ru

M

Seryakova, E.P. (1957) 581435
Bull. Acad. Sci. U.R.S.S. (Geogr.), (6)
(Assessment of evaporation and its
ratio to irrigation). Ru

Mišik, V. (1958) 581438
Biológia, 13:219-22
Ostračka lososovitz (Micropterus
salmoides Lacépède 1802) v Dunaji
(Micropterus salmoides Lacépède 1802 in
the Danube). Ru Dc

Description of the species found in
Danube in the vicinity of Stúrovo.

F

FAO:tl

F

Gakkol', Y.Y. (1957) 581436
Bull. All-Un. Geogr. Soc., (6)
(The continental shelf as a geographical
zone of the Arctic ocean). Ru

Atlantic States Marine Fisheries 581439
Commission (1958)
New York, 79 p.
Sixteenth annual report of the Atlantic
States Marine Fisheries Commission to
the Congress of the United States and to
the Governors and Legislators of the
fifteen compacting states

Membership of the Commission, the state
of the Commission and the activities of
its sections; appendices dealing with
legislation, accounts, activities of
technological & biological sections;
summary statements of clam and shad
investigations, results of striped bass
programme.

FiB:glk

MF

M

Kubiček, F. (1958) 581437
Biológia, 13:190-202
K poznání zooplanktonu velkého a malého
Vihorlatského jezera (To the know-
ledge of zooplankton of the Small and
Great lake Vihorlat). Ru Dc

List of the spp. found & their
horizontal & vertical distribution,
with notes on seasonal variations.

El-Godawi, I. (1958) 581440
Lil-Folaha, Cairo, 38(1)
(Egyptian fresh water fisheries). Ar

Survey of the fresh water area & its
fish production. Tilapia constitutes
60-80% of production. Points out danger
of introducing carp in Egypt & the
advantage of grass carps in getting rid
of lake weeds, the main food of
bilharzia vectors.

FAO:tl

F

:SJH

F

Yong, G.G. (1957) 581441
J.Anim.Ecol., 26:251-61
Ecology as an experimental science

References, in the context of the general topic, to introductions of freshwater fishes, overfishing, and whaling; oil-pollution & sea-birds, fouling organisms, theory of population dynamics, grazing of limpets (Patella) on algae.

SJH:sjh

MF

Macan, T.T. (1957) 581444
J.Anim.Ecol., 26:317-42
The Ephemeroptera of a stony stream

Description of Ford Wood Beck in the English Lake District, & its population; comparison with other streams in the district & elsewhere in Europe.

SJH:sjh

F

Fryer, G. (1957) 581442
J.Anim.Ecol., 26:263-86
The food of some freshwater cyclopoid copepods and its ecological significance

Gut contents of several spp. of Macro-cyclops, Acanthocyclops, Cyclops & Eucyclops in Britain. Review of literature, & reference to cyclopoids attacking fish; carnivorous & herbivorous forms; food preferences & competition for food by allied spp.; ecological implications of feeding habits & general role of cyclopoids in nature.

SJH:sjh

F

Mackeroth, J.C. (1957) 581445
J.Anim.Ecol., 26:343-51
Notes on the Plecoptera from a stony stream

3 year study of Ford Wood Beck in the English Lake district; spp. found, & their abundance, seasonal variation & food.

SJH:sjh

F

Capstick, C.K. (1957) 581443
J.Anim.Ecol., 26:295-315
The salinity characteristics of the middle and upper reaches of the river Blyth estuary

Description of a year's work on a river opening to N. Sea on Northumberland coast; methods & results; tidal & seasonal cycles.

SJH:sjh

MF

Bossanyi, J. (1957) 581446
J.Anim.Ecol., 26:353-68
A preliminary survey of the small natant fauna in the vicinity of the sea floor off Blyth, Northumberland

'Bottom plankton' at two stations of differing depth & type of bottom was surveyed with a bottom sled net by day & night. Food relationships of 'bottom plankton' are discussed.

SJH:sjh

M

Longhurst, A.R. (1957) 581447
J.Anim.Ecol., 26:369-87
The food of the demersal fish of a west African estuary

Weekly trawling 4/52 - 3/55 in Sierra Leone R.; stomach contents, seasonal & other feeding changes.

SJH:sjh

MF

Drinnan, R.H. (1957) 581450
J.Anim.Ecol., 26:441-69
The winter feeding of the oystercatcher (Haematopus ostralogus) on the edible cockle (Cardium edule)

Bird behaviour; cockly population-size distribution of live & empty shells show selective feeding in different seasons; comparison with accounts of feeding on other shellfish; rate of food intake gut analysis; meat volume-length relation of cockles; numbers of birds.

SJH:sjh

II

Qasim, S.Z. (1957) 581448
J.Anim.Ecol., 26:389-401
The biology of Contronotus gunnellus L. (Teloostei)

Monthly collections 2/54 - 5/55 from shores of Menai Straits; growth, breeding, condition, food & feeding.

SJH:sjh

M

Muirhead-Thomson, R.C. (1957) 581451
Nature, Lond., 180:1432-3
Effect of desiccation on the eggs of Simulium damnosum, Theobald

Describes experiments in Liberia to determine viability after artificial drying.

GLK:wad

F

Moon, H.P. (1957) 581449
J.Anim.Ecol., 26:403-9
The distribution of Asellus in the English lake district and adjoining areas

Collections made in several lakes, 1948-56 (stramin net & dredge), of A. aquaticus & A. meridianus.

SJH:sjh

F

Kay, A. (1957) 581452
Nature, Lond., 180:1436-7
The genus Cypraea

A proposal based on studies of soft parts that only this genus be retained for members of the sub-family Cypracinac.

GLK:wad

M

Johnson, A.L. (1957) 581453
Nat.in Wales, 3:377-81
Seal marking

154 seals (82 cows, 65 bulls & 7 undetermined) ringed by the West Wales Field Society from Sept. 1956 to March 1957 inclusive, many of them on Ramsey Island. Seventeen recoveries, 12 locally, 3 from south-west England, one from Eiro, & one from the French coast.

:jac

M

Fine, J. & A. Drilhon (1958) 581456
C.R.Acad.Sci., Paris, 246:3183-6.
Etude des protéines sériques de Labrus bergylta par électrophorèse de zone sur papier, gélose et gel d'amidon
(Study of serum proteins of Labrus bergylta by electrophoresis using paper, gelatin & amidon gel)

Description of comparisons of these techniques & results obtained.

FAO:sjh

F

Masson, J. (1958) 581454
C.R.Acad.Sci., Paris, 246:3108-10
La sécrétion nucléolaire des chromosomes géants chez le chironome (Chironomus plumosus, Insecte diptère)
(Nucleolar secretion by giant chromosomes in chironomids (Chironomus plumosus, Dipteran insect))

Cytological observations of salivary gland cells.

FAO:sjh

F

Veillot, A. & F. Graf (1958) 581457
C.R.Acad.Sci., Paris, 246:3188-91
Développement post-embryonnaire des gonades et de la glande androgène chez le crustacé amphipode Orchestia cavimana Heller
(Post-embryonic development of gonads & androgenous gland of the amphipod crustacean Orchestia cavimana Heller)

A morphological study of the process of sexual development.

FAO:sjh

M

Nourisson, M. (1958) 581455
C.R.Acad.Sci., Paris, 246:3122-5
Existence d'une seule catégorie d'ocufs chez Chirocephalus stagnalis Shaw
(Crustacé Phyllopoce) (Existence of a single egg type in Chirocephalus stagnalis Shaw (Phyllopod crustacean))

Resistance of eggs to drying; their morphology & development.

FAO:sjh

M

Ladouce, R., Y. Fauvel & M. Boury (1958) 581458
Sci.Pêche, (58):12 p.
Technique de l'épuration des coquillages
(Techniques of purification of molluscs)

Describes methods, equipment procedures & costs of operation.

FAO:hr

M

Rodon, G.I. (1958) 581459
Pacif.Sci., 12(1):21-45
Oceanographic and meteorological
aspects of the Gulf of California

Analysis of temperature, salinity,
oxygen, wind data. Distribution of
properties, upwelling, seasonal changes,
currents, evaporation.

FAO:sjh M

Pottorsson, H. & K. 581462
Fredriksson (1958)
Pacif.Sci., 12(1):71-81
Magnetic spherules in deep-sea deposits

Results of study of sediment cores from
all oceans & varying depth. Analysis
gives proof of cosmic origin; use to
estimate rates of sedimentation.

FAO:sjh M

Bary, B.M. & al. (1958) 581460
Pacif.Sci., 12(1):46-59
A closing, high-speed plankton catcher
for use in vertical and horizontal
towing

Design, construction, trials &
operational use of this equipment.
Measurements of efficiency.

FAO:sjh M

Wieser, W. (1958) 581463
Pacif.Sci., 12(1):106-8
Occurrence of Protoclyda leuckarti in
Puget Sound

Ill. & map of distribution of this
hydrozoan. Conditions of habitat &
associations of the sp.

FAO:sjh M

Wisner, R.L. (1958) 581461
Pacif.Sci., 12(1):60-70
Is the spear of istiophorid fishes
used in feeding?

Evidence that Makaira spp. rely on
swimming speed to overtake prey, rather
than use of spear as a weapon. o.g.:
fishes with deformed or without spears
attain normal weight for their length;
spear may however have a streamlining
function.

FAO:sjh M

Scottish Home Department (1958) 581464
Freshw.Salm.Fish.Res., (21):14 p.
Ninth annual report of the Supervisory
Committee for brown trout research

Summary of the years work at the
Freshwater Fisheries Laboratory at
Pitlochry on fish investigation, benthos
studies, botany & chemistry.

FAO:wad MF

Fry, F.E.J. (1957) 581465
In "The Physiology of Fishes. I.
Metabolism", by M.E. Brown, 1957 (see
1:Suppl. 35, 570207) Academic Press,
Inc., New York, :1-63
The aquatic respiration of fish

A general review under the following
headings: the respiratory system; the
metabolic rate.

GLK:sjh

MF

581467
(Card 2)

to some hormones and drugs; the lymph
system.

GLK:sjh

MF

Cartor, G.S. (1957) 581466
In "The Physiology of Fishes. I.
Metabolism", by M.E. Brown, 1957 (see
1:Suppl. 35, 570207) Academic Press,
Inc., New York, :65-79
Air breathing

A general review under the following
headings: occurrence; air-breathing
organs; physiology.

GLK:sjh

MF

Barrington, E.J.W. (1957) 581469
In "The Physiology of Fishes. I.
Metabolism", by M.E. Brown, 1957, (see
1:Suppl. 35, 570207) Academic Press,
Inc., New York, :109-61
The alimentary canal and digestion

A general review under the following
headings: general organization of the
digestive system; buccal cavity &
pharynx; esophagus; stomach; intestine
(mid-gut); roctum (hind-gut); gastric
digestion; intestinal digestion; adapt-
ations of cnzymos to diet; absorption;
the control of digestive functions.

GLK:sjh

MF

Mott, J.C. (1957) 581467
In "The Physiology of Fishes. I.
Metabolism", by M.E. Brown, 1957 (see
1:Suppl. 35, 570207) Academic Press,
Inc., New York, :82-108
The cardiovascular system

A general review under the following
headings: fragmentary nature of the
available information; anatomy; relative
dimensions of the cardiovascular system;
the myocardium; hemodynamics; the
circulatory system & oxygen transport;
the influence of environmental factors;
nervous control of the circulation;
the reaction of the piscine circulation

Black, V.S. (1957) 581470
In "The Physiology of Fishes. I.
Metabolism", by M.E. Brown, 1957, (see
1:Suppl. 35, 570207) Academic Press,
Inc., New York, :163-205
Excretion and osmoregulation

A general review under the following
headings: stenohaline fishes; anadromous
fishes (salmon and lamprey); catadromous
fishes (eel); euryhaline teleost fishes;
concluding remarks.

GLK:sjh

MF

Van Ooston, J. (1957) 581471
In "The Physiology of Fishes. I. Metabolism", by M.E. Brown, 1957 (see 1:Suppl. 35, 570207) Academic Press, Inc., New York, :207-44
The skin and scales

A general review under the following headings: the skin; scales; selected bibliography.

GLK:sjh

MF

Smith, S. (1957) 581474
In "The Physiology of Fishes. I. Metabolism", by M.E. Brown, 1957 (see 1:Suppl. 35, 570207) Academic Press, Inc., New York, :323-59
Early development and hatching

A general review under the following headings: the fish egg; the effects of environmental conditions upon development; metabolism of the egg & alevin; developmental mechanics of the fish egg; hatching.

GLK:sjh

MF

Hoar, W.S. (1957) 581472
In "The Physiology of Fishes. I. Metabolism", by M.E. Brown, 1957 (see 1:Suppl. 35, 570207) Academic Press, Inc., New York, :246-85
Endocrine organs

A general review under the following headings: anatomical relations & generalized statement of function; growth, development, & metamorphosis; metabolism; reproduction; seasonal cycles of endocrine activity.

GLK:sjh

MF

Brown, M.E. (1957) 581475
In "The Physiology of Fishes. I. Metabolism", by M.E. Brown, 1957 (see 1:Suppl. 35, 570207) Academic Press, Inc., New York, :361-400
Experimental studies on growth

A general review under the following headings: theoretical considerations; size hierarchy effect; effects of parental factors on growth; growth cycles & changes in growth rate with age; relation between food & growth; effects of environmental factors on growth; growth hormones; pond culture.

GLK:sjh

MF

Hoar, W.S. (1957) 581473
In "The Physiology of Fishes. I. Metabolism", by M.E. Brown, 1957, (see 1:Suppl. 35, 570207) Academic Press, Inc., New York, :287-321
The gonads and reproduction

A general review under the following headings: structural relationships; physiology of the prospawning fish; fertilization; gestation.

GLK:sjh

MF

Love, R.M. (1957) 581476
In "The Physiology of Fishes. I. Metabolism", by M.E. Brown, 1957 (see 1:Suppl. 35, 570207) Academic Press, Inc., New York, :401-18
The biochemical composition of fish

A general review under the following headings: reliability of methods; factors affecting composition; nature & amount of fish constituents; composition & function; general conclusions; the constituents of fish.

GLK:sjh

MF

Deichmann, E. (1958) 581477
Allan Hancock Pacif. Exped., 11:253-348
The holothurioida collected by the
VELERO III and IV during the years 1932
to 1954. Part II. Aspidochirota

Taxonomic description with the keys.
Station list of the collections given.

FAO:tl

M

Gillespie, G.J. (1958) 581480
Trade News, 10(10):9-11
The Yarmouth project

Ill. report of undersea studies off
Nova Scotia of characteristics &
effectiveness of different types of
traps for Homarus americanus.

FiB:sjh

M

International Commission for the 581478
Northwest Atlantic Fisheries (1958)
Halifax, 103 p.
Sampling yearbook Vol. 1 for the years
1955 and 1956

Gives tables of length & age frequency
distributions of samples of cod,
haddock & redfish from catches by ICNAF
member countries, using various gears.
Introductory analysis of sampling
distribution & method.

SJH:sjh

M

Anonymous (1958) 581481
Trade News, 10(10):14
Big blast wrecks Ripple Rock

Removal of navigational hazard off
British Columbia by explosives;
observations & experiments on effect of
the blast on fish in the vicinity.

FiB:sjh

M

Swann, L.G. (1958) 581479
Trade News, 10(10):3-8
A century of B.C. fishing

Brief ill. history of British Columbia
fisheries & administration & research.

FiB:sjh

MF

Anonymous (1958) 581482
Trade News, 10(10):19-20
Growth of Peruvian fisheries

A note on catches, values & trade.

FiB:sjh

M

Wallace, G.M., L.E. Newman & J.L. Jerrome (1958) 581483
N.Z.J.Sci., 1(1):23-34
Bacteriological survey of Auckland harbours. V. Vertical distribution of sewage in Waitomata harbour

Investigation of mixing of water containing sewage with unpolluted sea water by tidal movement. Postulated methods of dispersal of sewage-polluted water by wind & tide are reconsidered.

FAO:t1

MF

Arrecgros, J. (1958) 581486
Librairie Payot, Lausanne, 63 p.
Coquillages marins (Marine molluscs)

An ill. practical guide for the identification of gastropods & lamolli-branches with instructions for collections.

FAO:hr

M

Barber, N.F. (1958) 581484
N.Z.J.Sci., 1(1):35-51
Optimum arrays for direction finding

Design of array of receivers to explore distribution of wave power with wave direction. Mentions wind generated sea-waves.

FAO:sjh

M

Tåning, A.V. (1958) 581487
FiskBlad., 50:23-5
Rødspættoracer (The races of plaice)

Brief review of the problems of plaice races in the North Sea & possible influence of environmental factors on race characteristics.

FAO:t1

M

Barrett, J.H. & C.M. 581485
Yongo (1958)
Collins Clear-Type Press, London, 272 p.
Collins pocket guide to the sea shore

An ill. introduction to the common & more easily identified animals & plants of the British shores.

FAO:hr

M

Jenson, A.J.C. (1958) 581488
FiskBlad., 50:30-1
Udsigterne for makrelfiskeriet med drivgarn og dørg i det nordlige Kattegat og Skagerrak i maj, juni, juli 1958 (Prospect for mackerel fishery with drift nets and the northern Kattegat & Skagerrak in May, June & July 1958)

Prospect of fishery as determined from prevailing hydrographical conditions.

FAO:t1

M

Costlow, J.D., Jr. & C.G. 581489
Bookhout (1957)
Biol.Bull., Wood's Hole, 113:224-32
Body growth versus shell growth in
Balanus improvisus

Increase of body size through consecutive molting periods, comparison of the relative increase in size of the body with that of the shell, & determination whether or not body growth accompanies an ecdysis.

FAO:tl M

Kanwisher, J. (1957) 581492
Biol.Bull., Wood's Hole, 113:275-85
Freezing and drying in intertidal algae

Discussion of the effect of low temperatures in freezing a large amount of water in certain algae, & description of the natural de-hydration caused by evaporation, & results of measurements showing depressed respiration in frozen & dried states of algae.

FAO:tl M

Crowell, S. & C. 581490
Wyttonbach (1957)
Biol.Bull., Wood's Hole, 113:233-44
Factors affecting terminal growth in the hydroid Campanularia

Contents as per title.

FAO:tl M

Moulton, J.M. (1957) 581493
Biol.Bull., Wood's Hole, 113:286-95
Sound production in the spiny lobster Panulirus argus (Latroille)

Anatomy of the sound-producing mechanism & description of the behaviour of the spiny lobster in relation to sound production.

FAO:tl M

Gross, W.J. (1957) 581491
Biol.Bull., Wood's Hole, 113:268-74
A behavioural mechanism for osmotic regulation in a semi-terrestrial crab

Determination of whether Pachygrapsus crassipos shows preference for sea water of normal salinity or is able to adapt its osmotic regulation to different salinities.

FAO:tl M

Phillips, J.H., Jr. & D.P. 581494
Abbott (1957)
Biol.Bull., Wood's Hole, 113:296-301
Isolation and assay of the nematocyst toxin of Metridium senile fimbriatum

Developing a method of obtaining purified suspensions of nematocysts from sea anemones (Actiniaria) in order to obtain a toxic preparation which could be considered to be nematocystic in origin & could be used in studies on the antitoxic response of a variety of marine invertebrates.

FAO:tl M

Da Franca, P. (1958) 581495
Trab.Miss.Biol.marit., (17-20):9-26
Contribuição para o conhecimento dos
Stromatoidae de Angola (Contribution
to the knowledge of the Stromatoidae of
Angola)

Diagnostic account of the important
characters of Cubiceps niger Nüman,
Paracubiceps ledanoisi Bolloc, Mupus
pringlei Smith, Stromateus fiatola L.,
& Stromateus fasciatus Risso.

HR:glk

M

Marques, E. (1958) 581498
Trab.Miss.Biol.marit., (17-20):133-50
Copépodos dos mares de Angola. II.
Ciclopoida e Harpacticoida (Copepods
of Angolan seas. II. Cyclopoda and
Harpacticoida)

Systematic list with geographic
distribution.

HR:glk

M

De Sousa e Silva, E. (1958) 581496
Trab.Miss.Biol.marit., (17-20):29-85
Nova contribuição para o estudo do
microplâncton marinho de Angola
(New contribution to the study of
marine microplankton of Angola)

Account of the sampling stations &
tabulation of the occurrence of each sp.;
systematic description of some of the
spp. taken.

HR:glk

M

East Africa High 581499
Commission (1958)
London, 85 p.
The annual report of the East Africa
High Commission for 1957

Contains reports on articles of East
African Fishery Research Organization,
E.A. Marine Fisheries Research
Organization, Lake Victoria Fisheries
Service.

FAO:sjh

MF

Monteiro, R. (1958) 581497
Trab.Miss.Biol.marit., (17-20):89-130
Heterosomata de Angola. I. Contribuição
para o estudo das famílias Psettodidae,
Citharidae, Parachthyidae e Bothidae
(Heterosomata of Angola. I. Contribution
to the study of the families Psettodidae,
Citharidae, Paralichthyidae & Bothidae)

Morphometry, incl. regressions of body
parts & tabulations of some meristic
characters, of Psettodes belcheri
Bennett, Citharus linguatula L.,
Citharichthys stampflii Steindachner &
Bothus podas Dolaroche.

HR:glk

M

Hela, I. & F. Koroleff (1958) 581500
Merontutkimuslait.Julk., (179):67 p.
Hydrographical and chemical data
collected in 1957 on board the R/V
ARANDA in the Barents sea

The cruise route, notes on the methods
& techniques used & tabulated hydro-
graphical data including temperatures
at standard depths, read from BT, &
surface temperatures & salinities taken
underway & chemical data (pH, O₂,
alkalinity, PO₄-P, Si, NO₃-N, NH₃-N,
NO₂-N).

FAO:tl

M

Trout, C.G. (1957) 581501
Fish. Invest., Lond., 21(6):51 p.
The Bear Island cod - Migrations and
movements

Contents as per title.

F

581503
(Card 2)
views on the origin & methods of
combating dropsy by this method.

FAO:glk

F

Dürr, W. (1957) 581502
Z. Fisch., 5:325-421
Untersuchungen über die verschiedene
Gestalt der Schuppen beim Karpfen,
Cyprinus carpio L. (Investigations
of the different forms of scales of the
carp, Cyprinus carpio L.)

Detailed description of scale
arrangement on the Scaled Carp; scale
number, size, morphology & development;
a detailed description of 11 normal
scale types & 3 abnormal.

FAO:glk

F

Breitenstein, W. (1957) 581505
Z. Fisch., 5:443-76
Betrachtungen über Rausen der Binn-
fischerei und besonderer Berücksichti-
gung, der Anfertigungsmethoden und der
Normierung (Considerations on traps
in fresh-water fisheries, with partic-
ular regard to terminology, methods of
manufacture, & standardisation)

Systematic account of the terminology
& structure of gears of this type.

FAO:glk

F

Rychlicki, Z. & St. 581503
Zarnecki (1957)
Z. Fisch., 5:423-42
Die Zatorer Karpfenaufzuchtmethodo und
doron Einfluss auf die Beseitigung der
Bauchwassersucht (The Zator-method
of rearing carp and its effect on the
prevention of dropsy)

Comparison of the results obtained with
this new method with those obtained
from the old; attempt to find a
theoretical basis for the results from
the new method; review of the advantages
& disadvantages of the new method; & of

Frömming, E. (1957) 581506
Z. Fisch., 5:477
Giftige Schlammschnockon (Poisonous
mud-snails)

Contents as per title.

FAO:glk

F

Rahn, J. (1957) 581507
Z.Fisch., 6:561-88
Die Fischerei auf dem Sacrower See in
den Jahren 1949 bis 1955 (The
fishery in the Sacrower See from 1949
to 1955)

Description of the lake from the point
of view of fishery research; analysis
of catches by gear & species;
description of the various kinds of
gear used & notes on each of the
important species caught.

FAO:glk

F

Auerbach, M. (1957) 581510
Z.Fisch., 6:605-20
Hat die Schilddrüse für die Temperatur-
adaptation der Fische eine Bedeutung?
(Has the thyroid gland a significance
for temperature adaptation in fish?)

Investigation of the effect of thiouracil
treatment on performance & resistance
adaptation in various fish within normal
temperature range & at extreme
temperatures.

FAO:glk

MF

Koltzow, I. (1957) 581508
Z.Fisch., 6:589-95
Leibeshöhlenverhältnisse der Linksformen
von Pleuronectes platessa L. und Pleuro-
nectes flesus L. (Abdominal cavity
proportions in the left-form of Pleuro-
nectes platessa L. & Pleuronectes
flesus L.)

Examination of the disposition of
various organs in the abdominal cavity
in the normal & reversed forms.

FAO:glk

M

Lellák, J. (1957) 581511
Z.Fisch., 6:621-33
Der Einfluss der Fressstätigkeit des
Fischbestandes auf die Bodenfauna der
Fischteiche (The influence of feed-
ing activity of fish stocks on the
bottom fauna of fish ponds)

Abundance & biomass of the bottom fauna
in the studied ponds; mortality imposed
upon temporary & permanent bottom fauna
by feeding activity of the fish;
evaluation of the annual share of the
bottom animal life in nutrition of the
fish stocks.

FAO:glk

F

Priwolnjow, T.I. (1957) 581509
Z.Fisch., 6:597-603
Die Atmung in der Ontogenese der Fische
bei verschiedenem partiellen Sauerstoff-
druck (Respiration in the onto-
genesis of fish under different partial
pressures of oxygen)

General review of results of examination
of respiratory rates at various
developmental stages & discussion of
the significance of adaptability to
different partial pressures with regard
to speed of development & intensity of
growth.

FAO:glk

F

Deufel, J. (1957) 581512
Z.Fisch., 6:635-8
Zur Ökologie einiger Pseudomonas-Arten
im Bodensee-Obersee (On the ecology
of some Pseudomonas-species in Bodensee-
Obersee)

Distribution of the species is described
& compared.

FAO:glk

F

Wundsch, (1957) 581513
Z.Fisch., 6:639-40
Biologie der mitteleuropäischen Süß-
wasserschnocken (Biology of the
Central European freshwater snail)

Review of the publication with the
same title by Frömming, E., Verlag
Duncker & Humblot, Berlin, 1956, 313 p.

FAO: F

Lisitzin, E. (1957) 581516
Merontutkimuslait.Julk., (176):102 p.
Vedenkorkousarvoja 1953 ja 1954
(Water level records for the years 1953 &
1954). Su Sv En

The grouping of the observation material
is given in the water level tables. From
the tide gauge records, values have been
taken for 6 hours daily, & besides, the
monthly & annual means as well as the
corresponding extreme values. The pole
observations are expressed as mean
values only.

FAO:tl MF

Harris, E.K. (1958) 581514
Biometrics, 14:195-206
On the probability of survival of
bacteria in sea water

Observations analyzed have been drawn
from a larger body of data obtained by
the Public Health Service at the Shell-
fish Sanitation Laboratory, Pensacola,
Florida. Experiments concerned with
survival of coliform & Salmonella
schottmuelleri organisms added in
controlled amounts to carboys contain-
ing natural sea water at various levels
of temperature & salinity (see abstract
580347).

FAO:sjh M

Odum, E.P., E.J. Kuenzler & 581517
M.X.Blunt (1957)
Biol.Bull., Wood's Hole, 113:323
Uptake of P₃₂ in benthic algae in
relation to primary productivity

Abstr. of paper presented at the Marine
Biological Laboratory, 1957. The rate of
uptake of P³², not productivity,
respiration & gross productivity of large
intertidal benthic algae measured
simultaneously in light & dark bottles
suspended in a running sea water aquarium
under controlled light & temperature.

FAO:tl M

Hill, D.R. (1958) 581515
Biometrics, 14:291-2
Some uses of statistical analysis in
classifying races of the American shad
(Alosa sapidissima)

Abstr. of paper presented to meetings
of Biometric Society & AAAS,
Indianapolis, 27-28/12/57.

FAO:sjh MF

Cushing, J.E. (1957) 581518
Biol.Bull., Wood's Hole, 113:327
Tissue transplantation in Pecten
irradians

Abstract of paper presented at the
Marine Biological Laboratory, 1957.
Study concerned with the response of
invertebrates to transplant & the
synthesis of antibodies.

FAO:tl M

Jenner, C.E. (1957) 581519
Biol.Bull., Wood's Hole, 113:328
Schooling behaviour in mud snails in Barnstable Harbor leading to the formation of massive aggregations at the completion of seasonal reproduction

Abstr. of paper presented at the Marine Biological Laboratory, 1957.

FAO: MF

Aiello, E. (1957) 581522
Biol.Bull., Wood's Hole, 113:335
Energy metabolism and ciliary activity of Mytilus gill

Abstr. of paper presented at the Marine Biological Laboratory, 1957. Study of the influence of several organic chemicals on the oxygen uptake & ciliary activity of Mytilus.

FAO:t1 M

Kinne, O. (1957) 581520
Biol.Bull., Wood's Hole, 113:330
Adaptation to salinity and temperature in a euryhaline hydroid

Abstr. of paper presented at the Marine Biological Laboratory, 1957. Study of the influence of salinity & temperature on the physiology & behaviour of Cordylophora caspia.

FAO:t1 MF

Moul, E.T. & D. Mason (1957) 581523
Biol.Bull., Wood's Hole, 113:351
Study of diatom populations on sand and mud flats in the Woods Hole area

Abstr. of paper presented at the Marine Biological Laboratory, 1957. Quantitative study of diatom population on & in the sand during June & August, using cell counts & chlorophyll extraction.

FAO:t1 M

Thies, R.E. (1957) 581521
Biol.Bull., Wood's Hole, 113:333-4
Electrical recording in the living squid

Abstr. of paper presented at the Marine Biological Laboratory, 1957. The resting potential & spontaneous activity of the giant axon were measured in Loligo pealii.

FAO:t1 M

Rockstein, M. & M. Rubenstein (1957) 581524
Biol.Bull., Wood's Hole, 113:353-4
The biochemical basis for positive photokinesis of the starfish, Asterias forbesi

Abstr. of paper presented at the Marine Biological Laboratory, 1957. Pigments were extracted from the dorsal skin & "eyespots" of dark-adapted animals through acid buffer & into alkaline 2% digitonin solutions & their absorption spectra determined before & after exposure to light of wave-lengths from 300 to 700 m μ .

FAO:t1 M

Wilber, C.G. (1957) 581525
Biol.Bull., Wood's Hole, 113:359
Some physiological characteristics of
the fish heart

Abstr. of paper presented at the Marine
Biological Laboratory, 1957. Fish,
varying in size from pipe-fish to
striped bass, were studied electro-
graphically to ascertain whether the
average heart-rate varies, inversely
with body size.

FAO:t1

MF

Wilson, T.H. (1957) 581528
Biol.Bull., Wood's Hole, 113:362
In vitro studies on intestinal
absorption of fish

Abstr. of paper presented at the Marine
Biological Laboratory, 1957. The ability
of fish intestine to transport sugars
& amino acids across the wall against
a concentration gradient was tested
with an in vitro technique.

FAO:t1

M

Schulman, M.P. & G.A. 581526
Lamb (1957)
Biol.Bull., Wood's Hole, 113:261-2
Heme synthesis in peripheral blood of
marine fishes

Abstr. of paper presented at the Marine
Biological Laboratory, 1957. Study of
the incorporation of Fe⁵⁹ into heme by
varying degree of reticulation of the
blood. Following fishes were used: toad-
fish (Opsanus tau), sea robin (Prionotus
carolinus), scup (Stenotomus chrysops),
king mackerel, (Scomberomorus regalis),
bonito (Sarda sarda), smooth dogfish

FAO:t1

M

Engle, R.L., Jr & K.R. Woods (1957) 581529
Biol.Bull., Wood's Hole, 113:363
Phylogenesis of plasma proteins and
plasma cells. II. Observations on the
occurrence of plasma cells in marine
invertebrates and fishes

Abstr. of paper presented at the Marine
Biological Laboratory, 1957. Microscopic
examinations were conducted to determine
whether or not plasma cells are present
in invertebrates & cold-blooded
vertebrates.

FAO:t1

M

581526
(Card 2)
(Mustelus canis), spiny dogfish (Squalus
acanthias), spotted skate (Raja diapha-
nus) and dusty shark (Carcharhinus
obscurus).

Boverton, R.J.H. & S.J. Holt (1957) 581530
Fish.Invest., Lond., Ser. II, 19:533 p.
On the dynamics of exploited fish
populations

A study for fisheries conservation &
management, with application to North
Sea demersal fisheries, especially those
for Pleuronectes platessa, Gadus aegle-
finus & G. callarias, Solca vulgaris &
other spp. incl. salmonidae & freshwater
forms. In 4 parts (Fundamentals of the
theory of fishing, illustrated by
analysis of a trawl fishery - Some
extensions of the simple theory of fish-
ing - Estimation of parameters - The use

581530
(Card 2)

of theoretical models in a study of the dynamics and exploitation of fish populations). Ill., with bibliography, indexes for author, subject & species.

SJH:sjh

MF

Torada, K. (1957) 581534
Proc.UNESCO Symp.phys.Oceanogr., 1955,

Tokyo,:21-5
Measurement of displacement by an electromagnetic device and its application to oceanographic measurements. Fr

Description of some electrical wave & tide measuring instruments.

TL:tl

M

Böhnecke, G. (1957) 581532
Proc.UNESCO Symp.phys.Oceanogr.1955,
Tokyo:17-9

Remarks about the method of investigation into oceanic circulation. Fr

Review of methods used in various branches of oceanography.

TL:tl

M

Ono, K. (1957) 581535
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:26-7

The Ono's self-recording current meter. Fr

Notes on the principles & construction of the current meter.

TL:tl

M

Deacon, G.E.R. (1957) 581533
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:20

Deep-current measurements. Fr

Notes on the use of neutrally buoyant floats for measuring deep currents & some results of the recent measurements with these floats.

TL:tl

M

Iwasa, K. (1957) 581536
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:27-9

An instrument for measuring directly the velocity, direction of the current and the temperature (the direct-reading current meter, model CM-3). Fr

Notes on the principles & construction of the current meter.

TL:tl

M

Nakano, M. (1957) 581537
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :30-7

Some oceanographical instruments recently devised by the members of the Central Meteorological Observatory and its subordinate organs. Fr

Description of Nan'niti's current meter using a phototube; Ota's wave recorder; Ishiguro's & Watanabe's wave recorders, several types of wave analyzed & Agari's remote-reading thermometers.

TL:tl

M

Sasaki, T. (1957) 581540
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :46-8

Three instruments constructed and employed in Japan. Fr

Notes on a temperature-depth recorder, an underwater camera & a G.K.

TL:tl

M

Kusunoki, K. (1957) 581538
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :38-42

On the method of sampling of sea ice. Fr

Description of ice-sampling instruments & notes on the chlorinity of sea ice at various depths.

TL:tl

M

Vinc, A.C. (1957) 581541
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :49-52

Some trends in oceanographic instrumentation. Fr

Notes on current trends in echo sounders, salinity determination, buoyant floats to replace cables anchored buoys at sea current measurements with surface floats, model studies of the ocean circulation & research vessels.

TL:tl

M

Miyako, Y., K. Saruhashi & K. Kamoda (1957) 581539
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :43-5

Micro-analytical method and automatic potentiometric titration method for the chlorinity determination. Fr

Description of the method and apparatus.

TL:tl

M

Inoue, N., S. Nishizawa & M. Fukuda (1957) 581542
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :53-8

The perfection of a turbidity meter and the photographic study of suspended matter and plankton in the sea using an undersea observation chamber. Fr

Description of the undersea observation chamber and the transparency meter.

TL:tl

M

Josoph, J. (1957) 581543
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :59-75

Extinction measurements to indicate
distribution and transport of water-
masses. Fr

Description of instruments & methods,
physical fundamentals & units & results of
measurements in North-European waters
(horizontal & vertical distribution of
suspended matter & its relation to
currents & water masses).

TL:tl M

Takenouti, Y., K. Hata & 581546
M. Torii (1957)
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :96-100

On the forecast of surface water
temperature for the frontal zone of
western North Pacific. Fr

Variation of temperature distribution
below the mixed layer, the energy
exchange between the sea & atmosphere,
& the expansion of warm surface water
towards north.

TL:tl M

Fukuoka, J. (1957) 581544
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :76-86

Variation of the oceanic conditions in
the north western Pacific. Fr

Short period changes of water
temperature, changes of water
temperature in an interval of some months,
long period changes of the oceanic
conditions & relation between wind &
polar front in the ocean.

TL:tl M

Hikosaka, S. & R. Watanabe (1957) 581547
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :101-3

Areas of divergence and convergence of
surface currents in the north-western
Pacific. Fr

Theoretical calculation of divergence &
convergence area in north-western
Pacific.

TL:tl M

Watanabe, N. (1957) 581545
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :87-95

Hydrographic conditions of the north-
western Pacific. I. On the temperature
change in the upper layer in summer.
Fr

Heat balance study & attempt to predict
the local change of temperature from
heat balance & mixing.

TL:tl M

Yoshida, K. (1957) 581548
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :104-6

Coastal upwelling off the California
coast, and its effects on productivity
of the waters. Fr

Description of the nature location &
amount of upwelling, & the factors
influencing it.

TL:tl M

Nakano, M. (1957) 581549
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :107-11

On a problem concerning the vortical circulation of sea water produced by winds with special reference to its bearing on submarine geology and submarine topography. Fr

Influence of wind currents on sediment transport & filling of harbours & bays.

TL:tl M

Ichiyo, T. (1957) 581552
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :116-29

On the variation of oceanic circulation in the adjacent seas of Japan. Fr

Description of short & long period fluctuations in the boundaries & flow of Kuroshio; the wavy pattern of the surface temperature in the polar front region, & the change of the current by travelling cyclones.

TL:tl M

Uda, M. (1957) 581550
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :112-3

Research on the fluctuation of the north Pacific circulation (I). Fr

Fluctuation of the Oyasiwo Current in relation to the atmospheric circulation & the distribution of dichothermal waters.

TL:tl M

Shoji, D. (1957) 581553
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :130-6

On the variations of daily mean sea levels and the Kuroshio from 1954 to 1955. Fr

Dynamic topography & relative current velocities in the Kuroshio region, & their relations to the sea levels along the coast.

TL:tl M

Deacon, G.E.R. (1957) 581551
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :114-5

The deep-water circulation in the Pacific Ocean. Fr

General notes on the circulation & discussion of the causes.

TL:tl M

Hidaka, K. (1957) 581554
Proc. UNESCO Symp. phys. Oceanogr., 1955,
Tokyo, :137

On the Pacific circulation. Fr

Abstract of the results of theoretical studies of circulation, including upwelling into equatorial region.

TL:tl M

Takano, K. (1957) 581555
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :138
Note on the convective circulation.
Fr
Contents as per title.

TL:tl M

Fukai, R. (1957) 581558
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :149-52
On the deep circulation in the north-
western North Pacific with referonce to
vortical distribution of dissolved
oxygen. Fr
Contents as per title.

TL:tl M

Hayami, S. (1957) 581556
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :139
On the dynamics of Kuroshio off the
southern coast of Japan. Fr
Notes on the upwelling of cold water
associated with a cyclonic whirl.

TL:tl M

de Buen, F. (1957) 581559
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :153-5
Pelagic fishes and oceanographic
conditions along the northern & central
coast of Chile. Fr
Notes on the influence of hydrographical
conditions, especially temperature on
the migrations & local abundance of
various pelagic fish.

TL:tl M

Rochford, D.J. (1957) 581557
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :140-8
The use of water mass composition in the
interpretation of eastern Australian
coastal oceanographical data. Fr
Interpretation of trends in eastern
Australian coastal hydrographic data
in terms of the circulation of the
principal Tasman Sea water masses, as an
example of the possible general oceano-
graphical significance of coastal
studies.

TL:tl M

Miyako, Y. & K. 581560
Saruhashi (1957)
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :156-9
On the vortical distribution of the
dissolved oxygen in the ocean. Fr
The relation between dissolved oxygen
& total carbon dioxide in the sea, & the
vortical distribution of dissolved
oxygen & the local population of
plankton.

TL:tl M

Bruun, A.F. (1957) 581561
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:160-8
The ecological zonation of the deep-sea.
Fr

General notes on the ecological zonation of the deep-sea; distribution of some apodal fishes & a mesopelagic cephalopod Spirula spirula.

TL:tl M

Nanda, J.N. (1957) 581564
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:179-81
Physical oceanography in India. Fr
Contents as per title.

TL:tl M

Sugarawa, K. (1957) 581562
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:169-74
The distribution of some minor bio-
elements in western Pacific waters.
Fr

Notes on the methods used & horizontal & vertical distribution of iodine, strontium, arsenic & vanadium.

TL:tl M

Ponyapol, C.A. (1957) 581565
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:182-3
Development of oceanographic work in Thailand. Fr

Contents as per title.

TL:tl M

Ishibashi, M. (1957) 581563
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:175-8
Quantitative distribution of chemical
elements in the sea water. Fr

Relation between the atomic number, the ionic potential & the amount of elements in sea water.

TL:tl M

Hidaka, K. & K. Yoshida (1957) 581566
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo,:184-96
Physical oceanography in Japan in the period 1953-55. Fr

Contents as per title.

TL:tl M

Miyadi, D. (1957) 581567
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :197-203
 Some information of the basic studies on
 marine biology in Japan. Fr
 Notes on the programmes & the marine
 biological stations in Japan.

TL:tl

M

Sorðno, R. & N.-Van-Hai (1957) 581570
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :214-9
 Recherches d'océanographie physique au
 Viet-Nam (Physical oceanographic
 research in Viet-Nam). En
 Summarizes results of oceanographic
 research off the east coast of Viet-
 Nam, & in the Gulfs of Tongkin &
 Thailand.

TL:glk

M

Hiyama, Y. (1957) 581568
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :204-6
 Biological oceanography in Japan. Fr
 Review of the more academic research
 activities on marine biology in Japan,
 which have some relations with fisheries
 biology in general.

TL:tl

M

Ma, T.Y.H. (1957) 581571
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :220-4
 Reef corals used for proving the
 occurrence of shift in crustal masses &
 the equator and submarine features used
 to prove the sudden total displacement
 of the solid earth shell. Fr
 Contents as per title.

TL:tl

M

Qureshi, M.R. (1957) 581569
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :207-13
 Oceanography in Pakistan. Fr
 Review of works planned, in progress &
 completed in the related fields of
 oceanography.

TL:tl

M

Petelin, B.P. (1957) 581572
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :225-37
 The relief of the floor and the bottom
 deposits in the north-west Pacific. Fr
 Description of the bottom profile of
 Kurilo Kamchatka Trench & the
 distribution of sediment types & their
 characteristics in the north-western
 Pacific.

TL:tl

M

Zonkovich, L.A. (1957) 581573
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :238-45

The distribution of sea floor fauna in the north-west Pacific. Fr

Quantitative & taxonomic distribution of benthos in the north-western Pacific, & general notes on the marine faunal regions.

TL:tl

M

Moiseev, P.A. (1957) 581576
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :253-9

Influence of oceanologic regimen of the far-eastern seas on commercial fish population. Fr

Notes on the standing crops of benthos & plankton, general distribution of commercial fish spp., their fecundity & oceanographic conditions affecting the abundance & distribution.

TL:tl

M

Sysoiev, N.N. (1957) 581574
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :246-50

Developments and future in the oceanographic instrument construction in the USSR. Fr

Notes on some conventional oceanographic instruments.

TL:tl

M

Bogorov, B.G. (1957) 581577
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :260-76

Regularities of plankton distribution in north-west Pacific. Fr

Horizontal distribution of plankton communities & the standing crop. Distribution of the standing crop with depth & preliminary list of zooplankton spp. collected in the north-western part of the Pacific Ocean.

TL:tl

M

Zonkovich, L.A. (1957) 581575
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :251-2

Oceanographic research conducted by the USSR in the north-west Pacific. Fr

Notes on Russian institutions in the Far East, conducting oceanographic research & a note on the voyages of R/V VITIAZ.

TL:tl

M

Brujowicz, S.W. (1957) 581578
Proc.UNESCO Symp.phys.Oceanogr., 1955,
Tokyo, :277-92

On certain chemical features of waters and sediments in north-west Pacific. Fr

Horizontal & depth distribution of salinity, temperature, oxygen, pH, phosphates & silicates in a few typical stations; chemical classification of water masses & notes on the chemistry of bottom sediments & their interstitial water.

TL:tl

M

<p>Jaasund, E. (1957) 581579 <u>Bot. Notiser</u>, 110:205-31 Marine algae from northern Norway. II Taxonomic description of senile algae. Continuation from earlier number of this bulletin.</p> <p>FAO:tl M</p>	<p>Pape, A. (1957) 581582 <u>Fischwirt</u>, 7:264-6 Die Binnenfischerei Schleswig-Holsteins (Inland fisheries of Schleswig-Holstein) Value of the inland fish production & the prices. Continuation from earlier number.</p> <p>FAO:tl</p>
<p>Thomasson, K. (1957) 581580 <u>Bot. Notiser</u>, 110:251-64 Contributions to the knowledge of the plankton in Scandinavian mountain lakes. 4 Description of 5 spp. of <u>Staurastrum</u>, one de novo.</p> <p>FAO:tjj F</p>	<p>Gray, J. (1957) 581583 <u>Sci. Amer.</u>, 197(2):48-54 How fishes swim Illustrated discussion of implication of recent work on swimming method & speed of various fishes & marine mammals.</p> <p>FAO:sjh MF</p>
<p>Mann, H. (1957) 581581 <u>Fischwirt</u>, 7:257-63 Chemische Untersuchungen im Hamburger Hafen (Chemical investigations in the harbour of Hamburg) Short review of the pollution problems, with special emphasis on industrial pollution.</p> <p>FAO:tl M</p>	<p>Qureshi, M.R. (1957) 581584 <u>Agric. Pakist.</u>, 8(2):98-137 A field-key to the identification of fishes. 3. Clupeiformes (Isospondyli, Malacopterygii) Gives a systematic account of families, subfamilies & genera; systematic description of the spp. commonly found & their distribution & common names.</p> <p>FAO: MF</p>

Movchan, V.A. (1957) 581585
Priroda, Moskva, 46(8):45-50
Prudovoe rybovodstvo (Pond pisci-
culture)

Pisciculture is a high-yield branch of farming. Describes an efficient system of ponds, each meeting requirements of various stages of fish breeding. Enumerates the scientific bodies which contribute towards efficient fish-farming. Describes spp. grown & yields obtained at exemplary fish-farming concerns.

FAO:go

F

Kisilev, O.N. (1957) 581588
Priroda, Moskva, 46(8):98-9
Podvodnoe tolovidenie (Sub-marine
television)

Brief description of set, its use & results during recent experiments in the Barents Sea. Reference to newly produced set, described in Priroda, Moskva, (1), 1957.

FAO:go

M

Lamakin, V.V. (1957) 581586
Priroda, Moskva, 46(8):121-2
Interosnaia broshiuira o Baikale
(Interesting pamphlet on the lake Baikal)

Review of publication by M.M. Kozhov, "Baikal & its life", Irkutskoo knizhnoc izd., 44 p., 1956.

FAO:go

F

Ogulchansky, A.Y. (1957) 581589
Priroda, Moskva, 46(8):102-4
Nakhodka skelota iuzhnogo slona na
berogu Azovskogo moria (Skeleton of
Archidiskodon meridionalis Nesti, found
on the Azov Sea shore)

Description of the find. Geography & geology of the area.

FAO:go

M

Savoskin, I.P. (1957) 581587
Priroda, Moskva, 46(8):92-3
Morskoi luk (Sea Onion (Urginea
maritima L. Baker))

Description, use & areas of distribution, acclimatization white variety - medical plant. Red variety - raticide.

FAO:go

M

Nosal, A.D. (1957) 581590
Priroda, Moskva, 46(8):104
Poljad v Dnopro (Coregonus polod in
the river Dnioper)

Possibility of acclimatization indicated by the good development of a specimen, caught in the Dnioper. The only possible origin of this specimen is a whitefish-farm in the region from which a number of yearlings escaped 9 months prior to the catch.

FAO:go

F

<p>American Geological Institute (Publ.) (1957) 581591 <u>Washington, D.C.</u>, 325 p. Glossary of geology and related sciences</p> <p>Gives definitions, usago & variants of English terms & some in other languages for which there are no English equivalents. Incl. many terms relating to sedimentation.</p> <p>FAO:sjh MF</p>	<p>Ramirez, M.V. (1957) 581594 <u>Bol.Soc.venezol.Cienc.nat.</u>, 18:157-62 Nuevas especies para la fauna ictiologica Venezolana (New species for the ichthyological fauna of Venezuela)</p> <p>A list of spp. of the families Characidae & Nandidae.</p> <p>FAO:hr F</p>
<p>Nadaud, J. (1957) 581592 <u>Encyclopédie Casterman, Belgique</u>, 92 p. Tous les poissons et la pêche (All fishes and fisheries)</p> <p>A popular illustrated book containing information on marine & fresh water fishes & other aquatic organisms, their environment & fisheries.</p> <p>FAO:hr MF</p>	<p>Le Danois, E. (1957) 581595 <u>George G. Harrap & Co. Ltd., London</u>, 191 p. Marine life of coastal waters (Western Europe)</p> <p>Brilliantly ill. semi-popular account of the sea-coast, life in various zones & habitats, with major section on life on sandy & muddy shores, & special account of the Mediterranean coast of France.</p> <p>FAO:glk M</p>
<p>Weibezahn, F.H. & M.V. 581593 Ramirez (1957) <u>Bol.Soc.venezol.Cienc.nat.</u>, 18:153-6 Mortandad de peces de agua dulce causada por un crustaceo parasito, <u>Artystone trysibia</u> Schiodte, 1866 (Isopoda, Cymothoidae) (Mortality of fresh water fishes caused by a crustacean parasite <u>Artystone trysibia</u> Schiodte, 1866 (Isopoda, Cymothoidae))</p> <p>A record of the parasite cause of mortality among the freshwater spp. (<u>Aequidens tetramerus</u>, <u>A. pulcher</u> & <u>Mollienosisia sphenops</u>), with notes on its parasitic effect on the host & its relation to man.</p> <p>FAO:hr F</p>	<p>Voight, W., Jr. (1958) 581596 <u>Penn. Angler</u>, 27(4):10-1 Sub-channels</p> <p>Describes the specifications for low flow channels, a type of improvement device for streams affected by bridge & highway & flood control measuros.</p> <p>GLK:wad</p>

Lühmann, M. & H. Mann (1957) 581597
Arch.FischWiss., 8(1-2):1-11
Über Organgewichte bei Karpfen (The
weights of organs in carp). En

The changes of growth of internal organs & parts of the body of normally grown carps were investigated, as well as the modifying influence of the surroundings on fast growing, slow-growing & badly grown fishes.

GLK:tl

F

581599
(Card 2)

(Squalius cephalus L.) & Chondrostoma nasus L., have been described, the values for the rays of all fins are given.

GLK:tl

F

Amlacher, E. (1957) 581598
Arch.FischWiss., 8(1-2):12-31
Der Blutzucker normaler und an infektiöser Bauchwassersucht erkrankter Karpfen (K₂) (The blood sugar of normal carps (K₂) & carps sick with infections dropsy). En

The total reduction of carp-blood (Oxalat blood) was ascertained in healthy & artificially infested, as well as partly in naturally ill K₂, by means of the methods according to Hagedorn-Jensen, Neuwoiler, & Crocchius-Scifert. The influence of different environmental conditions on the sugar content was also investigated.

GLK:tl

F

Schweiger, G. (1957) 581601
Arch.FischWiss., 8(1-2):54-78
Die toxikologische Einwirkung von Schwermetallsalzen auf Fische und Fischnährtiere (Toxiological influence of the salts of heavy metals on fish and fish food animals). En

Experiments testing the effect of the heavy metal salts mercury, cadmium, nickel, cobalt & mangan upon fishes (tench, carps, rainbow-trouts, brook-trouts) & fish food animals (Carinogammarus rooseelii, Tubifex tubifex, Chironomus thummi-larvae, Anabolia nervosa-larvae).

GLK:tl

F

Miaskowski, M. (1957) 581599
Arch.FischWiss., 8(1-2):32-53
Variabilitätsstudien an den Flossen der Cypriniden (Studies on the variability of the fins of Cyprinids). En

After the characteristics of the types of fin-rays of abundant sp. of Cyprinids i.e. crucian carps (Carassius carassius L.), carp bream (Abramis brama L.), white bream (Blicca bjoerkna L.), roach (Leuciscus rutilus L.), rudd (Scardinius thymallus L.), dace (Leuciscus leuciscus L.), bleak (Alburnus lucidus Heck.), barbel (Barbus barbus L.), chub

Thurow, F. (1957) 581602
Arch.FischWiss., 8(1-2):79-93
Über den Trockensubstanz- und Fettgehalt von Aalen aus der Kieler Bucht und der Kieler Förde (On the content of dry substance & fat of eels from Bight of Kiel & Kiel Fjord). En

Distribution of fat in the body, seasonal variations in dry substance & fat content, & their relations to growth.

GLK:tl

MF

Halsband, E. (1957) 581603
Arch.FischWiss., 8(1-2):140-50
Der Einfluss der Stoffwechsellintensität
auf die Reizempfindlichkeit der Fische
gegen elektrischen Strom (The
influence of the intensity of metabolism
on the sensitivity of fish to electric
current). En

The relation between the intensity of
metabolism of a fish & its reaction in
the electrical field was determined.

GLK:tl

F

Meyer-Waarden, P.F. & A. 581606
von Brandt (1957)
Schr. der Bundesforschungsanstalt für
Fischerei, Hamburg, 341 p.
Die Fischwirtschaft in der Bundes-
republik Deutschland (The fishing
industry of the Federal Republic of
Germany)

After discussing the basic conditions,
problems, & development of fisheries in
West Germany & of fisheries as economic
factor, describes the vessels, gear,
ports & markets, foreign trade, market-
ing & processing, administration,
institutions & services.

SJH:glk

MF

Nikolski, G.W. (1957) 581604
Dtsch.Verl.d.Wissenschaften, Berlin,
632 p.
Spezielle Fischkunde (Special
ichthyology)

MF

Bahr, Kl. (1957) 581607
Arch.FischWiss., 8(1-2):178
Die Fischwirtschaft in der Bundes-
republik Deutschland (The fishing
industry of the Federal Republic of
Germany)

Review of 581606.

GLK:

MF

Krefft, (1957) 581605
Arch.FischWiss., 8(1-2):176-7
Spezielle Fischkunde (Special
ichthyology)

Review of 581604.

GLK:

MF

Lümann, (1957) 581608
Arch.FischWiss., 8(1-2):177-8
Biologie der mitteleuropäischen Süß-
wasserschnecken (Biology of the
central European freshwater snail)

Review of publication with the same
title by Frömming, E., Vorlag Duckor &
Humblot, Berlin, 313 p., 1956.

GLK:

F

<p>Lühmann, (1957) 581609 <u>Arch.FischWiss.</u>, 8(1-2):180 Düngung in der Teichwirtschaft (Fertilization in fish culture)</p> <p>Review of publication with the same titlo, by Wunder, W., <u>Tellus-Verlag</u>, <u>Essen</u>, 75 p., 1956.</p> <p>GLK: F</p>	<p>Anonymous (1957) 581612 <u>Dansk FiskTid.</u>, 75:29-33 Totaludbyttet af det danske fiskeri i 1956 (Total yield of Danish fishery in 1956)</p> <p>Review of fisheries statistics.</p> <p>FAO:tl M</p>
<p>Fischer, O. (1957) 581610 <u>Verlag von Dietrich Reimer, Berlin</u>, 314 p. Landgewinnung und Landerhaltung in Schleswig-Holstein. 7. Hydrographie des Küstengebietes (Bonification and maintonance of the land in Schleswig- Holstein. 7. Hydrography of the coastal area)</p> <p>M</p>	<p>Welle-Strand, E. (1957) 581613 <u>Dansk FiskTid.</u>, 75:55 Norge udbygger en havgående fiskoflåde til fjernfiskeri (Norway projects a sea-going fishery fleet for distant fishery)</p> <p>Notes on the plans of building a off- shore fisheries fleet with factory ships.</p> <p>FAO:tl M</p>
<p>Moyer-Waarden, P.F. (1957) 581611 <u>Arch.FischWiss.</u>, 8(1-2):180 Landgewinnung und Landerhaltung in Schleswig-Holstein. 7. Hydrographie des Küstengebietes (Bonification and maintonance of the land in Schleswig- Holstein. 7. Hydrography of the coastal area)</p> <p>Review of 581610.</p> <p>GLK: M</p>	<p>Anonymous (1957) 581614 <u>Dansk FiskTid.</u>, 75:97-100 De fiskeribiologiske undersøgelser 1956 i de indre danske farvande (Fisheries biological investigations during 1956 in the Danish coastal waters)</p> <p>Review of the investigations on plankton, benthos, flatfish fry, plaice, gadids, col, salmon & pollution of coastal waters.</p> <p>FAO:tl MF</p>

<p>A.F. (1957) 581615 <u>Dansk FiskTid.</u>, 75:129 Plan om dansk fjernfiskeri med 4 nye storkuttere (Plan on Danish distant fishery with 4 new big cutters)</p> <p>Notes on the earlier experiences & future plans for expansion of Danish fishery with big vessels to Barents Sea & Greenland waters.</p> <p>FAO:t1 M</p>	<p>Anonymous (1957) 581618 <u>Dansk FiskTid.</u>, 75:155-6 Undersøgelser i de friske vande (Investigations in the fresh water)</p> <p>Review of the Danish investigations in inland fisheries & pollution during 1956.</p> <p>FAO:t1 F</p>
<p>Anonymous (1957) 581616 <u>Dansk FiskTid.</u>, 75:145-6 Fiskeriundersøgelserne ved Faerøerne og i nordligere havområder (Fisheries investigations by Faeroers and in the northern sea areas)</p> <p>Review of the principal results of Danish investigations in North Atlantic & notes on long-period changes in these waters.</p> <p>FAO:t1 M</p>	<p>Anonymous (1957) 581619 <u>Dansk FiskTid.</u>, 75:177 Blødengrund-sildenes vandring udforsket under norsk ledelse (The migrations of the herring of Bløden Bank are investigated under Norwegian leadership)</p> <p>Notes on the plans for international herring investigations in the North Sea.</p> <p>FAO:t1 M</p>
<p>Hansen, P. (1957) 581617 <u>Dansk FiskTid.</u>, 75:153-5 Store udvandring af torsk fra farvandet ved Grønland (Great emigration of cod from the Greenland waters)</p> <p>Notes on the distribution of cod larvae around Greenland & strength of various year-classes of cod.</p> <p>FAO:t1 M</p>	<p>Nielson, B.R. (1957) 581620 <u>Dansk FiskTid.</u>, 75:237-8 Fiskeriforholdene i Chile (Fisheries conditions in Chile)</p> <p>Short review of the present conditions & future plans for expansion.</p> <p>FAO:t1 M</p>

<p>Birnø, K.E. (1957) 581621 <u>Dansk FiskTid.</u>, 75:367-70 Om forureningen af vore vandområder (On pollution of our water areas)</p> <p>Review of the pollution of waters incl. coastal areas of the sea & the influence of pollution of fish.</p> <p>FAO:t1 MF</p>	<p>Anonymous (1957) 581624 <u>Dansk FiskTid.</u>, 75:498 Nyt havbiologisk institut fra nytår (New marine biological institute in the new year)</p> <p>Notes on the establishment of new institute in Helsingør under the leadership of Dr. G. Thorsson.</p> <p>FAO:t1 M</p>
<p>Birnø, K.E. (1957) 581622 <u>Dansk FiskTid.</u>, 75:379-81 Forurenode fiskovande og opklaring af foreliggende forureningsårsager (Polluted fish-waters & determination of the causes of pollution)</p> <p>Notes on the possible sources of pollution & ways of locating the source.</p> <p>FAO:t1 F</p>	<p>Bertelson, E. (1957) 581625 <u>Dansk FiskTid.</u>, 75:565-8 De internationale sildmærkninger i Nordsøen (The international tagging of herring in the North Sea)</p> <p>Review of the programme & notes on preliminary results of recapture.</p> <p>FAO:t1 M</p>
<p>Jensen, A.J.C. (1957) 581623 <u>Dansk FiskTid.</u>, 75:443 Vandtemperaturerne har i år begunstiget gulåls forvandling til blankål (The water temperatures have promoted the metamorphosis of yellow eel to silver eels in this year)</p> <p>Notes on the influence of the temperature of the metamorphosis of eel before spawning migration.</p> <p>FAO:t1 MF</p>	<p>Moyer-Waarden, P.F. (1957) 581626 <u>Fish.Stud., F.A.O.</u>, (7):78 p. Electrical fishing</p> <p>A review, with illustrations & tables of experimental results, & dealing with basic principles, applications, protective measures against misuse of electrical fishing gear, prediction of future use; bibliography.</p> <p>SJH:sjh</p>

Tsceb, Ya.Ya., (1958) 581627
Zool.Zh., 37:3-12
Sostav i rolichestvonnoc razvitie fauny mikrobtntosa nizoviov Dncpra i vodocmov Kryma (Composition & quantitative development of microbenthal fauna in the down stream of the Dnioper & in the bodies of water of the Crimea). En

Results of quantitative study of benthos in the river Dnioper & water reservoirs of Crimea & Kakhovka.

FAO:tl

F

Ovchinnikova, T.I. (1958) 581630
Zool.Zh., 37:131-4
O zarazhonnosti molliuska Bithynia leachi Schopp. i karpovykh ryb lichinochnymi stadiiami Opisthorchis folineus (Rivolta, 1884) v ochage opistorkhoza v Sumskai oblasti (On the infection of the mollusc Bithynia leachi Schopp. and cyprinidae-fishes with the larval stages of Opisthorchis folineus (Rivolta, 1884) in the nidus of Opisthorchosis in Sumy-region). En

Study of molluscs & fishes of Cyprinidae family carried out in the nidus of opisthorchosis in the Pissarov district, Sumy-region (on the Vorskla R.) has

Sveshnikov, V.A. (1958) 581628
Zool.Zh., 37:20-6
Novye dlia Belogo moria vidy polikhet (Polychaets species new to the White Sea). En

9 new spp. for White Sea are described: Mystides southerni Balso (Phyllodocidae), Pterosyllis formosa Claparède, Eusyllis lamelligera Marion et Bobretzky, Autolytus prismaticus (O. Fabricius), A. prolifer (O.F. Müller) (Syllidae), Polydora ciliata ciliata (Johnston) (Spiro-nidae), Dodecacoria concharum Oersted (Cirratulidae), Heteromastus filiformis (Claparède) (Capitollidae), & Nicomache minor Arwidsson (Maldanidae).

FAO:tl

M

581630
(Card 2)
shown the presence of larval forms of Opisthorchis folineus (Rivolta, 1884) in these intermediate hosts.

FAO:tl

F

Nikolskii, G.V. (1958) 581629
Zool.Zh., 37:41-56
O vliianii vylova na strukturu populiatsii promyslovoi ryby (Effect of the catch on the population structure of commercial fishes). En

Discussion of effect of catch on the size & age composition of fish stocks with short & long life cycles. Version of paper of same title submitted to Joint Scientific Meeting of ICNAF/ICES/FAO, Lisbon, 1957.

FAO:tl

MF

Baur, O.N. & V.M. Ivasik (1958) 581632
Zool.Zh., 37:144-6
Populiarnyi kurs ikhtiopatologii (Popular course on ichthyopathology)

Review of 27 lectures delivered in 1952 by 17 Czech experts (Kurs Ludowych Rybarskych Pathologu. Rod.Hanzal J., Praha, 1956), on diseases, parasites & onomics of fish, causes & remedies, breeding, hypophysis injections, fish-marking, pond maintenance, food, inter-breeding, selection.

FAO:go

MF

<p>Lange, A.B. (1958) 581633 <u>Zool.Zh.</u>, 37:151-6 Vtoroe soveshchanie ombriologov SSSR (Second conference of USSR embryologists)</p> <p>150 papers on the "relation between organisms & their environments at various stages of development". The majority deals with experimental embryology. Many lectures regard connections between biological research & animals' breeding, commercial use & acclimatization.</p> <p>FAO:go</p>	<p>Orloff, G. (1958) 581636 <u>Curr.Bibliogr.Fish.Sci.</u>, 1(5):Suppl.4-5 Second meeting of the International Commission for Fishery Research in the Western Pacific</p> <p>Abridged translation of 581635.</p> <p>FAO: M</p>
<p>Orloff, G. (1958) 581634 <u>Curr.Bibliogr.Fish.Sci.</u>, 1(5):Suppl.1-4 Second conference of embryologists of the USSR</p> <p>Abridged translation of 581633.</p> <p>FAO:</p>	<p>Lindberg, G.U. (1958) 581637 <u>Zool.Zh.</u>, 37:146-7 Morfologia i sistematika ryb (Fish morphology and hierarchy)</p> <p>Review of original publication with the same title by Matsubaru, K., <u>Ishizaki-Shoten</u>, Tokyo, 1955, 1605 p.</p> <p>FAO: MF</p>
<p>Nikolskii, G.V. (1958) 581635 <u>Zool.Zh.</u>, 37:158-60 Vtoroi plenum mezhdunarodnoi komissii po rybokhoziaistvennym issledovaniyam v zapadnoi chasti Tikhogo okciana (Second meeting of the International Commission for Fishery Research in the Western Pacific)</p> <p>China, N. Korea, N. Vietnam & USSR represented in the Commission, created for promoting oceanologic & limnologic research, increasing commercial aquatic animals reserves. Over 30 lectures were delivered.</p> <p>FAO:go M</p>	<p>Raikova, E.V. (1958) 581638 <u>Zool.Zh.</u>, 37:345-58 Zhiznennyi tsikl <u>Polypodium hydriforme</u> Ussov (Coelenterata) (The life cycle of <u>Polypodium hydriforme</u> Ussov (Coelenterata)). En</p> <p>Parasite of sturgeon eggs feeding yolk. Study of its development with the scope of finding remedies. Prophylactic measures recommended.</p> <p>FAO:go F</p>

Kirianova, E.S. (1958) 581639
Zool.Zh., 37:359-72
Strochnic kopuliativnogo apparata samtsov
presnovodnykh volosatikov (Nematomorpha,
Gordioidea) (On the structure of the
copulative organs of males of the fresh-
water hairworms (Nematomorpha, Gordioi-
dea)). En

Description of the organs of 5 spp.
First contribution to more ample
studies.

FAO:go

F

Novikov, N.P. (1958) 581642
Zool.Zh., 37:461-3
Presnovodnaia ikhtiofauna nekotorykh
pribroznykh ostrovov Iaponskogo moria
(Freshwater ichthyofauna of certain
islands lying off the coast of Japan).
En

6 of the spp. of fish found on 2 of the
islands do not endure salt water. They
could not have been introduced by man.
Proof that these islands formed part of
the mainland.

FAO:go

F

Mikhailov, T.K. (1958) 581640
Zool.Zh., 37:373-8
Parazitofauna kofali Kaspiiskogo moria
(Parasitofauna of Mugil saliens Risso
of the Caspian Sea). En

Description of 8 spp. of parasites
found on Black Sea mullets acclimatized
in the Caspian. 3 of these were unknown
in the Caspian & 4 never found on
mulletts in their natural habitat.

FAO:go

M

Aleev, Iu.G. (1958) 581643
Zool.Zh., 37:463-5
O dvizhenii Zeus faber L. (Motions
of Zeus faber L.). En

The study of swimming motions & behaviour
of Zeiformes, closely related to Pleuro-
nectiformes, seems to show the reasons
for which the latter acquired their
present shape & position.

FAO:go

M

Poliakov, G.D. (1958) 581641
Zool.Zh., 37:403-14
O prispособitel'nom znachenii izmenchi-
vosti vesa segolotkov karpa (Weight
variability of carp fingerlings as a
sign of adaptability). En

Variability of certain individual
characteristics of fish is a sign of
adaptability of the entire stock to
altering living conditions, & not the
result of incidental natural selectivity
of specimens.

FAO:go

F

Mordukhai-Boltovskoi, F.D. (1958) 581644
Zool.Zh., 37:470-4
Fauna bezpozvonochnykh nizoviev rek
Ukrainy, usloviia ee sushchestvovaniia i
puti ispolzovaniia (Invertebrates of
the lower course of Ukrainian rivers,
conditions in which they live & the ways
in which they can be utilized)

Review of publications with the same
title by Markovskii, Iu.M., Akademiia
nauk Ukrainskai SSR, 'Inst. gidrobiologii'
Pt. 1, 1953, Pt. 2, 1954, Pt. 3, 1955,
700 p.

FAO:

MF

Boldyr, E.D. & G.K. 581645
Petrushovskii (1958)
Zool.Zh., 37:474-5
Review of articles by 11 Chinese & 1
Russian scientist, Acta hydrobiol.sin.,
1956, (2):129-335

Dealing with anatomy, parasitology,
fish-farming, plankton, etc. The
articles are supplemented by detailed
summaries & many illustrations.

FAO:go

MF

Timm, R.W. (1957) 581648
Pakist.J.sci.Res., 9(4):133-7
New marine nematodes from St. Martin's
Island

Paracanthonchus tumopapilatus n. sp.,
Camacolaimus bulbosus n. sp., Pseudalcl-
loides bengalensis n.g., n.sp., Steinerla
pilosa (Cobb 1914) var. brevistosa n.var.
Thoristus (Mosotheristus) sancti-martoni
n. sp. described & ill., from Bay of
Bengal, E. Pakistan.

:sjh

M

Khaberman, Kh.M. (1958) 581646
Zool.Zh., 37:476-80
O zoologicheskikh issledovaniakh v
Estonskoi SSR (Zoological research
in the Estonian SSR)

Activity of scientific bodies &
zoologists in Estonia. Authors & titles
of publications dealing with hydro-
biology & ichthyology.

FAO:go

MF

Stephens, R.C., R.L. Fisher & 581649
R.G. Miller (1957)
Trans.N.Amer.Wildl.Conf., 22:445-57
Food preferences of California surf
fishes with a review of available baits

Stomach contents analysis with special
reference to preferences displayed by
the investigated species for the bait
species on sale, with notes on the
availability of the bait species.

W.D:glk

M

Haque, S.M.A. (1957) 581647
Pakist.J.sci.Res., 9(4):123-5
A mathematical model of flood waves from
tropical cyclones

It is assumed that water is deposited
on the sea-surface symmetrically about a
centre, & the speeds of propagation of
dynamic & kinematic waves on this mass
of water are determined for large &
small distances from the centre under
certain restrictive assumptions.

:sjh

M

Suarez Caabro, J.A. (1957) 581650
Noverim, 2(6):14 p.
Investigaciones sobre el plancton marino
de Cuba (Research on marine plankton
of Cuba). En Fr

Expounds the importance & objectives of
the investigations of the marine plankton
of Cuba. An outline of planktonology in
Latin America is included.

F:Behr

M

<p>Stock, J.H. (1957) 581651 <u>Bull. Sea Fish. Res. Sta., Haifa, (13):13-4</u> Contributions to the knowledge of the Red Sea. 2. Pycnogonida from the Gulf of Aqaba</p> <p>Taxonomic notes on <u>Rhopalorhynchus</u> <u>podunculatum</u> & <u>Ammotholla appendiculata</u> (Dohrn).</p>	<p>E.B. (1958) 581654 <u>Ost. Fisch., 11:66-7</u> Früchte des Meeres (Fruits of the sea)</p> <p>Review of 581653.</p>
<p>SJH:sjh M</p>	<p>M</p>
<p>Homsen, J. (1958) 581652 <u>Ost. Fisch., 11:50-6</u> Über die Biologie des Aales (On the biology of eels)</p> <p>Summary of the life history & migrations of the european eel.</p>	<p>Chow, L. (1958) 581655 <u>News Lett. I.R.C., 7(1):1-7</u> Rotational irrigation for rice - a revolution in Taiwan</p>
<p>FAO:tl. MF</p>	<p>FAO: F</p>
<p>Demoll, R. (1957) 581653 <u>Springer-Vorlag, Berlin, 142 p.</u> Früchte des Meeres (Fruits of the sea)</p>	<p>Bulanadi, J. & P.B. Aldaba (1958) 581656 <u>News Lett. I.R.C., 7(1):7-10</u> Effects of water depth on the growth and yield of lowland rice</p>
<p>M</p>	<p>F</p>

Ponnamperuma, F.N. (1958) 581657
News Lett.I.R.C., 7(1):10-3
Lime as a remedy for a physiological
disease of rice associated with excess
iron

F

Hoather, R.C. (1957) 581660
J.appl.Bacteriol., 20:180-7
Effect of thiosulphate and of phosphate
on bactericidal action of copper and
zinc in samples of water

F

Anonymous (1958) 581658
News Lett., I.R.C., 7(1):14-5
Time and methods of application of urca

F

Adlung, K.G. (1957) 581661
Naturwissenschaften, 44:622-3
Toxicity of insecticides towards fish
and the dependence on temperature

Young gold-fish & cyprinodonts were
used as test animals, the substances
tested being in the form of either
emulsions or acetone solutions, concn.
being in p.p.m. at room temperature.

:sjh

F

Smith, H.H. (1958) 581659
Bot.Rev., 24:1-24
Radiation in the production of useful
mutations

A review with a bibliography of 90
references.

:sjh

MF

Anonymous (1957) 581662
Analyst, 82:683-708
Recommended methods for the analysis of
trade effluents. Determination of
oxygen demand

F

Stolzmann, Z., J. Chmiel & H. Kron (1957) 581663
Bull.Soc.Amis Sci.Poznań, 70:33-48
The influence of temperature on the osmotic stability of erythrocytes

MF

Drilhon, A. & J.M. Fino (1957) 581666
C.R.Acad.Sci.Paris, 245:1676-9
Proteins in some species of fish

M

Hudson, M.S. & B. Hudson (1957) 581664
Weeds, 5:371-3
A laboratory test for screening chemicals for toxicity to submerged aquatic plants

F

Nowell, B.S. (1957) 581667
E.Afr.agric.J., 23:127-9
The nocturnal reduction of dissolved oxygen in dams

F

Seronkov, G.P., M.V. Pakhomova & I.G. Borisova (1957) 581665
Vestn.Moskovsk Univ., 12(3):77-85
Comparative biochemical investigation of two green algae

F

Guest, N.J. & G.P.Lcedal (1957) 581668
Rec.geol.Surv.Tanganyika, 3:54-7
The waters of lake Duluti

F

Barker, F.B. & L.L. 581669
Thatcher (1957)
Analyt. Chem., 29:1573-5
Modified determination of radium in
water

F

Deolalkar, S.T. & Kamala 581672
Sohonie (1957)
Indian J.med.Res., 45:571-86
Thiaminase from fish. I. Properties of
thiaminase

F

Thatcher, L.L. & F.B. 581670
Barker (1957)
Analyt. Chem., 29:1575-8
Determination of uranium in natural
waters

F

Deolalkar, S.T. & Kamala 581673
Sohonie (1957)
Indian J.med.Res., 45:587-92
Thiaminase from fish. II. The effect of
certain compds. on thiaminase activity

F

Lacy, W.J. & D.C. Lindsten (1957) 581671
Ind.Eng.Chem., 49:1725-6
Removal of radioactive contaminants
from water by ion-exchange slurry

F

Nigrolli, F.Ross (1958) 581674
Trans.N.Y.Acad.Sci., 20:248-62
Dutchman's baccy juice or growth-
promoting and growth-inhibiting
substances of marine origin

M

Battaglia, B. (1957) 581675
Année biol., 33:259-68
Ecological differentiation and incipient
intraspecific isolation in marine
copepods

M

Cordier, D., R. Barnoud & 581678
A.M. Brandon (1957)
C.R.Soc.Biol., Paris, 151:739-42
Influence of passage from sea water to
fresh water or supersaline sea water on
the respiratory exchanges of Gobius
auratus and G. lota

When gobies were transferred from sea
water to fresh water the O consumption
decreased about 50% after 4 hours, with
no significant change in body weight.
When transferred from normal sea water
(36 g. salts/l.) to supersalted sea
water (80 g. salts/l.) for 4 hours there
was no change in O consumption & no
deaths, but an av. 13% loss in body wt.
:tl MF

Richter, G. (1957) 581676
Naturwissenschaften, 44:520-1
Ribonucleic acid synthesis in gorm-free
portions of green algae

The ribonucleic acid (RNA) synthesis of
Acetabularia mediterranea was
investigated. Only the rhizoid contg.
nuclei produced RNA when illuminated
12 hours daily over a 28-day period.

:tl

F

Toyomizu, M. (1957) 581679
Nippon Suisan Gakkaishi, 22:368-73
Antibiotic action of fish components.
IX. Relation between the antibiotic
action of the autoxidized shark liver
oil and thiobarbituric acid value

M

Follman, G. (1958) 581677
Planta, 50:671-700
The uptake and binding of water and
nonelectrolytes by the cells of diatoms

5 centric & 5 pennate diatoms were
studied for their uptake & binding of
water, sucrose, erythritol, malonamide,
glycerol, urea, methylurca, ethylene
glycol, acetamide & propionamide.

:tl

F

Migita, M. & J.J. 581680
Matsumoto (1957)
Nippon Suisan Gakkaishi, 22:561-8
The extractability of the muscle
proteins of marine animals

M

Lazarow, A., & al. (1957) 581681
Biol.Bull., Woods Hole, 113:414-25
The isolated islet tissue of fish. II.
The effect of electrolytes and other
factors on the oxygen uptake of pan-
creatic islet slices of toadfish, using
the cartesian diver micro-respirometer

Respiration of pancreatic islet tissue
slices of toadfish (Opsanus tau) was
studied under varying conditions of pH,
tonicity, electrolyte compn., trace
metals, & serum protein.

:tl

F

Jančařík, A. (1957) 581684
Ann.Acad.tchecosl.Agric., 2:657-70
Physiology of the digestion in the carp.
II. Digestion of starch by the endo-
genous enzymes of the carp

F

Lindahl, E. & O. Svard (1957) 581682
Acta chem.scand., 11:846-53
Guanine metabolism in fish. I.
Occurrence of a guanine-deaminating
enzyme in fish skin

Properties of a guanine-deaminating
enzyme of Leuciscus rutilus skin were
studied.

:tl

F

Jančařík, A. (1957) 581685
Ann.Acad.tchecosl.Agric., 2:763-74
Physiology of the digestion in the carp.
III. Digestion of starch by enzymes from
the animal food of the carp

F

Waldschmidt-Leitz, E. & 581683
H. Gudernatsch (1958)
Hoppe-Seyl.Z., 309:266-75
The structure of protamines. V.
Relations between composition and
degree of maturity of clupein

The influence of maturity on the
chemical composition of clupein (I)
from Norwegian winter herring Clupea
harongus has been studied.

:tl

M

Iverson, E.S. & H.O. Yoshida (1957) 581686
Spec.sci.Rep.U.S.Fish Wildl.Serv., (203):
38 p.
Longline and troll fishing for tuna in
the central equatorial Pacific, January
1955 to February 1956

This report reviews the general results
of 9 combination longlining & trolling
cruises to the Line Islands between Jan.,
1955 & Feb., 1956. Discusses the effect
of depth of gear on catch rates, analyses
catch composition from each method &
discusses the evidence of yellowfin
abundance from this work.

GLK:glk

M

<p>Votintsev, K.K. (1958) 581687 <u>Zool.Zh.</u>, 37:287-90 O roli temperaturnogo faktora v formirovaniy planktonnykh kompleksov ozera Baikal (The function of temperature in the development of the plankton complex of the lake Baikal). En</p> <p>Arguments against data collected & conclusions drawn on the decisive function of temperature in the development & composition of plankton.</p> <p>FAO:go F</p>	<p>Gurvich, V.F. (1958) 581690 <u>Zool.Zh.</u>, 37:294-7 Novyi vid roda <u>Cyclops</u> O.F. Müll. (Crustacea Copepoda) iz ozera Kara-Kul (Pamir) (New species of the genus <u>Cyclops</u> O.F. Müll. (Crustacea Copepoda) found in lake Kara-Kul (Pamir)). En</p> <p><u>Cyclops pamirensis</u>, inhabiting lake Kara-Kul, related to, but slightly differing from species found in Tibetan lakes.</p> <p>FAO:go F</p>
<p>Koreneva, T.A. (1958) 581688 <u>Zool.Zh.</u>, 37:290-1 Kolovratka, parazitiruinshchaia v kladkakh Tendipedid (Rotifers, parasites of Tendipedidae roe). En</p> <p>Both adult rotifers & their eggs where found inside Tendipedidae egg clutches. Rotifers attack spawn deposited along the shore.</p> <p>FAO:go F</p>	<p>Hasimovich, A.A. (1958) 581691 <u>Zool.Zh.</u>, 37:312-3 O terminakh po zoologii pozvonochnykh v anglo-russkom selskokhoziaistvennom slovare (Regarding zoological terms, used for vertebrates, in the English-Russian Agriculture Dictionary)</p> <p>Criticism & indication of errors found in the dictionary by B.N. Usovsky, N.V. Gominova, T.A. Krasnselskaia, D.P. Kopeshinskaia, <u>Gos.Izd.Tekniko-Teoriti-cheskoi Literatuy</u>, Moscow, 1956.</p> <p>FAO:go</p>
<p>Savilov, A.I. (1958) 581689 <u>Zool.Zh.</u>, 37:291-4 Prisposoblenie Astsidii roda Chelyosoma k zhizni na ilistykh gruntakh (Adaptation of Ascidians of the genus Chelyosoma to the dwelling on silty ground). En</p> <p>Ascidians of the Okhotsk sea, found on silty ground adhere to the sea bed by a rhizoform, outgrowth, instead of the footlike excrescence by which they adhere to solid objects in their usual habitat. A new biotope thus develops enabling it to expand seaward.</p> <p>FAO:go M</p>	<p>Kuderskii, L.A. (1958) 581692 <u>Zool.Zh.</u>, 37:495-503 K voprosu o mnogoletnikh izmeneniiakh biologicheskikh svoistv bespozvonochnykh Belogo moria (Long-term alterations of biologic properties of White Sea invertebrates). En</p> <p>Arguments against data & his conclusions, stated by V.V. Kuznetsov in <u>Zool.Zh.</u>, 36(4) on degeneration of certain molluscs.</p> <p>FAO:go M</p>

Lemche, H. (1957) 581693

Nature, Lond., 179:413-6

A new living deep-sea mollusc of the Cambro-Devonian class Monoplacophora

Description of the new species Neopilina galathea from the west coast of Mexico.

GLK:hr

M

Svetovidov, A.N. (1958) 581696

Zool.Zh., 37:584-93

Vidovoi sostav semeistva Blenniidae Chernogo moria (Blenniidae of the Black Sea). En

Existence of spp. of this family confined exclusively to the Black Sea is doubtful. More careful study of the 2 presumed exceptions may lead to their identification with known Mediterranean spp.

FAO:go

M

Anonymous (1958) 581694

Zool.Zh., 37:511-7

Novyi nnye zhivushchii glubokovodnyi molliusk iz Kembriisko-Devonskogo klassa Monoplacophora (A new living deep-sea mollusc of the Cambro-Devonian class of Monoplacophora). En

Russian translation of 581693.

FAO:

M

Lotichevskii, M.A. (1958) 581697

Zool.Zh., 37:594-600

O sviazi izmenenii sozrevaniia polovykh produktov i zhirnosti u belorybitsy (Relation between fat contents in the flesh & sexual ripening of Stenodus leucichthys). En

Experiments carried out with reproducers kept in river-bed enclosures show that fat is consumed chiefly by movement & that fatness does not interfere with sexual ripening of fishes.

FAO:go

F

Beklemishev, V.N. (1958) 581695

Zool.Zh., 37:518-22

K voprosu o rannei evolutsii molluskov. Sravnitelno-anatomicheskoe znachenie i funktsionalno-morfologicheskoe tolkovanie organizatsii Neopilina galathea Lemche (Early evolution of molluscs. Organic structure of Neopilina galathea Lemche from the standpoint of comparative anatomy & functional morphology). En

Importance of the discovery for the study of mollusc evolution. Disagreement with some of Lemche's conclusions.

FAO:go

M

Iablokov, A.V. (1958) 581698

Zool.Zh., 37:601-11

K morfologii pishchevaritelnogo trakta zubatykh kitoobraznykh (Morphology of the digestive system of Odontoceti). En

Description of the entire alimentary system, structure & functions of teeth, tongue, throat, stomach of fish-eating whales, mainly the white whale.

FAO:go

M

<p>Akhmerov, A.Kh. & I.P. 581699 Martianova (1958) Zool.Zh., 37:619-21 K metodike opredeloniia slizistykh sporovikov roda <u>Chloromyxum</u>, Mingazzini, 1890 (Methods for identifying Myxosporidia of the genus <u>Chloromyxum</u> Mingazzini, 1890). En</p> <p>Brief description of methods used & possible improvements by way of fixing & colouring spores of <u>Chloromyxa</u>.</p> <p>FAO:go F</p>	<p>Pirozhnikov, P.L. (1958) 581702 Zool.Zh., 37:625-9 Ob arcale i ekologii kopopody <u>Senecella calanoides</u> Juday (Geographical range & ecology of <u>Senecella calanoides</u> Juday). In</p> <p>Description & relation to other spp. Value of this copepod & advisability of its transplantation.</p> <p>FAO:go MF</p>
<p>Palii, M.A. (1958) 581700 Zool.Zh., 37:622 Parazit shchuki <u>Philometra</u> (<u>Filaria</u>) <u>obturans</u> Prenant (<u>Philometra</u> (<u>Filaria</u>) <u>obturans</u> Prenant, a parasite attacking pikes). En</p> <p>Behaviour, effect & geographical distribution of the parasite.</p> <p>FAO:go F</p>	<p>Hedley, R.H. (1958) 581703 Nature, Lond., 181:1440-1 Mr. Arthur Earland</p> <p>Obituary of this marine zoologist, a specialist on foraminifera.</p> <p>GLK:sjh M</p>
<p>Bogoslovskii, A.S. (1958) 581701 Zool.Zh., 37:622-5 Dva novykh vida kolovratok - <u>Paradicranophorus verae</u>, sp. n. i <u>Lecane chankensis</u>, sp. n. (Two new species of rotifers - <u>Paradicranophorus verae</u>, sp. n. & <u>Lecane chankensis</u>, sp. n.). En</p> <p>Description of both spp., one found in the White Sea, the other in lake Khanka. Relation to known spp.</p> <p>FAO:go MF</p>	<p>Kawai, K. (1958) 581704 Nature, Lond., 181:1468 Cytochrome system in oyster tissues</p> <p>Describes experiments with <u>Crassostrea gigas</u>.</p> <p>GLK:wad M</p>

Ishihara, Y. & al. (1958) 581705
Nature, Lond., 181:1468-9
Structure of sperm and sei-whale
insulins and their breakdown by whale
pepsin

Contents as per title.

GLK:wad

M

Grundy, F. (1958) 581708
Mem.E.Afr.met.Dep., 2(11):11 p.
The use of cetyl alcohol in solution to
reduce evaporation from reservoirs -
Report on an experiment on Malya
reservoir in Tanganyika territory, in
August, 1957

Contents as per title.

F

Melnick, S.C. (1958) 581706
Nature, Lond., 181:1483
Occurrence of collagen in the phylum
mollusca

Describes methods & results of
experiments to determine the presence
of a collagen-type protein as indicated
by the occurrence of hydroxyproline in
Holix, Mytilus & Loligo.

GLK:wad

M

Young, F.N. (1958) 581709
Amer.Scient., 46:154A-6A
Zoogeography: the geographical
distribution of animals

Review of 570385.

TL:

MF

Howie, D.I.D. (1958) 581707
Nature, Lond., 181:1486-7
Dried organic substances as food for
larval annelids

Describes methods & results of
experiments to determine suitable foods
using liver, egg & nettle powder as well
as several marine unicells.

GLK:wad

M

Australia. Commonwealth Bureau 581710
of Census & Statistics (1957)
Canberra, (Bull. no. 50), 77 p.
Primary industries. II Non-rural
industries and value of production

Contains tables of fisheries (fish,
crustacea, molluscs) & whaling statistics
quantities & values by spp., imports &
exports, boats & equipment in use,
persons employed in these industries.

FAO:sjh

MF

Gooding, R.U. (1957) 581711
J.Mar.biol.Ass.U.K., 36:195-221
On some copepoda from Plymouth, mainly associated with invertebrates, including three new species

New genera & spp. Micropontius, Lichomolgus & Conchyliurus; also new Plymouth records. Notes on morphology, systematics & distribution bionomics.

GLK:sjh

M

Steele, J.H. (1957) 581714
J.Mar.biol.Ass.U.K., 36:233-41
A comparison of plant production estimates using ¹⁴C and phosphate data

Comparison of the study of the change of phosphate content of a water column & the C¹⁴ measurements for determination of basic organic production. Production data for Fladen Ground in 1955 & 1956 are given & filtering rates of zooplankton & sinking rates of phytoplankton are calculated.

GLK:tl

M

Burt, W.V. (1957) 581712
J.Mar.biol.Ass.U.K., 36:223-6
On the attenuation of light in the sea

Notes on the theoretical Mie scattering & discussion on the extinction coefficient in various mud suspensions, & in natural river waters in respect of the determination of the approximate grain size of the suspended matter.

GLK:tl

MF

Llewellyn, J. (1957) 581715
J.Mar.biol.Ass.U.K., 36:243-59
The larvae of some monogenetic trematode parasites of Plymouth fishes

11 new Oncomiracidia (new term for monogenetic larvae) described & classified. Techniques for rearing described.

GLK:sjh

MF

Steele, J.H. (1957) 581713
J.Mar.biol.Ass.U.K., 36:227-31
Notes on oxygen sampling on the Fladen Ground

Comparison of oxygen & phosphate data from Fladen Ground & redetermination of the factor for conversion of oxygen consumption to phosphate liberation.

GLK:tl

M

Nicol, J.A.C. (1957) 581716
J.Mar.biol.Ass.U.K., 36:261-9
Luminescence in polynoids. II. Different modes of response in the Elytra

Experimental electrical stimulation of Polynoë, Lagisca & Gattyana.

GLK:sjh

M

<p>Nicol, J.A.C. (1957) 581717 <u>J.Mar.biol.Ass.U.K.</u>, 36:271-3 Luminescence in polynoids. III. Propagation of excitation through the nerve cord</p> <p>Experiment with <u>Gattyana</u>.</p> <p>GLK:sjh M</p>	<p>Carlisle, D.B. (1957) 581720 <u>J.Mar.biol.Ass.U.K.</u>, 36:291-307 On the hormonal inhibition of moulting in decapod crustacea. II The terminal anecdysis in crabs</p> <p>Endocrinological assays in <u>Carcinus</u> <u>maenas</u> & <u>Maia squinado</u>. Notes on mortality and feeding.</p> <p>CLK:sjh M</p>
<p>Russell, F.S. (1957) 581718 <u>J.Mar.biol.Ass.U.K.</u>, 36:275-9 On a new species of scyphomedusa, <u>Atolla vanhoeffeni</u> n. sp.</p> <p>Description of distribution of <u>A.</u> <u>wyvillei</u>.</p> <p>GLK:sjh M</p>	<p>Dales, R.P. (1957) 581721 <u>J.Mar.biol.Ass.U.K.</u>, 36:309-16 Some quantitative aspects of feeding in sabellid and serpulid fan worms</p> <p>Rates of filtration studied for several spp. of differing sizes, using graphite suspensions & algal cultures. Comparisons with <u>Chaetopterus</u> & other invertebrates.</p> <p>GLK:sjh M</p>
<p>Gotto, R.V. (1957) 581719 <u>J.Mar.biol.Ass.U.K.</u>, 36:281-90 The biology of a commensal copepod, <u>Ascidicola rosea</u> Thorell, in the ascidian <u>Corella parallelogramma</u> Müller</p> <p>Study of feeding activities & reproductive behaviour.</p> <p>GLK:sjh M</p>	<p>Armstrong, F.A.J. (1957) 581722 <u>J.Mar.biol.Ass.U.K.</u>, 36:317-21 Phosphorus and silicon in sea water off Plymouth during 1955</p> <p>Temperatures & salinity, phosphate, total phosphorus & silicate analyses of water from the International Hydrographic Station I I during 1955 are discussed. The seasonal variation is shown & some irregularities are pointed out.</p> <p>GLK:tl M</p>

Southward, A.J. (1957) 581723
J.Mar.biol.Ass.U.K., 36:323-34
On the behaviour of barnacles. III.
Further observations on the influence
of temperature and age on cirral
activity

Experiments with spp. of Lepas,
Balanus, Hoxelasma from a wide range
of habitats.

GLK:sjh

M

Bagenal, T.B. (1957) 581726
J.Mar.biol.Ass.U.K., 36:377-82
Annual variations in fish fecundity

Data for Hippoglossoides platessoides
(Fabr.) compared with Simpson's (1951)
data for Plouronectes platessa L.

GLK:sjh

MF

Collyer, D.M. (1957) 581724
J.Mar.biol.Ass.U.K., 36:335-7
Viability and glycogen reserves in the
newly liberated larvae of Ostrea
edulis L.

Samples of 12 broods of oyster larvae
were subjected to a standard laboratory
rearing technique while other samples
were assayed for glycogen. No correl-
ation was observed between the glycogen
reserve and either the size of the
larvae at liberation or the yield of
spat in the rearing experiments.

GLK:sjh

M

Morton, J.E., A.D. Bonoy & 581727
E.D.S. Corner (1957)
J.Mar.biol.Ass.U.K., 36:383-405
The adaptations of Lasaca rubra Montagu,
a small intertidal lamellibranch

Ecologist study at Plymouth & Wembury,
& experiments on behaviour &
physiological relations to degree of
submersion.

GLK:sjh

MF

Bagenal, T.B. (1957) 581725
J.Mar.biol.Ass.U.K., 36:339-75
The breeding and fecundity of the long
rough dab Hippoglossoides platessoides
Fabr. and the associated cycle in
condition

Length-weight relation, age & size of
maturity, fecundity & its relation to
weight, age, length. Appendices give
the methods of the analysis used.

GLK:sjh

M

Powell, H.T. (1957) 581728
J.Mar.biol.Ass.U.K., 36:407-32
Studies in the genus Fucus L.
I. Fucus distichus L. emend. Powell

Taxonomic status & nomenclature of the
hermaphrodite forms of Fucus (other than
the alga currently known as F. spiralis
L. & certain hybrid forms) usually incl.
under the name Fucus inflatus L. by
European authors, is discussed. The
forms described are best interpreted as
forms of a single plastic & widely
distributed species.

GLK:sjh

M

Ross, D.M. (1957) 581729
J.exp.Biol., 34(1)
Quick and slow contractions in the
isolated sphincter of the sea anemone,
Calliactis parasitica

M

Bruun, A.F. & al. (Ed.) (1957) 581732
George Allen & Unwin, London, 296 p.
The GALATHEA deep sea expedition

M

Wells, M.J. & J. Wells (1957) 581730
J.exp.Biol., 34(1)
The function of the brain of Octopus
in tactile discrimination

M

Schaefer, M.B. (1957) 581733
Trans.N.Amer.Wildl.Conf., (22):472-84
Utilization and conservation of the tuna
resources of the eastern tropical
Pacific Ocean

Discussion, with contributions by Drs.
McHugh, Silliman & Gunter.

SJH:sjh

M

Smith, J.E. (1957) 581731
Phil.Trans., 240B:135-96
The nervous anatomy of the body
segments of neroid polychaetes

M

Gessner, F. (1957) 581734
Arch.Hydrobiol.(Plankt.), 53(1):1-22
Van Gölü. Zur Limnologie des grossen
Soda-Sees in Ostanatolien (Türkei)
(Van Gölü. On the limnology of the great
soda-lake in East Anatolia (Turkey)

Description of the morphology & geology
of the Van-Basin, depth, distribution of
temperature in the lake & its chemistry.
Plankton lists & notes on general
biological problems of soda-lakes.

TL:tl

F

Endean, R. (1957) 581735
Aust.J.Mar.Freshw.Res., 8:233-73
The biogeography of Queensland's shallow-water echinoderm fauna (excluding crinoidea), with a rearrangement of the faunistic provinces of tropical Australia

Contents as per title.

GLK:hr

M

Alm, G. (1957) 581738
Rep.Inst.Freshw.Res.Drottning, (38):5-69
Avkastningen av gädd- och abborrfisket vid Sveriges östersjökust under åren 1914-1955 (The yield of the pike and perch fisheries along the Baltic coasts of Sweden during the years 1914-1955). In

A study based on an examination of commercial catch statistics, the biology of the spp. (Usox lucius & Perca fluviatilis), & the methods of fish management with a view toward determining the size of the catch, its fluctuations, & the underlying causes.

GLK:wad

M

Laseron, C.F. (1957) 581736
Aust.J.Mar.Freshw.Res., 8:274-311
A new classification of the Australian marginellidae (mollusca), with a review of species from the Solanderian and Dampierian zoogeographical provinces

Divides the approximately 200 spp. into 33 genera, of which 31 are new & 2 have been recently named from Japan. Reviews all the known spp. from the Solanderian & Dampierian zoogeographical provinces.

GLK:hr

M

Lindroth, A. (1957) 581739
Rep.Inst.Freshw.Res.Drottning, (38):70-108
A study of the whitefish (Coregonus) of the Sundsvall Bay district

Presents the results of investigations, 1951-56, concerning the spp. (C. lavaretus & C. nasus) & their genetical nature, their movements based on tagging, spawning, & the biology of the eggs, & young stages of C. lavaretus.

GLK:wad

M

Stephenson, W. & J.J. Hudson (1957) 581737
Aust.J.Mar.Freshw.Res., 8:312-68
The Australian portunids (Crustacea; portunidae). I. The genus Thalamita

21 spp. are recorded from Australia, incl. 3 new spp. & 10 new records. These are described & illustrated, & a key is given for the known Indo-West Pacific spp.

GLK:hr

M

Lindroth, A. (1957) 581740
Rep.Inst.Freshw.Res.Drottning, (38):109-30
Baltic salmon fluctuations: a reply

Doing largely a discussion of a paper by Svärdsen, G. (1955) "Salmon stock fluctuations in the Baltic Sea", Rep.Inst.Freshw.Res.Drottning, (36):226-62, in which analysis are made of various theories concerning the abundance of Salmo salar. An addendum, pp. 128-9, contains a further reply to 581763.

GLK:wad

M

Lindström, T. (1957) 581741
Rep.Inst.Freshw.Res.Drottning, (38):131-52
Sur les planctons crustacés de la zone littorale (On the planktonic crustacea of the littoral zone). En

Discusses the abundance & distribution in both running & standing waters.

GLK:wad

F

Roos, T. (1957) 581744
Rep.Inst.Freshw.Res.Drottning, (38):167-93
Studies on upstream migration in adult stream-dwelling insects. I.

Describes methods & results of studies in northern Sweden of a mechanism presumed to ensure a balance & retention of a population in its habitat which would otherwise be depopulated through downstream drift.

GLK:wad

F

Nybrant, G. (1957) 581742
Rep.Inst.Freshw.Res.Drottning, (38):152
Remarks concerning the flow through Lake Håckren

A brief description of water exchange in a Swedish lake with 2 basins based on temperature records.

GLK:wad

F

Runnström, S. (1957) 581745
Rep.Inst.Freshw.Res.Drottning, (38):194-246

Migration, age, and growth of the brown trout (Salmo trutta L.) in lake Rensjön

Studies in northern Sweden based on trapped and marked fish & including a study of migration in the char, Salvelinus alpinus.

GLK:wad

F

Nilsson, N.-A. (1957) 581743
Rep.Inst.Freshw.Res.Drottning, (38):154-66
On the feeding habits of trout in a stream of northern Sweden

A study of stomach contents of Salmo trutta from Lake Rensjön & River Rensjöån & some comparisons with those of Lota lota.

GLK:wad

F

Svärdson, G. (1957) 581746
Rep.Inst.Freshw.Res.Drottning, (38):267-356

The coregonid problem. VI. The Palearctic species and their intergrades

Discusses the genus Coregonus & describes the following spp.: pidschian, nasus, lava-rotus, oxyrhynchus, pelod, albula & baunti; describes experiments on the phenotypical variation of whitefishes; presents whitefish & cisco populations of Sweden & Baltic coast; reviews whitefish populations of Europe outside Sweden.

GLK:hr

F

von Arx, W.S. (1957) 581747
In "Physics and chemistry of the earth",
Vol. 2, by Ahrens, L.H. & al. (Ed.), 1957,
Pergamon Press, London, :1-29
An experimental approach to problems in
physical oceanography

Description of experiments conducted with
models of small inshore areas, of inter-
mediate size areas, and of planetary
phenomena.

GLK:glk

M

Hill, M.N. (1957) 581750
In "Physics and chemistry of the earth",
Vol. 2, by Ahrens, L.H. & al. (Ed.), 1957,
Pergamon Press, London, :129-63
Recent geophysical exploration of the
ocean floor

Discusses gravity measurements at sea
during the period 1945-55, seismic
prospecting & heat-flow measurements at
sea, ocean structure & surface-wave
dispersion, volcanic islands & coral
atolls, & the structure of deep sea
trenches.

GLK:glk

M

Sanders, H.L. (1957) 581748
System.Zool., 6:112-28
The Cephalocarida and crustacean
phylogeny

In an effort to indicate crustacean
phylogeny, as well as to illustrate the
affinities of the Cephalocarida with the
extant subclasses of crustacea, compares
the paleozoic arthropods, particularly
the crustacea, with the crustacean sub-
class Cephalocarida, as exemplified by
Rutchinskiella.

HR:glk

M

Racok, A.A. (1957) 581751
Res.Bull.St.Fish., N.S.W., (3):19 p.
Penaeid prawn fisheries of Australia
with special reference to New South
Wales

Account of the history & problems of
penaeid prawn fisheries in N.S.W. &
Queensland of biological & ecological
investigations of newly discovered deep-
sea grounds, of marking experiments, &
of observations on spawning. A key of
the 17 commercially taken spp.

GLK:glk

M

Richards, F.A. (1957) 581749
In "Physics and chemistry of the earth",
Vol. 2, by Ahrens, L.H. & al. (Ed.) 1957,
Pergamon Press, London, :77-128
Some current aspects of chemical
oceanography

Tabulates & discusses major & minor
constituents; dissolved atmospheric
gases - conservative properties, & bio-
chemical relations in the ocean.

GLK:glk

M

Wiborg, K.F. (1957) 581752
Fiskeridir.Skr.Havundersøk., 11(8):24 p.
Factors influencing the size of the
year classes in the Arcto-Norwegian
tribe of cod

Occurrence of eggs & larvae during 1948-
56 has been studied quantitatively &
relation of their abundance with relative
strength of corresponding year classes
in commercial catches has been examined.
Changes in mortality in early life have
been sought. Relations of various factors
with survival of young have been
examined.

GLK:glk

M

Kusaka, T. (1957) 581753
Bull.Jap.Soc.sci.Fish., 23(1):1-5
(Experiments to see the different effects of net on driving, several species of fish). Ni En

Continuation of experiments described in Bull.Jap.Soc.sci.Fish., 22(11), 1957, (581754, 581755), using Cyprinus carpio, Carassius auratus, Oryzias latipes, Achoilognathus lanceolata, & Chaenogobius annularis urotactia, & varying the length of the tank.

SJH:sjh

F

Inoue, M. (1957) 581756
Bull.Jap.Soc.sci.Fish., 23(1):6-8
(The effect of wireless telephone on sardine purse seine fishery). Ni En

Treats catch statistics of the fleets in Chiba Prefecture & shows that Katagai & Ohara fleets doubled their fishing ability by using wireless telephone for exchanging fishing information among them.

SJH:sjh

M

Kusaka, T. (1957) 581754
Bull.Jap.Soc.sci.Fish., 22:662-7
(Two experiments to see the effect of mesh size of nets on driving a school of fish to a certain point). Ni En

Reports observations on locomotion of Carassius auratus in tanks in relation to moving vertical screens of white cotton thread with various spacings.

SJH:sjh

F

Inoue, M. (1957) 581757
Bull.Jap.Soc.sci.Fish., 23(1):9-11
(Study on fishing abilities of sardine beach seine on Kujukuri-hama). Ni En

Treatment of catch statistics shows correspondence of decreasing beach-seine catches with increasing purse-seine fishery since 1954, with respect to sardine & horse mackerel.

SJH:sjh

M

Kusaka, T. (1957) 581755
Bull.Jap.Soc.sci.Fish., 22:668-73
(Experiments to see the effect of colour on nets by the centralizing method and the driving to one side method). Ni En

Locomotion of Carassius auratus in tanks in relation to moving vertical screens of 5 vinyl tubes of different colours & transparencies. Results compared with previous experiments of relation of net efficiency to thread colour.

SJH:sjh

F

Tanaka, S. (1957) 581758
Bull.Jap.Soc.sci.Fish., 23(1):12-8
Relation between Baranov's mathematical model and sigmoid curve

Determination of population growth characteristics predicted by a simple analytical population model (derived from Baranov's) applied to data for Cleisthones herzonsteini, & comparison of steady-state & transitional states described by it with the properties of the Verhulst-Pearl logistic model as it has been applied to fish stock assessment problems.

SJH:sjh

MF

Takouchi, T. & al. (1957) 581759
Bull.Jap.Soc.sci.Fish., 23(1):19-23
(Bacteriological studies on the unusually
high mortality of Ostrea gigas in
Hiroshima Bay. III.) Ni En

Isolation of micro-organisms from the
dead oyster; histo-pathology of infected
survivals; mode of infection by mouth &
digestive tract.

SJH:sjh

M

Stjerna-Pooth, J. (1957) 581762
Rep.Inst.Freshw.Res.Drottning, (38):247-66
Achlya prolifera als Abwasserpilz in
einom mittelschwedischen Wasserlauf
(Achlya prolifera as a saprolognia
fungus in a brook in middle Sweden)

Description of lush growth of the fungus
in a polluted stream; ecological &
physiological investigations on the
reasons of the lush growth.

GLK:tl

F

Iitaka, Y. (1957) 581760
Bull.Jap.Soc.sci.Fish., 23(1):24-6
Study on the fishing capacities of purse
seines. II. On difference between single
and double purse seines operating in
Wakasa Bay

Statistical examination of catch records
of sardine, mackerel & horse-mackerel by
the kinds of seine shows little
difference between their performance.

SJH:sjh

M

Svärdson, G. (1957) 581763
Rep.Inst.Freshw.Res.Drottning, (38):357-84
Laxon och klimatet (Salmon and
climate). En

Discussion of the possible influence of
climate on various life phases of
Atlantic salmon, & the reasons of
variations in year-class strength.

GLK:tl

MF

Itazawa, Y. (1957) 581761
Bull.Jap.Soc.sci.Fish., 23(1):27-32
(Comparison of four different methods
for the determination of the dissolved
oxygen in the fish-culture-pond water).
Ni En

Experimental comparison of Winkler's
iodometric, Miller-Sibata's ferrous,
Winkler-Sugawara's CO₂, & Van Slyko's
manometric methods, & the effect on the
results of micro-phytoplankton absorbing
iodine in the case of the first, of
indistinctiveness of titration end-point
in the second, & of the water salinity.

SJH:sjh

MF

Wallin, O. (1957) 581764
Rep.Inst.Freshw.Res.Drottning, (38):385-44
On the growth structure and develop-
mental physiology of the scale of fishes

A very detailed study, based mainly on
the roach & containing an extensive
review of the literature.

GLK:wad

F

Sarig, S. (1957) 581765
Bamidgeh, 9:47-9,43-5
The importance of controlling coarse
vegetation in fish ponds. En Iw

Strates briefly the aspects in ponds in
reclaimed weedy marshes in Israel & the
past efforts at mechanical, chemical &
biological control of weeds.

SJH:tjj

F

Bliss, C.I. (1957) 581768
Amer.Scient., 45:449-66
Some principles of bioassay

Contains general principles that may be
useful in work with aquatic organisms.

TL:wad

MF

Lipshitz, N. (1957) 581766
Bamidgeh, 9:50-62, 46-62
The control of noxious weeds in fish
ponds. En Iw

Describes the components of vegetation
belts & their control with special
reference to the herbicides 2,4-D,
2,4-D esters, 2,4,5-T, sodium arsenite,
Dalapon & C.M.U.

SJH:tjj

F

Greig-Smith, P. (1957) 581769
Butterworths Scientific Publ., London,
198 p.
Quantitative plant ecology

A general text-book dealing with
quantitative description of vegetation,
sampling, comparisons, species associ-
ations, correlation with habitat factors.
Appendices discuss the interpretation of
meteorological data, the area of
distribution & spread of spp., & give
some useful statistical tables.

SJH:sjh

MF

Russell, R.J. (1957) 581767
Amer.Scient., 45:414-30
Instability of sea level

Review of the changes of sea level in the
past geological eras & theories for the
reasons of these changes.

TL:tl

M

Taylor, C.C., H.B. Bigelow & 581770
H.W. Graham (1957)
Fish.Bull., U.S., (115):293-343
Climatic trends and the distribution of
marine animals in New England

Relation indicated between: catches of
Scomber scomber & air temperature fluctu-
ations over 130 years; lobster menhaden
Merluccius bilinearis landings & inshore
water temperatures; Limanda ferruginea &
"trash" species. Evidence of major
ecological changes incl. new northern
limit records of southern spp. since 1930,
but no southward extensions; but no
obvious alterations of general faunal
characteristics.

SJH:sjh

M

Ananiadó, C.I. (1957) 581771
Proc.gen.Fish.Coun.Medit., (4):33-6
Lethal effects of chlordan on carps.
Fr

Describes the effect of chlordan on carps in rice fields & in experimental tanks. Comparison is made with D.D.T.

FiB:hr

F

Iyigüngör, D. (1957) 581774
Proc.gen.Fish.Coun.Medit., (4):63-8
La pêche aux crevettes en Turquie
(Shrimp fishing off the Turkish coasts).
En

Describes fishing localities, size & weight, gear, seasons, consumption, production & potentialities.

FiB:hr

M

Monteiro, R. (1957) 581772
Proc.gen.Fish.Coun.Medit., (4):37-42
Etudes sur la biologie de la famille des
triglidae (Study on the biology of
the triglidae). En

Gives metric & meristic characteristics based on catches of the oceanographic vessel PROF. LACAZE-DUTHILERS.

FiB:hr

M

Nümann, W. (1957) 581775
Proc.gen.Fish.Coun.Medit., (4):69-74
Les résultats des expériences de mar-
quage sur les pélamides et les maque-
reaux dans les eaux turques (Results
of marking experiments on short finned
tunas and mackerels in Turkish waters).
En

A study of migration, spawning areas & growth of short-finned tuna & mackerel.

FiB:hr

M

Oliver, M. (1957) 581773
Proc.gen.Fish.Coun.Medit., (4):51-62
Biologie de la sardine des Baléares (frais
alevinage et développement au cours de la
première année) (Biology of the
sardine of the Balearic Islands (spawn-
ing, hatching and growth during the first
year)). En

Contents as per title.

FiB:hr

M

Sommani, E. (1957) 581776
Proc.gen.Fish.Coun.Medit., (4):75-8
Introduction en Italie des boîtes d'ale-
vinage: application, limites et possibi-
lités du système (Introduction in
Italy of hatching boxes: application,
limits and possibilities of the system).
En

Hatching boxes have been used in Italy & good results were obtained particularly in the Alps. This system is less convenient in the Apennines because of the floods; it is not advisable in relatively high temperature streams (damage caused by larvae of insects) as well as in those where temperature is normally very low.

FiB:hr

F

Sommani, E. (1957) 581777
Proc.gen.Fish.Coun.Medit., (4):79-83
Considérations générales et particulières sur la mise en valeur des lacs de barrage (General and special considerations concerning the exploitation of barrage lakes). En

Most of the barrage lakes fall into 2 categories: quick ageing basins; slow ageing basins. Each category needs a different method of exploitation in order to obtain the best results. The possible management of small bodies of water used for irrigation is also considered.

FiB:hr

F

Larrañeta, M.G. (1957) 581780
Proc.gen.Fish.Coun.Medit., (4):109-12
Présence du parasite Poroderma cylindricum Heller sur la sardine de Castellón et d'Alicante (Presence of Poroderma cylindricum Heller parasite on sardines of the Castellón and Alicante coasts). En

Lives on the young specimens & causes a loss of weight & sometimes a total castration, but it does not appear to be a danger to productivity.

FiB:hr

M

Akyüz, E.F. & I. Artüz (1957) 581778
Proc.gen.Fish.Coun.Medit., (4):93-9
Some observations on the biology of tuna (Thunnus thynnus) caught in Turkish waters. Fr

Study of the sex maturity, length & weight of the Turkish tuna catches in 1955-56. The spawning season is considered to extend from late July to early September. Migration seems to be connected with the temperature & the migration of other pelagic species.

FiB:hr

M

Lozano Cabo, F. (1957) 581781
Proc.gen.Fish.Coun.Medit., (4):113-7
Notes sur la biologie et la pêche des thons (Notes on the biology and fishing of tuna). En

The number of tuna coming each year from the Atlantic coast of Spanish Morocco is nearly constant (12,000 or 13,000 tunas), with a maximum & minimum each eight years. The main invasion takes place apparently when the maturity index is between 40-60.

FiB:hr

M

Larrañeta, M.G. & J. López (1957) 581779
Proc.gen.Fish.Coun.Medit., (4):101-8
La croissance de la sardine (Sardina pilchardus Walb.) de la côte de Castellón (The growth of the Castellón coast sardine (Sardina pilchardus Walb.)). En

Determination of the relations between the length of the fish & the length of the scales. The maximum size limit is estimated at 197 mm. The relation of size-weight is given for whole & eviscerated fish, & evidence is given of the different growth rate for the Castellón & Alicante sardines.

FiB:hr

M

Domir, M. (1957) 581782
Proc.gen.Fish.Coun.Medit., (4):127-33
Migrations of Sarda sarda Bloch in the Black, Marmara, and Aegean seas; the probable spawning places and time. Fr

The species spend the summer in the Black Sea, and the winter in the Sea of Marmara & the Aegean Sea where they reproduce.

FiB:hr

M

Domir, M. & N. Arim (1957) 581783
Proc.gen.Fish.Coun.Medit., (4):135-9
Contribution to the biology of the
mackerel (Scomber scomber L.). Fr

Deals with the spawning period, places & depths of ripening & discharge of eggs & some other related problems about the eggs & larvae of the mackerel of the Sea of Marmara & of the Black Sea.

FiB:hr

M

Nalbandoglu, U. (1957) 581786
Proc.gen.Fish.Coun.Medit., (4):181-92
Contents of the stomachs of mackerel (Scomber scomber L.) caught in the Marmara, the Bosphorus & in the areas of the Black Sea bordering the Bosphorus. Fr

Mackerel do not select certain specific foods, but eat whatever they find in their surroundings. Both in the Bosphorus & in the Marmara the fish keep to the waters coming from the Mediterranean & are only able to tolerate the intermediate level when rising to search for food.

FiB:hr

M

Domir, M., A. Acara & N. Arim (1957) 581784
Proc.gen.Fish.Coun.Medit., (4):141-3
About the sword-fish (Xiphias gladius L.). Fr

Deals with the fishing regions, spawning area in the Sea of Marmara, methods of fishing by harpoon & the reason for the special behaviour of the sp. during the fishing period in May.

FiB:hr

M

Acara, A. (1957) 581787
Proc.gen.Fish.Coun.Medit., (4):193-6
Relation between the migration of Sarda sarda Bloch and prevailing temperature. Fr

The relation between the water temperature & the migration of the Sarda sarda while they are in the Bosphorus & Dardanelles has been studied. Also the influence of sea temperature on catches has been shown.

FiB:hr

M

Tuğgaç, M. (1957) 581785
Proc.gen.Fish.Coun.Medit., (4):145-59
On the biology of the Scomber colias Gmelin. Fr

A study of length, growth & age, sexual maturity, state of gonads & eggs, body weight & stomach contents of the sp. in Turkish waters.

FiB:hr

M

Vives, F. & P. Suau (1957) 581788
Proc.gen.Fish.Coun.Medit., (4):197-206
Sur la régénération des fonds de pêche du Levant espagnol (On the restocking of fishing grounds off the east coast of Spain). En

Description of the dragging nets used in the inshore waters of the east coast of Spain, & of experiments made with cod ends of various mesh-size in relation to size of fish caught. Consideration on spawning period & fishing of fingerlings & description of a method to permit the restocking of the fishing grounds.

FiB:hr

M

Vivier, P. (1957) 581789
Proc.gen.Fish.Coun.Medit., (4):207-17
Importance des tests biologiques dans la
protection des rivières contre la pollu-
tion (Importance of biological tests
for the protection of rivers against
pollution). En

Description of the biological test used
in laboratories & on the spot, to study
the action of poison on the aquatic fauna
& flora.

FiB:hr

F

Bas, C. (1957) 581792
Proc.gen.Fish.Coun.Medit., (4):235-41
La géographie du fond et l'état actuel
de la pêche des espèces d'intérêt
industriel (Geography of the sea
bottom and situation of the species of
commercial importance). En

Description of the relations between the
characteristics of the bottom & the fish
spp. found off the coast of Catalonia.

FiB:hr

M

Gamulin, T. & J. Karlovac (1957) 581790
Proc.gen.Fish.Coun.Medit., (4):219-26
Données récentes concernant la densité
des oeufs de sardine (Sardina pilchardus
Walb.) sur une frayère de l'Adriatique
moyenne (Recent data concerning the
distribution of sardine (Sardina pilchar-
dus Walb.) eggs on a spawning ground of
the central Adriatic). En

Great quantities of catches, made
vertically, have made it possible to
determine the number of eggs by square
meter during the entire spawning season.

FiB:hr

M

Karlovac, O. (1957) 581793
Proc.gen.Fish.Coun.Medit., (4):243-50
Extensive investigations of captures by
otter-trawl in the Adriatic off shore
waters. Fr

A report is made of catches of fish &
edible invertebrates taken by trawling
with otter-trawl at 137 stations in the
Adriatic. The taxonomic composition of
the catches by weight & numbers is given.

FiB:hr

M

Vučetić, T. (1957) 581791
Proc.gen.Fish.Coun.Medit., (4):227-33
Quelques observations sur l'écologie de
la ponte de l'anchois (Engraulis encrasi-
cholus L.) dans les lacs de l'île de
Mljet (Some observations on the
ecology of the spawning of anchovy (En-
graulis encrasicholus L.) in the lakes of
Mljet Island). En

Contains data on: spawning season,
vertical distribution of the eggs & the
layers in which the spawning takes place,
time of expelling of the eggs as well as
the duration of the embryonic development
according to temperature.

FiB:hr

M

Iyigüngör, D. (1957) 581794
Proc.gen.Fish.Coun.Medit., (4):251-5
Méthodes et moyens de pêche au thon
actuellement en usage en Turquie
(Methods and gear at present in use for
tuna fishing in Turkey). En

Tunas are caught with traps & hooks &
lines. Each of these methods is
extensively described.

FiB:hr

M

Merlo, S. (1957) 581795
Proc.gen.Fish.Coun.Medit., (4):257-67
La pêche et le repouplement des salmoni-
dés dans le lac de Garda (Fisheries
and restocking of the lake of Garda with
salmonid species). In

Description of the main biological
characteristics of salmonids in the lake
of Garda & various fishing methods
employed. The catches & the measures
taken for the restocking of the lake are
studied in special chapters of the
report.

FiB:hr

MF

Perlmutter, A., L. Bograd & 581798
J. Pruginin (1957)
Proc.gen.Fish.Coun.Medit., (4):289-303
Use of the estuarine & sea fish of the
family Mugilidae (Grey mullets) for
pond culture in Israel. Fr

Experiments show that Mugil cephalus is
the most suitable for introduction into
carp ponds. A key for the identification
of these small mullets & notes on their
habitats & seasonal availability is
included.

FiB:hr

MF

Ben-Yami, M. (1957) 581796
Proc.gen.Fish.Coun.Medit., (4):269-80
Preliminary report on experimental
fishing with an improved type of trawl-
net. Fr

A new type of trawl-net incorporating the
best features of the Italian & Atlantic
type trawls has been developed. This net
proved more efficient than the Italian
net in actual comparative fishing.

FiB:hr

M

Akyüz, E.F. (1957) 581799
Proc.gen.Fish.Coun.Medit., (4):305-26
Observations on the Iskenderun red
mullet (Mullus barbatus) and its
environment. Fr

Investigations have been carried on in
the Gulf of Iskenderun to study the
hydrography of that zone & to collect
biometrical data for the demersal species.
Special attention was given to red
mullet.

FiB:hr

M

Gottlieb, E. & O.H. Oren (1957) 581797
Proc.gen.Fish.Coun.Medit., (4):281-7
Savings gear experiments with trawl nets
in Israel waters. Fr

Experiments undertaken to determine the
size of mesh of cod-end that would
release under-sized fish, resulted in
that a mesh size of 54 mm. was
recommended for use in the fishery.

FiB:hr

M

Matta, F. (1957) 581800
Proc.gen.Fish.Coun.Medit., (4):327-33
Sur la biométrie de la sardine (Sardina
pilchardus Walb.) de la mer Tyrrhénienne
(Biometry of the sardine (Sardina pil-
chardus Walb.) of the Tyrrhonian sea).

The following somatic proportions:
lateral length of the head, pre-dorsal
length, pre-ventral length, pre-anal
length do not indicate differences worth
mentioning when compared with the
variations in the total length of the
fish or when analyzed in connection with
the sexual state.

FiB:hr

M

<p>Komarovsky, B. & L. Schwartz (1957) 581801 <u>Proc.gen.Fish.Coun.Medit.</u>, (4):347-61 A study of marine antifouling paints in Israel. Fr</p> <p>Raft tests were carried out in the Haifa Harbour area on the effectiveness of antifouling paints containing graded amounts of cuprous oxide at various pigment volumes; the seasonal sequence & relative abundance of the main fouling groups are described.</p> <p>FiB:hr M</p>	<p>Bon-Tuvia, A. (1957) 581804 <u>Proc.gen.Fish.Coun.Medit.</u>, (4):383-91 Pelagic fisheries in Israel. Fr</p> <p><u>Sardinella aurita</u> is commercially the most important pelagic sp. There are evidences of an existence of a distinct local population along the Palestinian coast. Other pelagic spp. & their method of fishing are briefly surveyed.</p> <p>FiB:hr M</p>
<p>Fried, Z. (1957) 581802 <u>Proc.gen.Fish.Coun.Medit.</u>, (4):363-9 Underwater study of the Italian type trawl gear. Fr</p> <p>An underwater study of the Italian trawl, with the aid of aqua-lungs, was made with emphasis on the net itself. Fishing height & spread were measured, & general behaviour of the trawl in action was observed directly & photographed.</p> <p>FiB:hr M</p>	<p>Santos Pinto, J. dos & B. Andreu (1957) 581805 <u>Proc.gen.Fish.Coun.Medit.</u>, (4):393-411 Echelle pour la caractérisation des phases évolutives de l'ovaire de sardine (<u>Sardina pilchardus</u> Walb.) en rapport avec l'histophysiologie de la gonade (Scale for the determination of evolutive phases of sardine (<u>Sardina pilchardus</u> Walb.) ovaries in connection with the histophysiology of the gonad). En</p> <p>The existence of 3 clearly individualized stocks of ovocytes makes it possible for the sardine to spawn more than once during a season, & as a result, the international herring scale cannot be applied.</p>
<p>Svotina, M. (1957) 581803 <u>Proc.gen.Fish.Coun.Medit.</u>, (4):377-81 L'ombre et sa reproduction artificielle (The grayling and its artificial spawning). En</p> <p>After having dealt with the biology of the grayling (<u>Thymallus vulgaris</u> Nils.) & considered the importance of that fish, the author describes the technique applied for artificial spawning.</p> <p>FiB:hr F</p>	<p>581805 (Card 2) The authors propose a new scale of 6 phases applying to the sardine.</p> <p>FiB:hr M</p>

Catió, Dj. (1957) 581807
Proc.gen.Fish.Coun.Medit., (4):421-6
Les vitamines et l'alimentation de la
truite commune et de la truite arc-en-
ciel (The vitamins and food of the
common trout and of the rainbow trout).
En

The addition of plankton to the basic
food of the young common & rainbow trouts
has given excellent results, while the
products containing vitamins seem to be
only of secondary importance. However,
dried yeast (Vitamin B) has a favourable
action & can be used when the quantity
of plankton is not sufficient.

FiB:hr

MF

Wüst, G. (1957) 581810
Kieler Meeresforsch., 13(2):163-85
Ergebnisse eines hydrographisch-produk-
tionsbiologischen Längsschnitts durch die
Ostsee im Sommer 1956. I. Die Verteilung
von Temperatur, Salzgehalt und Dichte
(Results of hydrographical production-
biological section through the Baltic Sea
in the summer 1956. I. Distribution of
temperature, salinity & density). En

Tabulated & geographical data with
analysis & with special emphasis on the
micro-stratification.

TL:tl

MF

Krotov, A.V. (1957) 581808
Proc.gen.Fish.Coun.Medit., (4):427-30
Les recherches soviétiques sur la biologie
des principaux poissons de la mer Noire
(Soviet research on the biology of the
main fish species in the Black Sea).
En

After having stressed the attention
devoted by the USSR to the study of the
biology the Black Sea species & mentioned
the various fields in which research has
been undertaken, the author summarizes
the conclusions reached concerning
anchovy, horse-mackerel, bonito &
mackerel.

FiB:hr

M

Banse, K. (1957) 581811
Kieler Meeresforsch., 13(2) 186-201
Ergebnisse eines hydrographisch-
produktionsbiologischen Längsschnittes
durch die Ostsee im Sommer 1956. II. Die
Verteilung von Sauerstoff, Phosphat und
suspendierter Substanz (Results of
hydrographical production biological
section through the Baltic Sea in the
summer 1956. II. Distribution of oxygen,
phosphate and suspended matter). En

Tabulated & graphical data with analysis
(incl. data on chlorophyll, albumin &
total seston).

TL:tl

MF

Ahlstrom, E.H. & D. Kramor (1957) 581809
Spec.sci.Rep.U.S.Fish.Wildl.Serv., (224):
90 p.
Sardine eggs and larvae and other fish
larvae, Pacific coast, 1955

Quantitative sampling off the coasts of
California & Baja California at stations
usually occupied at monthly intervals,
for Sardinops caerulea, Engraulis mordax,
Trachurus symmetricus, Pneumatophorus
ditogo, Morluccius productus & Sebastes
spp.

GLK:glk

M

Logand, M. (1957) 581812
Rapp.sci.Sect.Océanogr.franc.Océanie, (2):
31 p.
Variations quantitatives du zooplancton
récolté par l'ORSOM III pendant la
croisière 56-4 (EQUAPAC) (Quantitative
variations of zooplankton collected by
ORSOM III during the cruise EQUAPAC).
En

Description of relations between the
amounts of zooplankton & various physical-
chemical environmental factors & correla-
tions with C₁₄ fixation, & the occurrence
of pelagic fish. (Profiles taken 1°N -
17°S & 170°E - 177°E).

TL:tl

M

Chaine, J. (1957) : 581813
Bull. Cent. Etud. Rech. sci., Biarritz, 1:
463-557

Recherches sur les otolithes des poissons.
Etude descriptive et comparative de la
sagitta des Teleostéens (7e partie, 4e
fascicule) (Study of otoliths of
fish. Descriptive and comparative study
of the sagitta of Teleosteans (7th part,
4th fascicule))

Gives size of otolith & fish,
description & variations of otoliths of
spp. of the families Trachinidae, Urona-
scopidae, Scombridae, Carangidae,
Acronuridae & Pomatomidae.

FiB:hr M

Bourrolly, P. (1957) 581816
Bull. Cent. Etud. Rech. sci., Biarritz, 1:
589-91

Une nouvelle espèce de Cyanophycée
d'eau douce du genre Desmosiphon (A
new fresh water species of Cyanophyceae
of the genus Desmosiphon)

A note on Desmosiphon vivieri.

FiB:hr F

Moussset, G. (1957) : 581814
Bull. Cent. Etud. Rech. sci., Biarritz, 1:
559-61

Sur la maturation sexuelle du Congre
(On the sexual maturity of Conger eel)

Induction of maturation of Conger
vulgaris in aquarium by injection of
urine & hormones.

FiB:hr M

Bourrolly, P. (1957) 581817
Bull. Cent. Etud. Rech. sci., Biarritz, 1:
595-600

Un genre de Rhodophycée d'eau douce
nouveau pour la France, Kyliniella,
récolté dans les environs de Biarritz
(Kyliniella, a new genus of fresh water
Rhodophyceae for France, collected in the
surroundings of Biarritz)

A descriptive note on Kyliniella latvica.

FiB:hr F

Dubedout, C. (1957) 581815
Bull. Cent. Etud. Rech. sci., Biarritz, 1:
563-5

Adaptation en aquarium des animaux marins
au moyen d'un bac submersible
(Adaptation in aquarium of marine animals
by means of a submerged jar)

Results of experiments made with finger-
lings of Atherina presbyter.

FiB:hr M

Lobouché, A.-M. (1957) 581818
Bull. Cent. Etud. Rech. sci., Biarritz, 1:
601-35

Etude des glucosides de Caulacanthus
ustulatus (Mert.) Kütz (A study of
glucosides of Caulacanthus ustulatus
(Mert.) Kütz)

A study of anatomical, morphological &
ecological characteristics of the sp.
followed by a biochemical investigation
& comparison with other Florideae.

FiB:hr M

<p>Khartoum, University. 581819 Hydrobiological Research Unit (1957) The Middle East Press, Khartoum, 32 p. Fourth annual report of the Hydro- biological Research Unit</p> <p>Staff members, facilities & equipment, note on activities & survey of work in progress. Comprises papers by Talling, Rzoska, Gay & Nawar (581820, 581821, 581822, 581823, 581824 & 581825). List of papers published during the period covered by the report, notes on sponges, on fauna of umbels of aquatic plants, & on Desmids of lake Ambadi.</p> <p>GLK:sjh F</p>	<p>Gay, P.A. (1957) 581822 <u>Rep.hydrobiol.Res.Unit, Sudan, (4):10-20</u> Survey of work in progress - Some aspects of the riverain flora of the White Nile and the Bahr ol Ghazal</p> <p>Report on observations made during expedition December 1956. <u>Papyrus</u> distribution; sedimentation.</p> <p>GLK:sjh F</p>
<p>Talling, J.F. (1957) 581820 <u>Rep.hydrobiol.Res.Unit, Sudan, (4):6-8</u> Survey of work in progress - Some physical, chemical & algological aspects of Nile hydrobiology: a retrospect</p> <p>Brief review of work, indicating unsolved problems.</p> <p>GLK:sjh F</p>	<p>Rzoska, J. (1957) 581823 <u>Rep.hydrobiol.Res.Unit, Sudan, (4):20-4</u> Survey of work in progress - Zooplankton studies</p> <p>New crustaceans found in the Nile; sexuality & population structure of <u>Daphnia</u> & <u>Cyclops</u> spp., fish fry occurrences.</p> <p>GLK:sjh F</p>
<p>Rzoska, J. (1957) 581821 <u>Rep.hydrobiol.Res.Unit, Sudan, (4):8-10</u> Survey of work in progress - Conductivity of Nile waters</p> <p>Table of observations obtained, December, 1956.</p> <p>GLK:sjh F</p>	<p>Nawar, G. (1957) 581824 <u>Rep.hydrobiol.Res.Unit, Sudan, (4):24-7</u> Survey of work in progress - Preliminary investigations on brooding times of some Nile fishes</p> <p>Occurrence of larvae of spp. of <u>Mormyrus</u> <u>Labco</u>, <u>Barbus</u>, <u>Auchenoglanis</u>, <u>Utropius</u>, <u>Hydrocyon</u>, <u>Tilapia</u>, <u>Alostes</u>, <u>Chlaethiops</u> & other genera.</p> <p>GLK:sjh F</p>

Rzoska, J. (1957) 581825
Rep. hydrobiol. Res. Unit, Sudan, (4):28-30
Survey of work in progress - Observations
on tropical temporary waters

Short summary of knowledge regarding
physico-chemical condition of pools near
Khartoum, & their planktonic crustacean
communities (Anostraca, Metacyclops,
Conchostraca, Triops & Moina).

GLK:sjh

F

Rovollo, R. & M.B. 581828
Schaefer (1957)
Publ. nat. Res. Coun., Washington, D.C.,
(551):1-25

General considerations concerning the
ocean as a receptacle for artificially
radioactive materials

Summary of the nature of the ocean &
marine resources; potential hazards from
radioactive materials; chemical
processes & the behaviour of radio-
active materials in the sea, & the
physical & biological processes affect-
ing the distribution of radioactive
materials in the sea; short account of
major insolved problems is also added.
SJH:tl M

Hallgrímsson, I. (1957) 581826
Náttúrufræðingnum, 27:173-85
Dýrasvifid í sjónum (Zooplankton in
Icelandic waters). En

Outline of the main features of the zoo-
plankton in Icelandic waters. The drift
of the zooplankton from Icelandic waters
westwards to Greenland is discussed, &
Danish investigations on the drift of
the cod larvae from Icelandic waters are
mentioned. A short account on the life
history of Calanus finmarchicus is given.

FiB:tl

M

Brett, J.R. (1957) 581829
Bull. Fish. Res. Bd Can., (114):26 p.
Salmon research and hydroelectric power
development

Outlines factors affecting migrating
fish with examples from British Columbia
& elsewhere in the Pacific Northwest &
discusses research principles under: 1)
energy dissipation, 2) stress &
activity, 3) hormonal state, 4) behaviour
& sensory perception, & 5) interaction
of these, & the Boards' researches -
past & prospective.

GLK:tjj

MF

Schaefer, M.B. (1957) 581827
Publ. nat. Res. Coun., Washington, D.C.,
(551):133-7
Large-scale biological experiments using
radioactive tracers

Notes on the uptake & transport of radio-
active isotopes by plants & animals
observed in connection with weapon tests
& waste disposal. Plans for future
experiments are also indicated.

SJH:tl

M

Hartman, W.D. (1957) 581830
Evolution, 11:294-7
Ecological niche differentiation in the
boring sponges (Clionidae)

Considers the vertical ranges & relative
abundance of 9 sympatric spp. of boring
sponges (Cliona colata, C. vastifica,
C. schmidti, C. albicans, C. viridis,
C. vermifera, C. rovigonsis, Cliothosa
hancocki, & Thoosa mollis) of the
Adriatic sea & the determining causes
of their distribution.

GLK:hr

M

Waldichuk, M. (1957) 581831
Progr. Rep. Pacif. Cst. Stas, (108):3-6
Oceanography of the Strait of Georgia.
VII. Water masses

Characterization of different water masses by T-S relation in the Strait & some discussions on seasonal changes of the T-S characteristics and mixing.

GLK:tl

M

Tabata, S. (1957) 581834
Progr. Rep. Pacif. Cst. Stas, (108):18-20
Heat exchange between sea and atmosphere along the northern British Columbia coast

Notes on the components of the heat budget equation & graphical presentation of annual cycle of heat transfer across air-sea boundary.

GLK:tl

M

Horlineaux, R.H. (1957) 581832
Progr. Rep. Pacif. Cst. Stas, (108):7-9
On tidal currents and properties of the sea water along the British Columbia coast

Relations between daily tidal speeds, surface salinity & temperature, & discussion on the possibilities for prediction of minimum & maximum surface temperatures & salinities on the basis of the tidal current tables.

GLK:tl

M

Aldordico, D.F. & J.R. 581835
Brett (1957)
Progr. Rep. Pacif. Cst. Stas, (108):27-9
Toxicity of sodium arsenite to young chum salmon

A note on tolerance tests with Onchorhynchus keta, as part of examination of possibility of using this chemical to control teredo (Bankia sp.) in logs being transported by sea.

GLK:tsjh

MF

Barbor, F.G. (1957) 581833
Progr. Rep. Pacif. Cst. Stas, (108):15-8
Observations of currents north of Triangle Island, B.C.

Preliminary results of the continuous measurement of tidal currents on the continental shelf off Vancouver Island & calculation of residual currents in various depths (0 - 40 m).

GLK:tl

M

Terada, K. & M. Hanzawa (1957) 581836
Geophys. Mag., Tokyo, 28(1):117-33
Recent works in relation to the activities of the Marine Division of the Japan Meteorological Agency

Recent developments in maritime meteorology; brief history of the weather ship observations; routine oceanographic observations & the oceanographic research activities; long range forecasting of ocean temperatures & oceanographic research of Ariako Bay.

FiB:tl

M

Moorman, R.B. (1957) 581837
Iowa St. Coll. J. Sci., 32(1):71-88
Reproduction and growth of fishes in
Marion County, Iowa, farm ponds

Growth & condition of Micropterus
salmoides, Lepomis macrochirus, Ameiurus
melas & Pomoxis annularis.

SJH:sjh

F

Pérès, J.M. (1957) 581840
Rec. Trav. Sta. marit. Endoume, (22):23-54
Essai de classement des communautés
benthiques marines du globe (Essay
of classification of marine benthonic
communities of the world)

Definition of the following stages:
supralittoral, mesolittoral, infralittoral,
circalittoral & epibathyal.

GLK:hr

M

Alm, G. (1957) 581838
Sveriges Natur, 2:53-6
Tusenbröder (Fish stocks with
exceptionally small growth of specimens)

Discussions on the reasons of small
growth of some fresh water fish (especial-
ly perch) in overpopulated waters &
suggestions for improvement of these
small-grown stocks.

TL:tl

F

Anonymous (1958) 581841
New Scient., 4:115
Streamlining the tides at the pier

A note on the design of harbour pier
heads to reduce scouring action.

FAO:sjh

M

Pérès, J.M. & R. Molinier (1957) 581839
Rec. Trav. Sta. marit. Endoume, (22):5-15
Colloque tenu par le Comité du Benthos
(Gênes 10-11 Juin 1957) - Compto-rondu
des séances (Colloquium by the Benthos
Committee (10-11 June 1957) -
Report of the meetings)

A discussion of the nomenclature &
terminology of benthos zonation.

GLK:hr

M

Jackson, C.J. (1958) 581842
New Scient., 4:150-2
Water supply and demand

A short review of water use policies
& problems.

FAO:sjh

F

A.F.	581372	581615	Bas, C.	581792
A & M College of Texas, Dept. of Oceanography & Meteorology	581306		Battaglia, B.	581675
Abbott, D.P.	581494		Bauer, O.	581314
Abidin, G., K. Kaisi & F. Naib	581307		Bauer, O.N. & V.M. Ivasik	581632
Acara, A.	581784	581787	Baxter, G.C.	581234
Adlung, K.G.	581661		Bekker, V.E.	581335
Agnedal, P.-O.	581361		Beklemishev, V.N.	581695
Ahl, E.	581359		Beneo, E. & R. Cassinis	581262
Ahlstrom, E.H. & D. Kramer	581809		Ben-Tuvia, A.	581804
Aibulatov, N.A.	581340		Ben-Yami, M.	581796
Aiello, E.	581522		Berner, L.	581324
Akhmerov, A.Kh. & I.P. Martianova	581699		Bortelsen, E.	581367 581625
Akyüz, E.F.	581799		Berthois, L.	581211
Akyüz, E.F. & I. Artüz	581778		Borzins, B.	581362
Aldaba, P.B.	581656		Beverton, R.J.H. & J.A. Gulland	581380
Alderdice, D.F. & J.R. Brett	581835		Beverton, R.J.H. & S.J. Holt	581530
Aleev, Iu.G.	581643		Bhuiyan, A.L.	581292
Allen, F.H.	581271		Bidlingmayer, W.L.	581316
Alm, G.	581738	581838	Bigelow, H.B.	581770
Alvarino, A.	581406		Biricenmater, K.	581263
American Geological Institute	581591		Birkett, L.	581240
Amlacher, E.	581598		Birnbø, K.E.	581621 581622
Ananiadés, C.I.	581771		Black, V.S.	581470
Ancellin, J.	581209		Bliss, C.I.	581768
Andreu, B.	581805		Blunt, M.X.	581517
Arakawa, H.	581261		Böhnecke, G.	581532
Arim, N.	581783	581784	Bogorov, B.G.	581577
Armstrong, F.A.J.	581722		Bogorov, V.G. & al.	581428
Arrecgros, J.	581486		Bogoslovskii, A.S.	581701
Artüz, I.	581778		Bograd, L.	581798
Atlantic States Marine Fisheries Commission	581439		Boldyr, E.D. & G.K. Petrushevskii	581645
Auerbach, M.	581510		Bolster, G.C.	581243
Aurich, H.J.	581413		Boney, A.D.	581727
Australia, Commonwealth Bureau of Census & Statistics	581710		Bookhout, C.G.	581489
Bagenal, T.B.	581725	581726	Borisova, I.G.	581665
Bahr, K.	581203		Bossanyi, J.	581446
Bahr, Kl.	581607		Bourelly, P.	581816 581817
Baird, R.H.	581186	581246	Boury, M.	581233 581458
Bal, D.V. & K.H. Mohmed	581291		Bowman, T.L.	581330
Balabanova, Z.M.	581217		Brandon, A.M.	581678
Balley, M.	581212		Breitenstein, W.	581505
Banner, A.H.	581327		Brett, J.R.	581829 581835
Banse, K.	581811		Brodie, J.W. & T. Hatherton	581191
Barber, F.G.	581833		Brown, M.L.	581475
Barber, N.F.	581484		Brujewicz, S.W.	581578
Barker, F.B.	581670		Bruun, A.F.	581561
Barker, F.B. & L.L. Thatcher	581669		Bruun, A.F. & al.	581732
Barnard, J.L.	581325		Buchanan, J.B.	581185
Barnoud, R.	581678		Buchanan-Wollaston, H.J.	581235
Barrett, J.H. & C.M. Yonge	581485		Budanov, V.I. & al.	581342
Barrington, E.J.W.	581469		Bückmann, A.	581290
Bary, B.M.	581328		Bulanadi, J. & P.B. Aldaba	581656
Bary, B.M. & al.	581460		Buljan, M.	581319 581320
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			Burt, W.V.	581195 581712
			Bylinskii, E.N.	581432

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Canada, Dominion Bureau of Statistics	581334	Dyk, V.	581354
Capstick, C.K.	581443	E.B.	581654
Carlisle, D.B.	581720	East Africa High Commission	581499
Carr, A.P.	581418	El-Gedawi, I.	581440
Carsola, A.J.	581189	Emery, F.V.	581426
Carter, G.S.	581466	Emery, K.O.	581268
Cassinis, R.	581262	Endean, R.	581735
Čatić, Dj.	581807	Engle, R.L., Jr. & K.R. Woods	581529
Chaine, J.	581813	Ercegović, A.	581321
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Collyer, D.M.	581724	Fine, J. & A. Drilhon	581456
Colton, J.B., Jr.	581407 581408	Fine, J.M.	581666
Cordier, D., R. Barnoud & A.M. Brandon	581678	Fischer, O.	581610
Cordone, A.J.	581201	Fisher, R.L.	581649
Corlett, J.	581409	Fisher, R.L., A.J. Carsola & G. Shumway	581189
Corner, E.D.S.	581727	Fjeldstad, J.E.	581231
Costlow, J.D., Jr & C.G. Bookhout	581489	Fleming, A.M.	581414
Cotton, C.A.	581420	Flemming, H.	581313
Crowell, S. & C. Wyttenbach	581490	Follman, G.	581677
Curl, H., Jr	581264	Fraser, J.H.	581410
Curry-Lindahl, K.	581358	Freihofer, W.O.	581183
Cushing, J.E.	581518	Fried, Z.	581802
		Frömming, E.	581506
Da Franca, P.	581495	Fromm, P.O. & R.H. Schiffman	581315
Dales, R.P.	581721	Fry, F.E.J.	581465
Darbyshire, J.	581265	Fryer, G.	581442
Deacon, E.L.	581266	Fukai, R.	581558
Deacon, G.E.R.	581533 581551	Fukuda, M.	581542
Deacon, G.E.R., R.C.H. Russell & J.E.G. Palmer	581267	Fukuoka, J.	581544
De Buen, F.	581559	Gakkel', Y.Y.	581436
Deichmann, E.	581477	Gamulin, T. & J. Karlovac	581790
De la Tourrasse, G.	581213	Gangmark, H.A.	581318
Demir, M.	581782	Gay, P.A.	581822
Demir, M. & N. Arim	581783	Gerasimov, I.P.	581427
Demir, M., A. Acara & N. Arim	581784	Germany, Seewetteramt	581274
Demoll, R.	581653	Gessner, F.	581734
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Detlof, T.A.	581341	Gokhale, S.V.	581294
Deufel, J.	581512	Gooding, R.U.	581711
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Drilhon, A. & J.M. Fine	581666	Graham, M.	581381
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		Groen, P.	581257

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Gurvich, V.F.	581690	Itazawa, Y.	581761
Gusev, A.M. & N.P. Rusin	581345	Ivasik, V.M.	581632
		Iversen, E.S. & E.E. Hovon	581323
h.k.	581366	Iversen, E.S. & H.O. Yoshida	581686
Hallgrimsson, I.	581826	Iwasa, K.	581536
Halsband, E.	581603	Iyigüngör, D.	581774
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Haneda, Y.	581326	Jaasund, E.	581579
Hansen, P.	581617	Jackson, C.J.	581842
Hanzawa, M.	581836	Jagodzinski, Z.	581273
Haque, S.M.A.	581647	Jančařik, A.	581684
Harrington, R.W., Jr. &		Japan, Meteorological Agency	581276
W.L. Bidlingmayer	581316	Jenner, C.E.	581519
Harris, E.K.	581514	Jensen, A.C. & J.R. Clark	581393
Hartman, W.D.	581830	Jensen, A.J.C.	581258 581488
Hashmi, T.A.	581295	Jensen, P.T.	581299
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Hatherton, T.	581191	Johnson, A.L.	581453
Hattop, H.-W.	581312	Johnson, J.W.	581284
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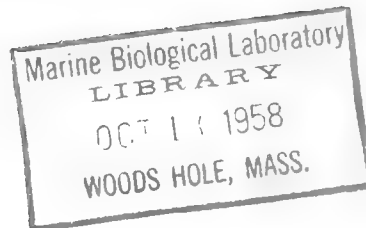
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	581619	581624	581658	581662
	581694	581841		

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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Viale delle Terme di Caracalla, Rome, Italy



CURRENT BIBLIOGRAPHY FOR FISHERIES SCIENCE

prepared by

Biology Branch, Fisheries Division

Curr. Bibliogr. Fish. Sci., 1(6)

Rome, August 1958

containing: taxonomic classification (Suppl. 1-46), taxonomic indexes 1(4) and 1(5), geographic index 1(5), references and author index to, 581843 - 582646

FAO/58/9/6635

[2.1(2)]

THE UNIVERSITY OF CHICAGO
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Errata

Rzoska, J. (1957) 581825
Rep. hydrobiol. Res. Unit, Sudan, (4):28-30
Survey of work in progress -
Observations on tropical temporary
waters

Short summary of knowledge regarding
physico-chemical condition of pools
near Khartoum, & their planktonic
crustacean communities which consist
generally of 2 spp. of Anostraca, at
least 3 spp. of Conchostraca & 'races'
of Triops (Apus). Moina sp. dominates
the 'plankton' together with Metacyclops
minutus.

GLK:hr

F

580787 - MF
580796 - M
580882 - F
580896 - M
580965 - F
580967 - M
580968 - M
580969 - F
580978 - F
580985 - F
581043 - M
581097 - MF
581102 - M
581107 - M
581205 - MF
581582 - F
581596 - F
581626 - MF
581633 - MF
581634 - MF

581584 - FAO:hr

580717 - Paramocium cilia - Paramocium cilia
580754 - rhodophyceae - Rhodophyceae
580931 - will se_ daylight - will sec_ daylight
581006 - Limnonia - Limnoria
581102 - Mutilus - Mytilus
580730 - Chthalmus - Chthalamus
580804 - Ponogophora - Pogonophora
581107 - Palamii - Pallasii
581359 - grayfish - crayfish
581689 - Chelyosoma - Chelyosoma

The corrections above are for errors found in the issues 1(4) and 1(5)
of CBFS. Please make the appropriate amendments.

Addenda

Moulton, J.M. (1957) 580330

Breviora, 80:4 p.

A collection of drawings of fishes ascribed to J.P. Kirtland (1793-1877), in the Library of Bowdoin College

A very brief report announcing the location of historically-significant fishery drawings at Bowdoin College, Me.

:sjh

MF

Merkens, J.C. & K.M. 580884

Downing (1957)

Ann.appl.Biol., 45:521-7

The effect of tension of dissolved oxygen on the toxicity of un-ionized ammonia to several species of fish

Reports a series of experiments on Salmo gairdnerii, Perca fluviatilis, Rutilus rutilus & Gobio gobio.

FAO:sjh

F

Explanatory notes

Beginning this month the names of places and organisms in the geographic and taxonomic indexes respectively will be preceded by code numbers or letters. They are derived from the geographic codes circulated as 1(3):Suppl.1 and the four digit taxonomic code to Orders and families attached as a supplement to the present issue. Inclusion of these symbols facilitates our preparation of punched index cards and they can be used by readers of this bibliography to assemble indexes or card sets in ways other than provided by our published indexes - thus, genera can be grouped in major divisions and orders.

We shall be issuing, at a later date, taxonomic codes to genera, and eventually species of aquatic organisms. These are being assembled in the course of routine preparation of this bibliography.

Current Bibliography for Fisheries Science

TAXONOMIC CLASSIFICATION

The following classification is used as a basis for preparing the taxonomic index of the bibliography. The primary divisions (first digit) conveniently separate the main groups of aquatic organisms, and each division is subdivided to roughly the level of Order (second and third digits, separated from the first by a comma) following some authoritative published work, for example, Berg, L.S. (1947) in the case of Division 1, FISHES. Within each order families containing aquatic species are numbered sequentially in parentheses. Lists and code numbers are being prepared for genera within each order, and species within each genus, and the full species code will be published as part of a catalogue of scientific and common names of aquatic organisms.

The numbers ending ,99 and also 5,49 and 5,89 are used to code documents in which more than about ten species are mentioned, although the main species may also be coded. Examples would be papers reporting the results of experimental trawling or listing the organisms found in the stomach of a species of fish, general fisheries statistics. General papers on plankton are normally coded 1,00 : 2,00 : 3,00 : 6,97 : 7,00, and on benthos 2,00 : 3,00 : 6,97.

Indentation of a name by two spaces indicates that the group to which that number refers is a subdivision of the group indicated by the previous number.

Taxonomic Code - Key to primary divisions

(For Alphabetic Index, see pp. 27-46).

ANIMALS

- 1 FISHES (Acrania + Craniata, Agnatha + Craniata,
Gnathostomata, Series Pisces)
- 2 CRUSTACEANS (Arthropoda, crustacea)
- 3 MOLLUSCS (Invertebrata, mollusca)
- 4 MAMMALS (Vertebrata, mammalia)
- 5 OTHER CHORDATES than fishes and mammals (Amphibia,
reptilia, aves, enteropneusta and
tunicata)
- 6 OTHER INBERTEBRATES (All phylla except chordata and
mollusca, and the class crustacea
of the arthropoda)

PLANTS

- 7 ALGAE
- 8 FUNGI (incl. BACTERIA). VIRUSES
- 9 EMBRYOPHYTES (Mosses and Liverworts; Vascular Plants)

- 1,00 FISHES - GENERAL
- 1,01 AMPHIOXIFORMES
 - (1) Amphioxidae
- 1,02 PETROMYZONIFORMES
 - (1) Petromyzonidae
- 1,03 MYXINIFORMES
 - (1) Bdellostomatidae
 - (2) Paramyxinidae
 - (3) Myxinidae
- 1,04 HETERODONTIFORMES
 - (1) Heterodontidae
- 1,05 HEXANCHIFORMES
 - (1) Chlamydoselachidae
 - (2) Hexanchidae
- 1,06 LAMNIFORMES
 - 1,07 LAMNOIDEI
 - (1) Orectolobidae
 - (2) Odontaspidae
 - (3) Lamnidae
 - 1,08 SCYLIORHINOIDEI
 - (1) Scyliorhinidae
 - (2) Carcharhinidae
 - (3) Sphyrnidae
- 1,09 SQUALIFORMES
 - (1) Squalidae
 - (2) Pristiophoridae
 - (3) Squatinidae
- 1,10 RAJIFORMES
 - (1) Rhinobatidae
 - (2) Pristidae
 - (3) Discobatidae
 - (4) Rajidae
 - (5) Trygonidae
 - (6) Potamotrygonidae
 - (7) Myliobatidae
 - (8) Mobulidae
- 1,11 TORPEDINIFORMES
 - (1) Torpedinidae
- 1,12 CHIMAERIFORMES
 - (1) Chimaeridae
 - (2) Rhinochimaeridae
 - (3) Callorhynchidae

- 1,13 CERATODIFORMES
 - (1) Ceratodidae
- 1,14 LEPIDOSIRENIFORMES
 - (1) Lepidosirenidae
 - (2) Protopteridae
- 1,15 COELACANTHIFORMES
 - (1) Latimeriidae
- 1,16 POLYPTERIFORMES
 - (1) Polypteridae
- 1,17 ACIPENSERIFORMES
 - (1) Acipenseridae
 - (2) Polyodontidae
- 1,18 AMIIFORMES
 - (1) Amiidae
- 1,19 LEPIDOSTEIFORMES
 - (1) Lepidosteidae
- 1,20 CLUPEIFORMES
 - 1,21 CLUPEOIDEI
 - (1) Elopidae
 - (2) Megalopidae
 - (3) Albulidae
 - (4) Pterotrissidae
 - (5) Clupeidae
 - (6) Engraulidae
 - (7) Alepocephalidae
 - (8) Dolichopterygidae
 - (9) Macristiidae
 - 1,22 CHIROCENROIDEI. CHANOIDEI. PHACTOLAEMOIDEI. CROMBERIOIDEI
 - (1) Chirocentridae
 - (2) Chanidae
 - (3) Kneriidae
 - (4) Phractolaemidae
 - (5) Cromeriidae
 - 1,23 SALMONOIDEI
 - (1) Salmonidae
 - (2) Thymallidae
 - (3) Plecoglossidae
 - (4) Osmeridae
 - (5) Argentinidae
 - (6) Bathylagidae
 - (7) Microstomidae
 - (8) Xenophthalmichthyidae
 - (9) Salangidae
 - (10) Retropinnidae
 - (11) Haplochitonidae

- 1,24 ESOCOIDEI
 (1) Dalliidae
 (2) Umbridae
 (3) Esocidae
- 1,25 STOMIATOIDEI
 (1) Gonostomidae
 (2) Sternoptychidae
 (3) Stomiatidae
 (4) Chauliodontidae
 (5) Astronesthidae
 (6) Melanostomiatidae
 (7) Idiacanthidae
- 1,26 OPISTHOPROCTOIDEI.
 GONORHYNCHOIDEI
 (1) Opisthoproctidae
 (2) Gonorhynchidae
- 1,27 NOTOPTEROIDEI
 (1) Hyodontidae
 (2) Notopteridae
- 1,28 OSTEOGLOSSOIDEI
 (1) Arapaimidae
 (2) Osteoglossidae
 (3) Heterotidae
- 1,29 PANTODONTOIDEI
 ANOPTOPTEROIDEI
 (1) Pantodontidae
 (2) Anopteridae
- 1,30 BATHYCLUPEIFORMES
 (1) Bathyclupeidae
- 1,31 GALAXIIFORMES
 (1) Galaxiidae
- 1,32 SCOPELIFORMES
 (1) Synodidae
 (2) Aulopidae
 (3) Scopelarchidae
 (4) Evermannellidae
 (5) Sudidae
 (6) Omosudidae
 (7) Alepisauridae
 (8) Scopelidae
 (9) Cetomimidae
- 1,33 ATELEOPIIFORMES
 (1) Ateleopidae
- 1,34 GIGANTURIFORMES
 (1) Giganturidae

- 1,35 SACCOPHARYNGIFORMES
 (1) Saccopharyngidae
 (2) Eurypharyngidae
 (3) Monognathidae
- 1,36 MORMYRIFORMES
 (1) Gymnarchidae
 (2) Mormyridae
- 1,37 CYPRINIFORMES
- 1,38 CHARACINOIDEI
 (1) Characinidae
 (2) Gasteropelecidae
 (3) Xiphostomidae
 (4) Anostomidae
 (5) Hemiodontidae
 (6) Citharinidae
- 1,39 GYMNOTOIDEI
 (1) Rhamphichthyidae
 (2) Sternarchidae
 (3) Gymnotidae
 (4) Electrophoridae
- 1,40 CYPRINOIDEI
 (1) Catostomidae
 (2) Cyprinidae
 (3) Gyrinocheilidae
 (4) Homalopteridae
 (5) Cobitidae
- 1,41 SILUROIDEI
 (1) Diplomystidae
 (2) Ariidae
 (3) Doradidae
 (4) Auchenipteridae
 (5) Ageniosidae
 (6) Plotosidae
 (7) Siluridae
 (8) Bagridae
 (9) Doiichthyidae
 (10) Amiuridae
 (11) Amblycipitidae
 (12) Akysidae
 (13) Sisoridae
 (14) Amphiliidae
 (15) Chacidae
 (16) Schilbeidae
 (17) Saccobranchidae
 (18) Clariidae
 (19) Olyridae
 (20) Synodontidae
 (21) Malapteruridae
 (22) Pimelodidae
 (23) Helogenidae

- 1,41 (24) Hypophthalmidae
(25) Trichomycteridae
(26) Bunocephalidae
(27) Callichthyidae
(28) Loricariidae
- 1,42 ANGUILLIFORMES
- 1,43 ANGUILLOIDEI
(1) Derichthyidae
(2) Anguillidae
(3) Simenchelyidae
(4) Xenocongridae
(5) Myrocongridae
(6) Muraenidae
(7) Heterenchelyidae
(8) Moringuidae
(9) Muraenesocidae
(10) Neenchelyidae
(11) Nettastomidae
(12) Nessorhamphidae
(13) Congridae
(14) Echelidae
(15) Ophichthyidae
(16) Ilyophidae
(17) Dysommidae
(18) Synaphobranchidae
- 1,44 NEMICHTHYOIDEI
(1) Serrivomeridae
(2) Nemichthyidae
(3) Cyemidae
(4) Avocettinopsidae
(5) Macrocephenchelyidae
(6) Aoteidae
- 1,45 HALOSAURIFORMES
(1) Halosauridae
- 1,46 NOTACANTHIFORMES
(1) Lipogenyidae
(2) Notacanthidae
- 1,47 BELONIFORMES
(1) Belonidae
(2) Scomberesocidae
(3) Hemirhamphidae
(4) Exocoetidae
- 1,48 GADIFORMES
(1) Muraenolepidae
(2) Moridae
(3) Bregmacerotidae
(4) Gadidae
- 1,49 MACRURIFORMES
(1) Macruridae
(2) Macrouroididae
- 1,50 GASTEROSTEIFORMES
(1) Gasterosteidae
(2) Aulorhynchidae
(3) Indostomidae
- 1,51 SYNGNATHIFORMES
(1) Aulostomidae
(2) Fistulariidae
(3) Macrorhamphosidae
(4) Centriscidae
(5) Solenostomidae
(6) Syngnathidae
- 1,52 LAMPRIDIFORMES
- 1,53 LAMPRIDOIDEI
(1) Lampridae
- 1,54 VELIFEROIDEI
(1) Veliferidae
(2) Lophotidae
- 1,55 TRACHYPTEROIDEI
(1) Regalecidae
(2) Trachypteridae
- 1,56 STYLOPHOROIDEI
(1) Stylophoridae
- 1,57 CYPRINODONTIFORMES
(1) Amblyopsidae
(2) Cyprinodontidae
(3) Adrianichthyidae
(4) Goodeidae
(5) Jenynsiidae
(6) Anablepidae
(7) Poeciliidae
- 1,58 PHALLOSTETHIFORMES
(1) Neostethidae
(2) Phallostethidae
- 1,59 PERCOPSIFORMES
(1) Percopsidae
(2) Aphredoderidae
- 1,60 STEPHANOBERYCIFORMES
(1) Stephanoberycidae
(2) Rondeletiidae

- 1,61 BERYCIFORMES
- (1) Polymixiidae
 - (2) Berycidae
 - (3) Diretmidae
 - (4) Caristiidae
 - (5) Trachichthyidae
 - (6) Ostracoberycidae
 - (7) Caulolepidae
 - (8) Korsogasteridae
 - (9) Monocentridae
 - (10) Anomalopidae
 - (11) Holocentridae
 - (12) Gibberichthyidae
 - (13) Melamphaidae
- 1,62 ZEIFORMES
- (1) Zeidae
 - (2) Grammicolepidae
 - (3) Caproidae
- 1,63 MUGILIFORMES
- 1,64 SPHYRAENOIDEI
- (1) Sphyraenidae
- 1,65 MUGILOIDEI
- (1) Mugilidae
 - (2) Atherinidae
- 1,66 POLYNEMIFORMES
- (1) Polynemidae
- 1,67 OPHIOCEPHALIFORMES
- (1) Ophiocephalidae
- 1,68 SYMBRANCHIFORMES
- (1) Alabetidae
 - (2) Symbranchidae
 - (3) Amphipnoidae
- 1,69 PERCIFORMES
- 1,70 PERCOIDEI
- (1) Centropomidae
 - (2) Serranidae
 - (3) Glaucosomidae
 - (4) Theraponidae
 - (5) Banjosidae
 - (6) Pseudoplesiopidae
 - (7) Plesiopidae
 - (8) Acanthoclinidae
 - (9) Kuhliidae
 - (10) Centrarchidae
 - (11) Priacanthidae
 - (12) Apogonidae
 - (13) Acropomidae
 - (14) Percidae
 - (15) Sillaginidae

- 1,70
- (16) Latilidae
 - (17) Malacanthidae
 - (18) Labracoglossidae
 - (19) Lactariidae
 - (20) Pomatomidae
 - (21) Scombropidae
 - (22) Rachycentridae
 - (23) Carangidae
 - (24) Nematistiidae
 - (25) Formionidae
 - (26) Menidae
 - (27) Bramidae
 - (28) Coryphaenidae
 - (29) Arripidae
 - (30) Emmelichthyidae
 - (31) Inermiidae
 - (32) Lutianidae
 - (33) Nemipteridae
 - (34) Lobotidae
 - (35) Liognathidae
 - (36) Pomadasyidae
 - (37) Sciaenidae
 - (38) Lethrinidae
 - (39) Sparidae
 - (40) Maenidae
 - (41) Mullidae
 - (42) Psettidae
 - (43) Pempheridae
 - (44) Toxotidae
 - (45) Scorpidae
 - (46) Dichistiidae
 - (47) Cyphosidae
 - (48) Girellidae
 - (49) Ephippidae
 - (50) Drepanidae
 - (51) Scatophagidae
 - (52) Chaetodontidae
 - (53) Enoplosidae
 - (54) Histiopteridae
 - (55) Pristolepidae
 - (56) Nandidae
 - (57) Polycentridae
 - (58) Hoplegnathidae
 - (59) Cichlidae
 - (60) Cepolidae
 - (61) Embiotocidae
 - (62) Pomacentridae
 - (63) Labridae
 - (64) Odacidae
 - (65) Scaridae
 - (66) Gadopsidae
 - (67) Cirrhitidae
 - (68) Chironemidae
 - (69) Haplodactylidae
 - (70) Chilodactylidae
 - (71) Latridae

1,70

- (72) Trichodontidae
- (73) Opisthognathidae
- (74) Owstoniidae
- (75) Bathymasteridae
- (76) Mugiloididae
- (77) Chimarrichthyidae
- (78) Trachinidae
- (79) Percophidae
- (80) Bembropidae
- (81) Hemerocoetidae
- (82) Trichonotidae
- (83) Creediidae
- (84) Limnichthyidae
- (85) Oxudercidae
- (86) Leptoscopidae
- (87) Dactyloscopidae
- (88) Uranoscopidae
- (89) Champsodontidae
- (90) Chiasmodontidae
- (91) Bovichthyidae
- (92) Nototheniidae
- (93) Bathydraconidae
- (94) Chaenichthyidae
- (95) Pentapodidae

1,71 BLENNIOIDEI

- (1) Blenniidae
- (2) Anarhichadidae
- (3) Xenocephalidae
- (4) Congrogadidae
- (5) Notograptidae
- (6) Peronedyidae
- (7) Ophioclinidae
- (8) Clinidae
- (9) Xiphiasteridae
- (10) Stichaeidae
- (11) Pholidae
- (12) Lumpenidae
- (13) Microdesmidae
- (14) Ptilichthyidae
- (15) Zoarcidae
- (16) Lycodapodidae
- (17) Derepodichthyidae
- (18) Scytalinidae
- (19) Zaproridae
- (20) Schindleriidae

1,72 OPHIDIIOIDEI. AMMODYTOIDEI

- (1) Brotulidae
- (2) Ophidiidae
- (3) Fierasferidae
- (4) Ammodytidae

1,73 CALLIONYMOIDEI. SIGANOIDEI

- (1) Callionymidae
- (2) Draconettidae
- (3) Siganidae

1,74 ACANTHUROIDEI. TRICHIUROIDEI

- (1) Zanclidae
- (2) Acanthuridae
- (3) Gempylidae
- (4) Trichiuridae

1,75 SCOMBROIDEI

- (1) Scombridae
- (2) Cybiidae
- (3) Histiophoridae
- (4) Xiphiidae

1,76 LUVAROIDEI. TETRAGONUROIDEI.
STROMATEOIDEI. ANABANTOIDEI.
LUCIOCEPHALOIDEI. KURTOIDEI.

- (1) Luvaridae
- (2) Tetragonuridae
- (3) Stromateidae
- (4) Nomeidae
- (5) Anabantidae
- (6) Luciocephalidae
- (7) Kurtidae

1,77 GOBIOIDEI

- (1) Eleotridae
- (2) Gobiidae
- (3) Periophthalmidae
- (4) Kraemeriidae

1,78 COTTOIDEI

- (1) Scorpaenidae
- (2) Triglidae
- (3) Caracanthidae
- (4) Aploactidae
- (5) Synanceidae
- (6) Pataecidae
- (7) Hexagrammidae
- (8) Anoplopomidae
- (9) Platycephalidae
- (10) Hoplichthyidae
- (11) Congiopodidae
- (12) Icelidae
- (13) Cottidae
- (14) Cottocomphoridae
- (15) Comephoridae
- (16) Normanichthyidae
- (17) Cottunculidae
- (18) Psychrolutidae
- (19) Agonidae
- (20) Cyclopteridae

1,79 DACTYLOPTERIFORMES

- (1) Dactylopteridae

1,80 THUNNIFORMES

- (1) Thunnidae

- 1,81 PLEURONECTIFORMES
- 1,82 PSETTODOIDEI
 (1) Psettodidae
- 1,83 PLEURONECTOIDEI
 (1) Bothidae
 (2) Pleuronectidae
 (3) Soleidae
 (4) Cynoglossidae
- 1,84 ICOSTEIFORMES
 (1) Icosteidae
- 1,85 CHAUDHURIIFORMES
 (1) Chaudhuriidae
- 1,86 MASTACEMBELIFORMES
 (1) Mastacembelidae
- 1,87 ECHENEIFORMES
 (1) Echeneidae
- 1,88 TETRODONTIFORMES
- 1,89 BALISTOIDEI
 (1) Triacanthidae
 (2) Triodontidae
 (3) Balistidae
- 1,90 OSTRACIOIDEI. TETRODONTOIDEI
 (1) Ostraciidae
 (2) Tetrodontidae
 (3) Diodontidae
- 1,91 MOLOIDEI
 (1) Molidae
- 1,92 GOBIESOCIFORMES
 (1) Gobiesocidae
- 1,93 BATRACHOIDIFORMES
 (1) Batrachoididae
- 1,94 LOPHIIFORMES
- 1,95 LOPHIOIDEI. ANTENNARIOIDEI.
 (1) Lophiidae
 (2) Antennariidae
 (3) Brachionichthyidae
 (4) Chaunacidae
 (5) Oncocephalidae
- 1,96 CERATIOIDEI
 (1) Melanocetidae
 (2) Diceratiidae

- 1,96
 (3) Himantolophidae
 (4) Oneirodidae
 (5) Laevoceratiidae
 (6) Gigantactidae
 (7) Neoceratiidae
 (8) Ceratiidae
 (9) Caulophrynidae
 (10) Photocorynidae
 (11) Linophrynidae

- 1,97 PEGASIFORMES
 (1) Pegasidae

- 1,99 MISCELLANEOUS

2,00 CRUSTACEANS - GENERAL

2,01 BRANCHIOPODA

2,02 ANOSTRACA
 (1) Streptocephalidae
 (2) Branchinectidae
 (3) Chirocephalidae

2,03 NOTOSTRACA
 (1) Apodidae

2,04 CONCHOSTRACA
 (1) Lynceidae
 (2) Limnadiidae
 (3) Leptestheriidae
 (4) Caenestheriidae

2,05 CLADOCERA
 (1) Sididae
 (2) Holopedidae
 (3) Daphniidae
 (4) Bosminidae
 (5) Macrothricidae
 (6) Chydoridae
 (7) Polyphemidae
 (8) Leptodoridae

2,06 OSTRACODA

2,07 PODOCOPA
 (1) Cytheridae
 (2) Cypridae
 (3) Darwinulidae

2,08 MYODOCOPA
 (1) Cypridinidae
 (2) Halocypridae

2,09 COPEPODA

2,10 EUCOPEPODA
 (1) Calanidae
 (2) Centropagidae
 (3) Temoridae
 (4) Diaptomidae
 (5) Pontellidae
 (6) Cyclopidae
 (7) Ergasilidae
 (8) Ectinosomidae
 (9) Harpacticidae
 (10) Tisbidae
 (11) Thalestridae
 (12) Diosaccidae
 (13) Canthocamptidae
 (14) Laophontidae

2,10
 (15) Metidae
 (16) Tachidiidae
 (17) Monstrillidae
 (18) Doropygidae
 (19) Caligidae
 (20) Euryphoridae
 (21) Pandaridae
 (22) Dichelesthidae
 (23) Lernaeidae
 (24) Chondracanthidae
 (25) Lernaeopodidae
 (26) Sphyriidae
 (27) Bomolochidae
 (28) Clausiidae
 (29) Aetideidae
 (30) Euchaetidae
 (31) Stephidae
 (32) Tharybidae

2,11 BRANCHIURA
 (1) Temoridae

2,12 CIRRIPELIA

2,13 THORACICA
 (1) Scalpellidae
 (2) Lepadidae
 (3) Balanidae
 (4) Chthamalidae

2,14 ACROTHORACICA
 (1) Alcippidae

2,15 APODA

2,16 RHIZOCEPHALA

2,17 MALACOSTRACA

2,18 NEBALIACEA

2,19 ANASPIDACEA. BATHYNELLACEA
 (1) Bathynellidae

2,20 MYSIDACEA
 (1) Mysidae
 (2) Lophogastridae

2,21 CUMACEA
 (1) Diastylidae
 (2) Leuconidae
 (3) Bodotriidae
 (4) Nannastacidae
 (5) Pseudocumidae
 (6) Lampropidae

- 2,22 TANAIIDACEA
 (1) Tanaidae
- 2,23 ISOPODA
 (1) Anthuridae
 (2) Cirolanidae
 (3) Algidae
 (4) Cymothoidae
 (5) Limnoriidae
 (6) Sphaeromidae
 (7) Idotheidae
 (8) Asellidae
 (9) Janiridae
 (10) Ligydidae
 (11) Bopyridae
 (12) Parastenetriidae
- 2,24 AMPHIPODA
 (1) Hyperiididae
 (2) Phronimidae
 (3) Lysianassidae
 (4) Talitridae
 (5) Haustoriidae
 (6) Ampeliscidae
 (7) Calliopidae
 (8) Gammaridae
 (9) Photidae
 (10) Amphithoidae
 (11) Corophiidae
 (12) Cheluridae
 (13) Caprellidae
 (14) Amphilochidae
 (15) Cyamidae
- 2,25 STOMATOPODA
 (1) Squillidae
- 2,26 EUPHAUSIACEA
 (1) Euphausiidae
 (2) Benteuphausiidae
- 2,27 DECAPODA
- 2,28 NATANTIA
 (1) Penaeidae
 (2) Cragonidae
 (3) Palaemonidae
 (4) Pandalidae
 (5) Hippolytidae
 (6) Crangonidae
 (7) Sergestidae
 (8) Pasiphaeidae
 (9) Atyidae
 (10) Hoplophoridae
 (11) Alpheidae
 (12) Processidae

- 2,29 REPTANTIA
 (1) Palinuridae
 (2) Homaridae
 (3) Astacidae
 (4) Callinassidae
 (5) Paguridae
 (6) Hippidae
 (7) Leucosiidae
 (8) Inachidae
 (9) Cancridae
 (10) Xanthidae
 (11) Portunidae
 (12) Pinnotheridae
 (13) Grapsidae
 (14) Ocypodidae
 (15) Scyllaridae
 (16) Potamobiidae
 (17) Axiidae
 (18) Laomediidae
 (19) Galatheidae
 (20) Lithodidae
 (21) Majidae
 (22) Corystidae
 (23) Atelecyclidae
 (24) Porcellanidae

2,99 MISCELLANEOUS

- 3,00 MOLLUSCS - GENERAL
- 3,01 AMPHINEURA
- 3,02 APLACOPHORA
- (1) Neomeniidae
 - (2) Proneomeniidae
 - (3) Chaetodermatidae
- 3,03 POLYPLACOPHORA
- (1) Lepidopleuridae
 - (2) Ischnochitonidae
 - (3) Mopaliidae
 - (4) Acanthochitidae
- 3,04 SCAPHOPODA
- (1) Dentaliidae
 - (2) Siphonodentaliidae
- 3,05 GASTROPODA
- 3,06 PROSOBRANCHIATA
- 3,07 SCUTIBRANCHIATA
- (1) Acmaeidae
 - (2) Fissurellidae
 - (3) Haliotidae
 - (4) Trochidae
 - (5) Turbinidae
 - (6) Neritidae
 - (7) Helicinidae
- 3,08 PECTINIBRANCHIATA
- 3,09 PTENOGLOSSA,
GYMNOGLOSSA
RACHIGLOSSA
TOXOGLOSSA
- (1) Janthinidae
 - (2) Epitoniidae
 - (3) Melanellidae
 - (4) Pyramidellidae
 - (5) Muricidae
 - (6) Columbelloidea
 - (7) Nesiidae
 - (8) Buccinidae
 - (9) Turbinellidae
 - (10) Mitridae
 - (11) Olividae
 - (12) Terebridae
 - (13) Conidae
 - (14) Turridae
 - (15) Cancellariidae
 - (16) Stiliferidae
 - (17) Paedophoropodidae
 - (18) Galeodidae

- 3,10 TAENIOGLOSSA
- (1) Naticidae
 - (2) Capulidae
 - (3) Littorinidae
 - (4) Rissoidae
 - (5) Amnicolidae
 - (6) Skeneidae
 - (7) Valvatidae
 - (8) Viviparidae
 - (9) Ampullariidae
 - (10) Cerithiidae
 - (11) Cerithiopsidae
 - (12) Triphoridae
 - (13) Pleuroceratidae
 - (14) Turritellidae
 - (15) Veneridae
 - (16) Strombidae
 - (17) Cypraeidae
 - (18) Doliidae
 - (19) Cassididae
 - (20) Cymatiidae
 - (21) Carinariidae
 - (22) Atlantidae
 - (23) Hydrobiidae
 - (24) Struthiolariidae

- 3,11 OPISTHOBRANCHIATA
- (1) Acteonidae
 - (2) Acteocinidae
 - (3) Scaphandridae
 - (4) Akeratidae
 - (5) Puzosidae
 - (6) Philinidae
 - (7) Aglajidae
 - (8) Tethyidae
 - (9) Spiratellidae
 - (10) Cavolinidae
 - (11) Clionidae
 - (12) Scyllaeidae
 - (13) Dendronotidae
 - (14) Polyceratidae
 - (15) Dorididae
 - (16) Aeolididae
 - (17) Dotonidae
 - (18) Hormacidae
 - (19) Elysiidae
 - (20) Limapontiidae
 - (21) Thylirrhoidae

3,12 PULMONATA

- 3,13 BASALMATOPHORA
- (1) Ellobiidae
 - (2) Lymnaeidae
 - (3) Planorbidae
 - (4) Ancyliidae
 - (5) Physidae

- 3,14 STYLOMMATOPHORA
 (1) Onchidiidae
 (2) Urocoptidae
- 3,15 PELECYPODA (Lamellibranchiata)
- 3,16 PRIONODESMACEA
 (1) Nuculidae
 (2) Nuculanidae
 (3) Solemyacidae
 (4) Arcidae
 (5) Unionidae
 (6) Pteriidae
 (7) Ostreidae
 (8) Pectinidae
 (9) Anomiidae
 (10) Mytilidae
 (11) Dreissensiidae
- 3,17 TELEODESMACEA
 (1) Astartidae
 (2) Carditidae
 (3) Crassatellitidae
 (4) Pleurophoridae
 (5) Cyrenidae
 (6) Erycinidae
 (7) Kellyellidae
 (8) Lucinidae
 (9) Cardiidae
 (10) Mactridae
 (11) Veneridae
 (12) Petricolidae
 (13) Semelidae
 (14) Tellinidae
 (15) Donacidae
 (16) Solenidae
 (17) Myacidae
 (18) Saxicavidae
 (19) Pholadidae
 (20) Teredinidae
 (21) Corbiculidae
- 3,18 ANOMALODESMACEA
 (1) Laternulidae
 (2) Lyonsiidae
 (3) Pandoridae
 (4) Cuspidariidae
- 3,19 CEPHALOPODA
- 3,20 TETRABRANCHIA
 (1) Nautilidae
- 3,21 DIBRANCHIA
 (1) Spirulidae
 (2) Sepiidae

- 3,21
 (3) Sepiolidae
 (4) Loliginidae
 (5) Ommastrephidae
 (6) Onychoteuthidae
 (7) Cranchiidae
 (8) Argonautidae
 (9) Octopodidae
- 3,22 MONOPLACOPHORA
 (1) Tryblidiidae
- 3,99 MISCELLANEOUS

4,00 MAMMALS - GENERAL

4,01 MONOTREMATA

4,02 MARSUPIALIA
 (1) Didelphyidae

4,03 INSECTIVORA
 (1) Talpidae
 (2) Soricidae

4,04 CARNIVORA

4,05 FISSIPEDIA
 (1) Mustelidae
 (2) Ursidae

4,06 PINNIPEDIA
 (1) Otariidae
 (2) Odobaenidae
 (3) Phocidae

4,07 PERISSODACTYLA

4,08 ARTIODACTYLA

4,09 SUINA
 (1) Hippopotamidae

4,10 TYLOPODA

4,11 PECORA

4,12 HYRACOIDEA

4,13 PROBOSIDAE

4,14 SIRENIA
 (1) Dugongidae
 (2) Trichechidae

4,15 RODENTIA

4,16 SIMPLICIDENTATA
 (1) Castoridae and
 Aplodontidae
 (2) Muridae

4,17 DUPLICIDENTATA

4,18 CHIROPTERA

4,19 MICROCHIROPTERA

4,20 MEGACHIROPTERA

4,21 CETACEA

4,22 ODONTOCETI
 (1) Platanistidae and
 Iniidae
 (2) Ziphiidae
 (3) Physeteridae
 (4) Delphinidae and
 Delphinapteridae

4,23 MYSTACOCETI
 (1) Rhachianectidae
 (2) Balaenopteridae
 (3) Balaenidae

4,24 EDENTATA

4,25 LORICATA

4,26 PILOSA

4,27 TUBULIDENTATA

4,28 PHOLIDATA

4,29 PRIMATES

4,30 LEMUROIDEA

4,31 TARSIOIDEA

4,32 ANTHROPOIDEA

4,97 'AQUATIC MAMMALS'

4,99 MISCELLANEOUS

- 5, OTHER CHORDATES
- 5,00 AMPHIBIA
 - 5,01 STEGOCEPHALIA
 - 5,02 GYMNOPHIONA
 - 5,03 CAUDATA
 - 5,04 PROTEIDA
 - (1) Proteidae
 - 5,05 MUTABILIA
 - (1) Cryptobranchidae
 - (2) Ambystomidae
 - (3) Salamandridae
 - (4) Amphiumidae
 - (5) Plethodontidae
 - 5,06 MEANTES
 - (1) Sirenidae
 - 5,07 SALIENTIA
 - 5,08 AMPHICOELA
 - (1) Ascaphidae
 - 5,09 OPISTHOCOELA
 - (1) Discoglossidae
 - (2) Pipidae
 - 5,10 ANOMOCOELA
 - (1) Pelobatidae
 - 5,11 PROCOELA
 - (1) Bufonidae
 - (2) Hylidae
 - (3) Brachycephalidae
 - 5,12 DIPLASIOCOELA
 - (1) Ranidae
- 5,29 Miscellaneous AMPHIBIA
- 5,30 REPTILIA
 - 5,31 CHELONIA
 - (1) Dermochelidae
 - (2) Chelydridae
 - (3) Dermatemyidae
 - (4) Kinosternidae
 - (5) Platysternidae
 - (6) Testudinidae
 - (7) Cheloniidae
 - (8) Pelomedusidae
 - 5,31
 - (9) Chelydidae
 - (10) Carettochelyidae
 - (11) Trionychidae
 - 5,32 RHYNCHOCEPHALIA
 - 5,33 SQUAMATA
 - 5,34 SAURIA
 - (1) Varanidae
 - (2) Anniellidae
 - 5,35 SERPENTES
 - (1) Hydrophidae
 - (2) Colubridae
 - 5,36 LORICATA
 - (1) Crocodylidae
 - 5,49 Miscellaneous REPTILIA
 - 5,50 AVES
 - 5,51 PALAEOGNATHAE
 - 5,52 STRUTHIONIFORMES
 - 5,53 RHEIFORMES
 - 5,54 CASUARIIFORMES
 - 5,55 APTERYGIFORMES
 - 5,56 TINAMIFORMES
 - 5,57 NEOGNATHAE
 - 5,58 SPHENISCIFORMES
 - 5,59 GAVIIFORMES
 - 5,60 COLYMBIFORMES
 - 5,61 PROCELLARIIFORMES
 - (1) Diomedidae
 - (2) Procellaridae
 - 5,62 PELECANIFORMES
 - (1) Pelecanidae
 - (2) Phalacrocoracidae
 - (3) Sulidae
 - 5,63 CICONIIFORMES
 - (1) Ardeidae
 - (2) Phoenicopteridae

- 5,64 ANSERIFORMES
 (1) Anatidae
 (2) Palamedidae
- 5,65 FALCONIFORMES
- 5,66 GALLIFORMES
 (1) Tetraonidae
 (2) Peridicidae
 (3) Phasianidae
 (4) Meleagridae
 (5) Opisthocomidae
- 5,67 GRUIFORMES
 (1) Gruidae
 (2) Rallidae
- 5,68 CHARADRIIFORMES
 (1) Laridae
 (2) Alcidae
- 5,69 COLUMBIFORMES
 (1) Columbidae
- 5,70 CUCULIFORMES
- 5,71 PSITTACIFORMES
- 5,72 STRIGIFORMES
- 5,73 CAPRIMULGIFORMES
- 5,74 MICROPODIFORMES
 (1) Micropodidae
 (2) Trochilidae
- 5,75 COLIIFORMES
- 5,76 TROGONIFORMES
- 5,77 CORACIIFORMES
- 5,78 PICIFORMES
 (1) Picidae
- 5,79 PASSERIFORMES
 (1) Cotingidae
 (2) Tyrannidae
 (3) Alaudidae
 (4) Hirundinidae
 (5) Corvidae
 (6) Paridae
 (7) Sittidae
 (8) Certhiidae
 (9) Chamaeidae
 (10) Cinclidae

- 5,79
 (11) Troglodytidae
 (12) Munidae
 (13) Turdidae
 (14) Regulidae
 (15) Motacillidae
 (16) Bombycillidae
 (17) Ptilogonatidae
 (18) Laniidae
 (19) Sturnidae
 (20) Vireonidae
 (21) Mniotiltidae
 (22) Icteridae
 (23) Thraupidae
 (24) Fringillidae
- 5,87 AQUATIC BIRDS
- 5,89 MISCELLANEOUS BIRDS
- 5,90 INVERTEBRATE CHORDATA,
 considered together may
 include 1,017
- 5,91 ENTEROPNEUSTA
- 5,92 BALANOGLOSSIDA
 (1) Ptychoderidae
 (2) Harrimaniidae
- 5,93 CEPHALODISCIDA
- 5,94 TUNICATA
- 5,95 LARVACEA
 (1) Appendiculariidae
 (2) Kowalevskiidae
- 5,96 ASCIDIACEA
 (1) Synoicidae
 (2) Didemnidae
 (3) Polycitoridae
 (4) Perophoridae
 (5) Ascidiidae
 (6) Rhodosomatidae
 (7) Botryllidae
 (8) Styelidae
 (9) Pyuridae
 (10) Molgulidae
 (11) Pyrosomatidae
- 5,97 THALIACEA
- 5,98 CHORDATA, general. May
 include Division 1 and 47
- 5,99 MISCELLANEOUS

6, OTHER INVERTEBRATES

6,00 PROTOZOA

6,01 MASTIGOPHORA, ZOOMASTIGINA
 /For Phytomastigina see
 code for plants/
 (1) Trypanosomidae

6,02 SARCODINA

6,03 RHIZOPODA

6,04 ACTINOPODA

6,05 SPOROZOA

6,06 TELOSPORIDIA
 (1) Monocystidae

6,07 CNIDOSPORIDIA

6,08 ACNIDOSPORIDIA

6,09 CILIATA

6,10 PROTOCILIATA

6,11 EUCILIATA
 (1) Vorticellidae

6,12 SUCTORIA

6,13 PORIFERA

6,14 CALCAREA

6,15 NONCALCAREA
 (1) Spongiidae
 (2) Clionidae
 (3) Haploscleridae
 (4) Axinellidae

6,16 COELENTERATA

6,17 HYDROZOA
 (1) Sertulariidae
 (2) Bougainvillidae
 (3) Hydridae
 (4) Claridae
 (5) Petasidae
 (6) Velellidae

6,18 SCYPHOZOA
 (1) Ulmaridae

6,19 ANTHOZOA
 (1) Coralliidae
 (2) Stylatulidae
 (3) Sagartiidae

6,20 CTENOPHORA

6,21 TENTACULATA
 (1) Pleurobrachiidae

6,22 NUDA
 (1) Beroidea

6,23 PLATYHELMINTHES

6,24 TURBELLARIA
 (1) Planariidae

6,25 TREMATODES

6,26 MONOGENA
 (1) Gryodactylidae
 (2) Monocotylidae
 (3) Tristomidae
 (4) Octocotylidae
 (5) Microcotylidae
 (6) Gastrocotylidae
 (7) Diclidophoridae

6,27 DIGENA
 (1) Bucephalidae
 (2) Strigeidae
 (3) Troglotrematidae
 (4) Corgoderidae
 (5) Heterophyidae
 (6) Opisthorchiidae
 (7) Homiuridae

6,28 CESTOIDEA

6,29 CESTODARIA
 (1) Amphilinidae
 (2) Gyrocotylidae

6,30 CESTODES
 (1) Onchobothriidae
 (2) Proteocephalidae
 (3) Dibothriiorhynchiidae
 (4) Floricepitidae
 (5) Ptychobothriidae
 (6) Cyathocephalidae
 (7) Diphyllobothriidae

6,31 NEMERTEA

6,32 NEMATHELMINTHES

- 6,33 NEMATODA
(1) Camallanidae
- 6,34 NEMATOMORPHA
- 6,35 ACANTHOCEPHALA
(1) Echinorhynchidae
(2) Neoechinorhynchidae
- 6,36 TROCHELMINTHES
- 6,37 ROTATORIA
(1) Synchaetidae
(2) Conochilidae
(3) Asplanchnidae
- 6,38 GASTROTRICHA
- 6,39 KINORHYNCHA
- 6,40 BRYOZOA
- 6,41 ENTOPROCTA
- 6,42 ECTOPROCTA
(1) Hippoporinidae
- 6,43 BRACHIOPODA
- 6,44 PHORONIDEA
- 6,45 CHAETOGNATHA
- 6,46 ANNELIDA
- 6,47 ARCHIANNELIDA
- 6,48 POLYCHAETA
- 6,49 POLYCHAETA ERRANTIA
(1) Hesionidae
(2) Nephthydidae
(3) Aphroditidae
(4) Syllidae
- 6,50 POLYCHAETA SEDENTARIA
(1) Ariciidae
(2) Cirratulidae
(3) Terebellidae
(4) Arenicolidae
(5) Ammonocharidae
(6) Spionidae
(7) Maldanidae
- 6,51 OLIGOCHAETA
(1) Tubificidae
(2) Enchytraidae
- 6,52 GEPHYREA
- 6,53 HIRUDINEA
- 6,54 ARTHROPODA
- 6,55 ARACHNOIDEA
- 6,56 XIPHOSURA
- 6,57 ARACHNIDA
- 6,58 SCORPIONIDA PALPIGRADI
PEDIPALPI
- 6,59 SOLPUGIDA, PHALANGIIDA
- 6,60 CHELONETHIDA
- 6,61 ARANEAE
(1) Argiopidae
- 6,62 ACARINA
(1) Hydrachnidae
(2) Halacaridae
- 6,63 LINGUATULIDA, TARDIGRADA,
PYCNOGONIDA
- 6,64 ONYCHOPHORA
- 6,65 MYRIAPODA
- 6,66 INSECTA
- 6,67 APTERYGOTA (THYSANURA,
PROTURA, COLLEMBOLA)
- 6,68 PTERYGOTA
- 6,69 ORTHOPTERA
- 6,70 DERMAPTERA
- 6,71 PLECOPTERA
- 6,72 ISOPTERA
- 6,73 EMBIOPTERA
- 6,74 PSOCOPTERA
- 6,75 ANOPLURA
- 6,76 EPHEMEROPTERA

- 6,77 ODONATA
 - (1) Coenagridae
 - (2) Libellulidae
- 6,78 THYSANOPTERA
- 6,79 HEMIPTERA
- 6,80 NEUROPTERA
- 6,81 MECOPTERA
- 6,82 TRICHOPTERA
- 6,83 LEPIDOPTERA
- 6,84 COLEOPTERA
 - (1) Hydrophilidae
 - (2) Dytiscidae
- 6,85 STREPSIPTERA
- 6,86 HYMENOPTERA
- 6,87 DIPTERA
 - (1) Culicidae
 - (2) Tendipedidae
- 6,88 APHANIPTERA
- 6,89 ECHINODERMATA
 - 6,90 CRINOIDEA
 - 6,91 ASTEROIDEA
 - (1) Astropectinidae
 - 6,92 OPHIUROIDEA
 - (1) Amphiuridae
 - (2) Ophiocomidae
 - (3) Ophiolepididae
 - 6,93 ECHINOIDEA
 - (1) Centrechinidae
 - (2) Strongylocentrotidae
 - (3) Scutellidae
 - (4) Echinidae
 - (5) Arbaciidae
 - 6,94 HOLOTHURIOIDEA
- 6,97 AQUATIC INVERTEBRATES
- 6,98 INVERTEBRATES, general. ^{May} include Divisions 2 and 3
- 6,99 MISCELLANEOUS INVERTEBRATES

- 7,00 ALGAE - GENERAL
- 7,01 CHLOROPHYCEAE
- 7,02 VOLVOCALES
- 7,03 CHLAMYDOMONADINEAE
 (1) Chlamydomonadaceae
 (2) Sphaerellaceae
 (3) Polyblepharidaceae
 (4) Placotaceae
- 7,04 TETRASPORINEAE
 (1) Tetrasporaceae
 (2) Palmelliaceae
- 7,05 CHLORODENDRINEAE
 (1) Chlorodendraceae
- 7,06 CHLOROCOCCALES
 (1) Chlorococcaceae
 (2) Eremosphaeraceae
 (3) Chlorellaceae
 (4) Oocystaceae
 (5) Selenastraceae
 (6) Dictyosphaeriaceae
 (7) Hydrodictyaceae
 (8) Coelastraceae
- 7,07 ULOTRICHALES
- 7,08 ULOTRICHINEAE
 (1) Ulotrichaceae
 (2) Microsporaceae
 (3) Cylindrocapsaceae
 (4) Ulvaceae
- 7,09 PRASIOLINEAE
 (1) Prasiolaceae
- 7,10 SPHAEROPLEINEAE
 (1) Sphaeropleaceae
- 7,11 CLADOPHORALES
- 7,12 CHAETOPHORALES
 (1) Chaetophoraceae
 (2) Trentepohliaceae
 (3) Coleochaetaceae
 (4) Chaetosphaeridiaceae
- 7,13 OEDOGONIALES
 (1) Oedogoniaceae
- 7,14 CONJUGALES

- 7,15 EUCONJUGATAE
 (1) Mesotacniaceae
 (2) Zygnomaceae
 (3) Mougeotiaceae
 (4) Gonatozygaceae
- 7,16 DESMIDIOIDEAE
 (1) Desmidiaceae
- 7,17 SIPHONALES
 (1) Protosiphonaceae
 (2) Caulerpaceae
 (3) Derbesiaceae
 (4) Dasycladaceae
 (5) Godiaceae
 (6) Valoniaceae
 (7) Chaetosiphonaceae
 (8) Phyllosiphonaceae
 (9) Vaucheriaceae
- 7,18 CHARALES
 (1) Characeae
- 7,21 XANTHOPHYCEAE
- 7,22 HETEROCHLORIDALES
 (1) Heterochloridaceae
 (2) Heterocapsaceae
 (3) Mischococcaceae
 (4) Heterorhizidaceae
- 7,23 HETEROCOCCALES
 (1) Halosphaeraceae
 (2) Myxochloridaceae
 (3) Chlorobotrydaceae
 (4) Chlorotheciaceae
 (5) Ophiocytaceae
- 7,24 HETEROTRICHALES
 (1) Tribonemaceae
 (2) Heterocloniaceae
- 7,25 HETEROSIPHONALES
 (1) Botrydiaceae
- 7,31 CHRYSOPHYCEAE
- 7,32 CHRYSOMONADALES
 (1) Chromulinaceae
 (2) Oicomonadaceae
 (3) Mallomonadaceae
 (4) Cyrtophoraceae
 (5) Isochrysidaceae
 (6) Coccolithophoridae
 (7) Synuraceae
 (8) Ochromonadaceae

- 7,32
- (9) Monadaceae
 - (10) Lepochromonadaceae
 - (11) Prymnesiaceae
 - (12) Rhizochrysidaceae
 - (13) Lagyniaceae
 - (14) Chrysocapsaceae
 - (15) Naegeliellaceae
 - (16) Hydruraceae
- 7,33 CHRYSOSPHERALES
- (1) Chrysosphaeraceae
 - (2) Chrysostomataceae
 - (3) Pterospermaceae
- 7,34 CHRYSOTRICHALES
- (1) Nematochrysidaceae
 - (2) Phaeothamnionaceae
 - (3) Thallochrysidaceae
- 7,41 BACILLARIOPHYCEAE
- 7,42 CENTRALES
- (1) Discoideae
 - (2) Solenoideae
 - (3) Biddulphioidae
 - (4) Rutilarioideae
- 7,43 PENNALES
- (1) Fragilarioideae
 - (2) Eunotioideae
 - (3) Achnanthoideae
 - (4) Naviculoideae
 - (5) Epithemioidae
 - (6) Nitzschioidae
 - (7) Surirelloideae
- 7,51 CRYPTOPHYCEAE
- 7,52 CRYPTOMONADALES
- (1) Cryptomonadaceae
 - (2) Nephroselmidaceae
 - (3) Phaeocapsaceae
- 7,53 CRYPTOCOCCALES
- (1) Cryptococcaceae
- 7,61 DINOPHYCEAE
- 7,62 DESMOMONADALES
- (1) Desmomonadaceae
- 7,63 THECATALES
- (1) Prorocentraceae

- 7,64 DINOPHYSALES
- (1) Dinophysiaceae
 - (2) Amphisoleniaceae
- 7,65 DINOFLAGELLATA
- 7,66 GYMNODINIOIDEAE
- (1) Pronoctilucaceae
 - (2) Gymnodiniaceae
 - (3) Polykrikaceae
 - (4) Noctilucaceae
 - (5) Warnowiaceae
 - (6) Blastodiniaceae
- 7,67 AMPHILOTHALOIDEAE
KOLKWITZIELLOIDEAE
PERIDINIOIDEAE
- (1) Amphithaliaceae
 - (2) Kolkwitziellaceae
 - (3) Glenodiniaceae
 - (4) Protoceratiaceae
 - (5) Gonyaulaceae
 - (6) Peridiniaceae
 - (7) Ceratiaceae
 - (8) Geniodomaceae
 - (9) Ceratocoryaceae
 - (10) Podolampaceae
 - (11) Dinocapsaceae
 - (12) Rhizodinaceae
- 7,68 DINOCOCCALES. DINOTRICHALES
- (1) Dinococcaceae
 - (2) Dinotrichaceae
 - (3) Dinocloniaceae
- 7,69 CHLOROMONADINEAE
- 7,70 EUGLENINEAE
- (1) Euglenaceae
 - (2) Astasiaceae
 - (3) Peranemaceae
- 7,71 PHAEOPHYCEAE
- 7,72 ECTOCARPALES
- (1) Ectocarpaceae
 - (2) Myrionemataceae
 - (3) Elachistaceae
 - (4) Leathesiaceae
 - (5) Mesogloeaceae
 - (6) Acrotrichaceae
 - (7) Spermatochnaceae
 - (8) Splachnidiaceae
 - (9) Punctariaceae
 - (10) Asperococcaceae
 - (11) Encoeliaceae
 - (12) Dictyosiphonaceae

- 7,73 TILOPTERIDALES
- 7,74 CUTLERIALES
- 7,75 SPOROCHNALES
- 7,76 DESMARESTIALES
- 7,77 LAMINARIALES
 (1) Chordaceae
 (2) Laminariaceae
 (3) Lessoniaceae
 (4) Alariaceae
- 7,78 SPHACELARIALES
 (1) Sphacelariaceae
 (2) Stypocaulaceae
 (3) Cladostephaceae
 (4) Choristocarpaceae
- 7,79 DICTYOTALES
- 7,80 FUCALES
 (1) Fucaceae
 (2) Himanthaliaceae
 (3) Cystoseiraceae
 (4) Sargassaceae
 (5) Hormosiraceae
 (6) Durvilleaceae
 (7) Ascoseiraceae
- 7,81 RHODOPHYCEAE
- 7,82 BANGIALES
 (1) Bangiaceae
 (2) Porphyridiaceae
- 7,83 FLORIDEAE (incl. 7,84/7,89)
- 7,84 NEPHALIONALES
 (1) Acrochaetiaceae
 (2) Batrachospermaceae
 (3) Lemnaceae
 (4) Naccariaceae
 (5) Bonnemaisoniaceae
 (6) Thoreaceae
 (7) Helminthocladaceae
 (8) Chaetangiaceae
- 7,85 GELIDIALES
 (1) Gelidiaceae
- 7,86 CRYPTONEMIALES
 (1) Gloeosiphoniaceae
 (2) Endocladaceae
 (3) Callymeniaceae
- 7,86
 (4) Grateloupiaceae
 (5) Dumontiaceae
 (6) Cruoriaceae
 (7) Rhizophyllidaceae
 (8) Squamariaceae
 (9) Corallinaceae
 (10) Choreocolaceae
 (11) Gloiopeltidaceae
- 7,87 GIGARTINALES
 (1) Calosiphoniaceae
 (2) Nemastomaceae
 (3) Sebdeniaceae
 (4) Furcellariaceae
 (5) Solieriaceae
 (6) Rissocollaceae
 (7) Rhabdoniaceae
 (8) Rhodophyllidaceae
 (9) Hypneaceae
 (10) Plocamiaceae
 (11) Sphaerococcaceae
 (12) Gracilariaceae
 (13) Mychodeaceae
 (14) Acrotylaceae
 (15) Phyllophoraceae
 (16) Gigartinaceae
- 7,88 RHODYMENIALES
 (1) Champiaceae
 (2) Rhodymeniaceae
- 7,89 CERAMIALES
 (1) Ceramiaceae
 (2) Dolesseriaceae
 (3) Rhodomelaceae
 (4) Dasyaceae
- 7,91 MYXOPHYCEAE
- 7,92 CHROOCOCCALES
 (1) Chroococcaceae
 (2) Cyanochloridaceae
 (3) Entophysalidaceae
- 7,93 CHAMAESIPHONALES
 (1) Dermocarpaceae
 (2) Chamaesiphonaceae
 (3) Endonemataceae
 (4) Siphononemataceae
- 7,94 PLEUROCAPSALES
 (1) Pleurocapsaceae
 (2) Hyellaceae

7,95 NOSTOCALES

- (1) Oscillatoriaceae
- (2) Nostocaceae
- (3) Microchaetaceae
- (4) Rivulariaceae
- (5) Scytonemataceae
- (6) Brachytrichieae

7,96 STIGONEMATALES

- (1) Pulvinulariaceae
- (2) Capsosiraccae
- (3) Nostochopsidaceae
- (4) Loeffgreniaceae
- (5) Stigonemataceae

7,99 MISCELLANEOUS

Note: - Subdivisions with aquatic forms are indicated by an asterisk

8, FUNGI (incl. BACTERIA). VIRUSES	8,53 TAPHRINALES
8,00 FUNGI - GENERAL	8,54 ASPERGILLALES *
8,01 BACTERIA *	8,55 MYRIANGIALES (1) Pseudosphaeriaceae
8,11 ACTINOMYCETALES	8,56 PERISPORIALES
8,21 MYXOMYCETES	8,57 LABOULBENIALES
8,22 ACRASIALES	8,58 SPHAERIALES *
8,23 LABYRINTHULALES *	8,59 DOTHIDEALES *
8,24 PLASMODIOPHORALES	8,60 HYPOCREALES
8,25 PHYSARALES	8,61 HYSTERIALES *
8,26 STEMONITALES	8,62 HEMISPHAERIALES
8,27 LICEALES	8,63 HELOTIALES
8,28 TRICHIALES	8,64 PHACIDIALES
8,31 EUMYCOPHYTA	8,65 PEZIZALES
8,32 PHYCOMYCETES	8,66 HELVELLIALES
8,33 CHYTRIDIALES *	8,67 TUBERALES
8,34 LAGENIDIALES *	8,70 ASCOLICHENES
8,35 BLASTOCLADIALES *	8,71 BASIDIOMYCETES
8,36 MONOBLEPHARIDIALES *	8,72 USTILAGINALES
8,37 SAPROLEGINALES *	8,73 UREDINALES
8,38 LEPTOMITALES *	8,74 AURICULARIALES
8,39 PYTHIALES *	8,75 TREMELLALES
8,40 PERONOSPORALES	8,76 DACRYOMYCETALES
8,41 MUCORALES	8,77 AGARICALES
8,42 ENTOMOPHTHORALES *	8,78 HYMENOGASTRALES
8,45 ENDOGONALES	8,79 PODAXALES
8,47 ECCRINALES *	8,80 PHALLALES
8,51 ASCOMYCETES	8,81 LYCOPERDALES
8,52 SACCHAROMYCETALES	8,82 SCLERODERMATALES

- 8,83 NIDULARIALES
- 8,91 "FUNGI IMPERFECTI"
- 8,92 PHOMALES
- 8,93 MELANCONIALES
- 8,94 MONILIALES
- 8,95 MYCELIA STERILIA
- 8,96 VIRUSES
- 8,97 "AQUATIC FUNGI; FUNGI AND
VIRUSES PARASITIC IN
AQUATIC ORGANISMS"
- 8,99 MISCELLANEOUS

- 9,00 EMBRYOPHYTES - GENERAL
- 9,01 BRYOPHYTA
- 9,02 HEPATICAE
- 9,03 MARCHANTIALES
(1) Ricciaceae
- 9,04 JUGERMANNIALES
(1) Anacrogynaceae
(2) Lepidoziaceae
- 9,05 ANTHOCEROTALES
- 9,06 MUSCI
- 9,07 SPHAGNALES
(1) Sphagnaceae
- 9,08 ANDREAEEALES
- 9,09 BRYALES
(1) Fontinalaceae
- 9,11 PTERIDOPHYTA
- 9,12 PSILOTALES
- 9,14 LYCOPODIALES
- 9,15 SELAGINELLALES
- 9,16 ISOETALES
(1) Isoetaceae
- 9,18 EQUISETALES
(1) Equisetaceae
- 9,21 FILICINAE
- 9,22 OPHIOGLOSSALES
- 9,23 MARATTIALES
- 9,24 FILICALES
- 9,25 HYDROPTERIDALES
(1) Marsiliaceae
(2) Salviniaceae
(3) Azollaceae
- 9,30 SPERMATOPHYTA
- 9,31 GYMNOSPERMAE
- 9,32 CYCADALES
- 9,33 GINKGOALES
- 9,34 CONIFERALES
- 9,35 GNETALES
- 9,41 ANGIOSPERMAE
- 9,42 MONOCOTYLEDONEAE
- 9,43 HELOBIAE
(1) Alismataceae
(2) Butomaceae
(3) Hydrocharitaceae
(4) Scheuchzeriaceae
(5) Aponogetonaceae
(6) Potamogetonaceae
(7) Najadaceae
- 9,44 LILIIFLORAE
(1) Pontederiaceae
- 9,45 ENANTIOBLASTAE
- 9,46 CYPERALES
(1) Cyperaceae
- 9,47 GLUMIFLORAE
(1) Gramineae
- 9,48 SCITAMINEAE
- 9,49 GYNANDRAE
- 9,50 SPADICIFLORAE
(1) Lemnaceae
- 9,51 PANDANALES
(1) Thyphaceae
- 9,52 DICOTYLEDONEAE
- 9,53 VERTICILLATAE
- 9,54 FAGALES
- 9,55 MYRICALES
- 9,56 BALANOPSIDALES
- 9,57 LEITNERIALES
- 9,58 JUGLANDALES

- | | | | |
|------|----------------------|------|----------------------|
| 9,59 | GARRYALES | 9,84 | BICORNES |
| 9,60 | SALICALES | 9,85 | DIOSPYRALES |
| 9,61 | BATIDALES | 9,86 | TUBIFLORAE |
| 9,62 | URTICALES | | (1) Lentibulariaceae |
| 9,63 | PIPERALES | | (2) Labiatae |
| 9,64 | PROTEALES | | (3) Plantaginaceae |
| 9,65 | SANTALALES | 9,87 | CONTORTAE |
| 9,66 | POLYGONALES | 9,88 | LIGUSTRALES |
| 9,67 | CENTROSPERMAE | 9,89 | RUBIALES |
| 9,68 | TRICOCCAE | 9,90 | CUCURBITALES |
| 9,69 | HAMAMELIDALES | 9,91 | SYNANDRAE |
| 9,70 | POLYCARPICAЕ | | (1) Compositae |
| | (1) Ranunculaceae | | (2) Lobeliaceae |
| | (2) Nymphaeaceae | 9,97 | AQUATIC EMBRYOPHYTES |
| 9,71 | RHOEADALES | 9,99 | MISCELLANEOUS |
| | (1) Cruciferae | | |
| 9,72 | PARIETALES | | |
| 9,73 | GUTTIFERALES | | |
| 9,74 | ROSALES | | |
| 9,75 | MYRTALES | | |
| | (1) Halorrhagidaceae | | |
| 9,76 | COLUMNIFERAЕ | | |
| 9,77 | GRUINALES | | |
| 9,78 | TEREBINTHALES | | |
| 9,79 | CELASTRALES | | |
| 9,80 | RHAMNALES | | |
| 9,81 | UMBELLIFLORAE | | |
| | (1) Umbelliferae | | |
| 9,82 | PLUMBAGINALES | | |
| 9,83 | PRIMULALES | | |
| | (1) Primulaceae | | |

Taxonomic Code - Alphabetic Index

Abyssocottini	1,78(14)	Alepocephalidae	1,21 (7)
ACANTHOCEPHALA	6,35	ALGAE, GEN.	7,00
Acanthochitidae	3,03 (4)	ALGAE, MISC.	7,99
Acanthoclinidae	1,70 (8)		
(Acanthopterygii, Percomorphi)	1,69	Algidae	2,23 (3)
Acanthuridae	1,74 (2)	Alismataceae	9,43 (1)
ACANTHUROIDEI	1,74	(Allotriognathi)	1,52
ACARINA	6,62	Alopiini	1,07 (3)
(Achiridae)	1,83 (3)	Alpheidae	2,28(11)
Achirini	1,83 (3)	(Ambassidae)	1,70 (1)
Achnantheoideae	7,43 (3)	(Amblycepidae)	1,41(11)
(Acinaceidae)	1,74 (3)	Amblycipitidae	1,41(11)
Acipenseridae	1,17 (1)	Amblyopsidae	1,57 (1)
ACIPENSERIFORMES	1,17	AMBLYOPSOIDEI	1,57
(Acipenserini)	1,17 (1)	Ambystomidae	5,05 (2)
Acmaeidae	3,07 (1)	Amiidae	1,18 (1)
ACNIDOSPORIDIA	6,08	AMIIFORMES	1,18
ACRASIALES	8,22	Amiuridae	1,41(10)
Acrochaetiaceae	7,84 (1)	Ammocharidae	6,50 (5)
(Acronuridae)	1,74 (2)	Ammodytidae	1,72 (4)
Acropomidae	1,70(13)	AMMODYTOIDEI	1,72
ACROTHORACICA	2,14	Amnicolidae	3,10 (5)
(Acrotidae, Jordan)	1,84 (1)	Ampeliscidae	2,24 (6)
Acrotrichaceae	7,72 (6)	(Amphacanthi)	1,73
Acrotylaceae	7,87(14)	AMPHIBIANS, Misc.	5,29
Acteocinidae	3,11 (2)	AMPHIBIANS, Gen.	5,00
Acteonidae	3,11 (1)		
ACTINOMYCETALES	8,11		
ACTINOPODA	6,04	AMPHIBODA	2,24
(Adinida - Dinoflagellida)	7,63	AMPHICOELA	5,08
Adrianichthyidae	1,57 (3)	Amphiliidae	1,41(14)
Aeolididae	3,11(16)	Amphilinidae	6,29 (1)
Aetideidae	2,10(29)	Amphilochidae	2,24(14)
AGARICALES	8,77	Amphilothaliaceae	7,67 (1)
Ageniosidae	1,41 (5)	AMPHILOTHALOIDEAE	7,67
Aglajidae	3,11 (7)	AMPHINEURA	3,01
Agonidae	1,78(19)	Amphioxidae	1,01 (1)
(Agridae)	1,41(28)	AMPHIOXIFORMES	1,01
(Agriopidae)	1,78(11)	Amphipnoidae	1,68 (1)
Akeratidae	3,11 (4)	AMPHIPODA	2,24
Akysidae	1,41(12)	(Amphiprionidae)	1,70(62)
Alabetidae	1,68 (1)	(Amphisilidae)	1,51 (1)
ALABETOIDEI	1,68	Amphisoleniaceae	7,64 (2)
(Alabidae)	1,68 (1)	Amphithoidae	2,24(10)
Alariaceae	7,77 (4)	Amphiumidae	5,05 (4)
Alaudidae	5,79 (3)	Amphiuridae	6,92 (1)
Albulidae	1,21 (3)	Ampullariidae	3,10 (9)
Alcidae	5,68 (2)	Anabantidae	1,76 (5)
Alcippidae	2,14 (1)	ANABANTOIDEI	1,76
Alepisauridae	1,32 (7)	Anablepidae	1,57 (6)
		Anacrogynaceae	9,04 (1)

Anarhichadidae	1,71 (2)
ANASPIDACEA	2,19
Anatidae	5,64 (1)
Ancylidae	3,13 (4)
ANDREAEALES	9,08
ANGIOSPERMAE	9,41
Anguillidae	1,43 (2)
ANGUILLIFORMES	1,42
ANGUILLOIDEI	1,43
ANNELIDA	6,46
Anniellidae	5,34 (2)
ANOMALODESMACEA	3,18
Anomalopidae	1,61 (10)
Anomiidae	3,16 (9)
ANOMOCOELA	5,10
Anoplomomidae	1,78 (8)
ANOPLIURA	6,75
Anostomidae	1,38 (4)
ANOSTRACA	2,02
Anotopteridae	1,29 (2)
ANOPTEROIDEI	1,29
ANSERIFORMES	5,64
Antennariidae	1,95 (2)
Antennariini	1,95 (2)
ANTENNARIOIDEI	1,95
ANTHOCEROTALES	9,05
ANTHOZOA	6,19
ANTHROPOIDEA	4,32
Anthuridae	2,23 (1)
Antigoniini	1,62 (3)
(Anura)	5,07
Aoteidae	1,44 (6)
APHANIPTERA	6,88
Aphredoderidae	1,59 (2)
APHREDODEROIDEI	1,59
Aphroditidae	6,49 (3)
(Aplachitonidae)	1,23 (11)
APLACOPHORA	3,02
Aploactidae	1,78 (4)
(Aplodactylidae)	1,70 (69)
Aplodontidae	4,16 (1)
APODA	2,15
(Apoda)	5,02
(Apodes)	1,42
Apodidae	2,03 (1)
Apogonidae	1,70 (12)
(Apolectidae)	1,70 (25)
Aponogetonaceae	9,43 (5)
Appendiculariidae	5,95 (1)
(Apterotonidae)	1,39 (2)
APTERYGIFORMES	5,55
APTERYGOTA, THYSANURA, PROTURA, COLLEMBOLA	6,67
AQUATIC EMBRYOPHYTES	9,97
ARACHNIDA	6,57
ARACHNOIDEA	6,55

ARANEAE	6,61
Arapaimidae	1,28 (1)
Arbaciidae	6,93 (5)
ARCHIANNELIDA	6,47
Arcidae	3,16 (4)
Ardeidae	5,63 (1)
Arenicolidae	6,50 (4)
Argentinidae	1,23 (5)
Argiopidae	6,61 (1)
Argonautidae	3,21 (8)
Ariciidae	6,50 (1)
Ariidae	1,41 (2)
Arripidae	1,70 (29)
ARTHROPODA	6,54
ARTIODACTYLA	4,08
Ascaphidae	5,08 (1)
(Ascelichthyidae)	1,78 (13)
ASCIDIACEA	5,96
Asciidiidae	5,96 (5)
ASCOLICHENES	8,70
ASCOMYCETES	8,51
Ascoseiraceae	7,80 (7)
Asellidae	2,23 (8)
ASPERGILLALES	8,54
Asperococcaceae	7,72 (10)
(Aspidophoroididae)	1,78 (19)
Asplanchnidae	6,37 (3)
(Aspredinidae)	1,41 (26)
Astaciidae	2,29 (3)
Astartidae	3,17 (1)
Astasiaceae	7,70 (2)
(Astasiidae)	7,70 (2)
ASTEROIDEA	6,91
Astronesthidae	1,25 (5)
Astropectinidae	6,91 (1)
(Atelaxia)	1,56
Atelecyclidae	2,29 (23)
Ateleobranchini	1,49 (1)
Ateleopidae	1,33 (1)
ATELEOPIFORMES	1,33
Atherinidae	1,65 (2)
Atherinini	1,65 (2)
Atlantidae	3,10 (22)
(Atracheata)	9,01
Atyidae	2,28 (9)
Auchenipteridae	1,41 (4)
Aulopidae	1,32 (2)
Aulorhynchidae	1,50 (2)
Aulostomidae	1,51 (1)
AURICULARIALES	8,74
Auxidini	1,80 (1)
AVES - see also BIRDS	5,50
Avocettinini	1,44 (2)
Avocettinopsidae	1,44 (4)
Axiidae	2,29 (17)
Axinellidae	6,15 (4)
Azollaceae	9,25 (3)

BACILLARIOPHYCEAE	7,41
BACTERIA	8,01
(Bagariidae)	1,41 (13)
Bagridae	1,41 (8)
Balaenidae	4,23 (3)
Balaenopteridae	4,23 (2)
Balanidae	2,13 (3)
BALANOGLOSSIDA	5,92
BALANOPSIDALES	9,56
Balistidae	1,89 (3)
Balistini	1,89 (3)
BALISTOIDEI	1,89
Bangiaceae	7,82 (1)
BANGIALES	7,82
Banjosidae	1,70 (5)
BASIDIOMYCETES	8,71
BASOMMATOPHORA	3,13
Bathyclupeidae	1,30 (1)
BATHYCLUPEIFORMES	1,30
Bathydraconidae	1,70 (93)
Bathygadini	1,49 (1)
Bathylagidae	1,23 (6)
Bathymasteridae	1,70 (75)
BATHYNELLACEA	2,19
Bathynellidae	2,19 (1)
Bathypteroini	1,32 (5)
BATIDALES	9,61
(Batrachia)	5,00
(Batrachidae)	1,93 (1)
Batrachoididae	1,93 (1)
BATRACHOIDIFORMES	1,93
Batrachoidini	1,93 (1)
Batrachospermaceae	7,84 (2)
Bdellostomatidae	1,03 (1)
Belonidae	1,47 (1)
BELONIFORMES	1,47
Bembropidae	1,70 (80)
Benthauphausiidae	2,26 (2)
Beroidae	6,22 (1)
Berycidae	1,61 (2)
BERYCIFORMES	1,61
(Berycomorphi)	1,61
BICORNES	9,84
Biddulphioidae	7,42 (3)
BIRDS, Aquatic	5,87
BIRDS, General	5,50
BIRDS, Misc.	5,89
BLASTOCLADIALES	8,35
Blastodiniaceae	7,66 (6)
(Bleckeriidae)	1,72 (4)
Blenniidae	1,71 (1)
BLENNIOIDEI	1,71
(Blepsiidae)	1,78 (13)
Bodotriidae	2,21 (3)
Bombycillidae	5,79 (16)
Bomolochidae	2,10 (27)

Bonelliidae	6,53 (1)
Bonnemaisoniaceae	7,84 (5)
Bopyridae	2,23 (11)
Bosminidae	2,05 (4)
Bothidae	1,83 (1)
Bothini	1,83 (1)
Botiini	1,40 (5)
Botrydiaceae	7,25 (1)
Botryllidae	5,96 (7)
Bougainvillidae	6,17 (2)
Bovichthyidae	1,70 (91)
(Bovichtidae)	1,70 (91)
Brachionichthyidae	1,95 (3)
BRACHIOPODA	6,43
Brachycephalidae	5,11 (3)
Brachytrichiae	7,95 (6)
BRACHIOPODA	6,43
Bramidae	1,70 (27)
Branchinectidae	2,02 (2)
BRANCHIOPODA	2,01
(Branchiostegidae)	1,70 (16)
(Branchiostomidae)	1,01 (1)
BRANCHIURA	2,11
Bregmacerotidae	1,48 (3)
Brotulidae	1,72 (1)
BRYALES	9,09
BRYOPHYTA	9,01
BRYOZOA	6,40
Buccinidae	3,09 (8)
Bucephalidae	6,27 (1)
Bufonidae	5,11 (1)
Bullidae	3,11 (5)
Bunocephalidae	1,41 (26)
Butomaceae	9,43 (2)
Caenestheriidae	2,04 (4)
Calanidae	2,10 (1)
CALCAREA	6,14
Caligidae	2,10 (19)
Callianassidae	2,29 (4)
Callichthyidae	1,41 (27)
Callionymidae	1,73 (1)
CALLIONYMOIDEI	1,73
Calliopiidae	2,24 (7)
(Callipterygidae)	1,70 (78)
Callorhynchidae	1,12 (3)
Callymeniaceae	7,86 (3)
(Callyodontidae)	1,70 (65)
Calosiphoniaceae	7,87 (1)
Camallanidae	6,33 (1)
Cancellariidae	3,09 (15)
Cancriidae	2,29 (9)
(Canthigasteridae)	1,90 (2)
Canthocamptidae	2,10 (13)
Caprellidae	2,24 (13)

CAPRIMULGIFORMES	5,73	Cetomimidae	1,32 (9)
Caproidae	1,62 (3)	Cetorhinini	1,07 (3)
Caproini	1,62 (3)	CETACEA	4,21
Capsosiraceae	7,96 (2)	Chacidae	1,41 (15)
Capulidae	3,10 (2)	Chaenichthyidae	1,70 (94)
Caracanthidae	1,78 (3)	Chaetangiaceae	7,84 (8)
Carangidae	1,70 (23)	Chaetodermatidae	3,02 (3)
(Carapidae)	1,72 (3)	(Chaetodipteridae)	1,70 (49)
Carcharhinidae	1,08 (2)	Chaetodontidae	1,70 (52)
(Carchariidae)	1,08 (2)	CHAETOGNATHA	6,45
(Carcharinida)	1,08	Chaetophoraceae	7,12 (1)
Cardiidae	3,17 (9)	CHAETOPHORALES	7,12
Carditidae	3,17 (2)	Chaetosiphonaceae	7,17 (7)
Carettochelyidae	5,31 (10)	Chaetosphaeridiaceae	7,12 (4)
Carinariidae	3,10 (21)	Chamaeidae	5,79 (9)
Caristiidae	1,61 (4)	Chamaesiphonaceae	7,93 (2)
CARNIVORA	4,04	CHAMAESIPHONALES	7,93
Cassididae	3,10 (19)	(Chamnichthyidae)	1,70 (94)
Castoridae	4,16 (1)	Champiaceae	7,88 (1)
CASUARIIFORMES	5,54	Champsodontidae	1,70 (89)
Catostomidae	1,40 (1)	Chanidae	1,22 (2)
CAUDATA	5,03	(Channidae)	1,67 (1)
Caulerpaceae	7,17 (2)	CHANOIDEI	1,22
Caulolepidae	1,61 (7)	Characeae	7,18 (1)
Caulophrynidae	1,96 (9)	(Characidae)	1,38 (1)
Cavolinidae	3,11 (10)	Characinidae	1,38 (1)
(Cebedichthyidae)	1,71 (10)	CHARACINOIDEI	1,38
CELASTRALES	9,79	(Characodontidae)	1,57 (4)
(Centraciontidae)	1,04 (1)	CHARADRIIFORMES	5,68
CENTRALES	7,42	CHARALES	7,18
Centrarchidae	1,70 (10)	Chaudhuriidae	1,85 (1)
Centrechinidae	6,93 (1)	CHAUDHURIIFORMES	1,85
Centriscidae	1,51 (4)	Chauliodontidae	1,25 (4)
Centropagidae	2,10 (2)	Chaunacidae	1,95 (4)
Centropomidae	1,70 (1)	CHELONETHIDA	6,60
CENTROSPERMAE	9,67	CHELONIA	5,31
(Cephalacanthidae)	1,79 (1)	Cheloniidae	5,31 (7)
CEPHALODISCIDA	5,93	Cheluridae	2,24 (12)
CEPHALOPODA	3,19	Chelydidae	5,31 (9)
(Cephalopteridae)	1,10 (8)	Chelydridae	5,31 (2)
Cepolidae	1,70 (60)	Chiasmodontidae	1,70 (90)
Ceramiaceae	7,89 (1)	Chilodactylidae	1,70 (70)
CERAMIALES	7,89	Chimaeridae	1,12 (1)
Ceratiaceae	7,67 (7)	CHIMAERIFORMES	1,12
Ceratiidae	1,96 (8)	Chimarrhichthyidae	1,70 (77)
CERATIOIDEI	1,96	Chirocentridae	1,22 (1)
Ceratocoryaceae	7,67 (9)	CHIROCENTROIDEI	1,22
Ceratodidae	1,13 (1)	Chirocephalidae	2,02 (3)
CERATODIFORMES	1,13	(Chirolophidae)	1,71 (11)
(Cerdalidae)	1,71 (13)	Chironemidae	1,70 (68)
Cerithiidae	3,10 (10)	CHIROPTERA	4,18
Cerithiopsidae	3,10 (11)	Chlamydomonadaceae	7,03 (1)
Certhiidae	5,79 (8)	(Chlamydomonadidae)	7,03 /part 7
CESTODARIA	6,29	CHLAMYDOMONADINEAE	7,03
CESTODES	6,30	Chlamydoselachidae	1,05 (1)
CESTOIDEA	6,28	Chlorellaceae	7,06 (3)

Chlorobotrydaceae	7,23 (3)	Clupeini	1,21 (5)
Chlorococcaceae	7,06 (1)	CLUPEOIDEI	1,21
CHLOROCOCCALES	7,06	(Clupisudidae)	1,28 (3)
Chlorodendraceae	7,05 (1)	CNIDOSPORIDIA	6,07
CHLORODENDRINEAE	7,05	Cobitidae	1,40 (5)
CHLOROMONADINEAE	7,69	Cobitini	1,40 (5)
Chlorophthalmini	1,32 (5)	Coccolithophoridaeae	7,32 (6)
CHLOROPHYCEAE	7,01	Codiaceae	7,17 (5)
Chlorotheciaceae	7,23 (5)	COELACANTHIFORMES	1,15
Chondracanthidae	2,10(24)	COELACANTHOIDEI	1,15
(Chondrobrachii)	1,33	Coenagridae	6,77 (1)
(Chonerhinidae)	1,90 (2)	Coelastraceae	7,06 (8)
Chordaceae	7,77 (1)	COELENTERATA	6,16
CHORDATES, Invertebrate	5,90	Coleochaetaceae	7,12 (3)
CHORDATES, Misc.	6,99	COLEOPTERA	6,84
CHORDATES, Other	5,	COLIIFORMES	5,75
Choreocolaceae	7,86(10)	COLLEMBOLA	6,67
Choristocarpaceae	7,78 (4)	Colubridae	5,35 (2)
(Chromidae)	1,70(59)	Columbellidae	3,09 (6)
Chroococcaceae	7,92 (1)	Columbidae	5,69 (1)
CHROOCOCCALES	7,92	COLUMBIFORMES	5,69
Chromulinaceae	7,32 (1)	COLUMNIFERAEE	9,76
(Chromulinidae and		COLYMBIFORMES	5,60
Ochromonadidae)	7,32	Comephoridae	1,78(15)
Chrysocapsaceae	7,32(14)	Compositae	9,91 (1)
CHRYSOMONADALES	7,32	CONCHOSTRACA	2,04
(Chrysomonadida)	7,31	Congiopodidae	1,78(11)
CHRYSOPHYCEAE	7,31	Congridae	1,43(13)
Chrysosphaeraceae	7,33 (1)	Congrogadidae	1,71 (4)
CHRYSOSPHAERALES	7,33	Conidae	3,09(13)
Chrysostomataceae	7,33 (2)	CONIFERALES	9,34
CHRYSOTRICHIALES	7,34	CONJUGALES	7,14
Chthamalidae	2,13 (4)	Cenochieidae	6,37 (2)
Chydoridae	2,05 (6)	CONTORTAE	9,87
CHYTRIDIALES	8,33	COPEPODA	2,09
Cichlidae	1,70(59)	CORACIIFORMES	5,77
CICONIIFORMES	5,63	Coralliidae	6,19 (1)
CILIATA	6,09	Corallinaceae	7,86 (9)
Cinclidae	5,79(10)	Corbiculidae	3,17(21)
Cirolanidae	2,23 (2)	(Coregonidae)	1,23 (1)
Cirratulidae	6,50 (2)	Coregonini	1,23 (1)
Cirrhitidae	1,70(67)	Corgoderidae	6,27 (4)
CIRRIPIEDIA	2,12	Corophiidae	2,24(11)
(Cirrostomi)	1,01	Corvidae	5,79 (5)
Citharinidae	1,38 (6)	Coryphaenidae	1,70(28)
CLADOCERA	2,05	(Coryphaenoididae)	1,49 (1)
CLADOPHORALES	7,11	Corystidae	2,29(22)
Cladostephaceae	7,78 (3)	Cotingidae	5,79 (1)
Claridae	6,17 (4)	Cottidae	1,78(13)
Clariidae	1,41(18)	Cottocomephoridae	1,78(14)
Clausiidae	2,10(28)	Cottocomephorini	1,78(14)
Clinidae	1,71 (8)	COTTOIDEI	1,78
Clionidae	3,11(11)	Cottunculidae	1,78(17)
Clionidae	6,15 (2)	Cragonidae	2,28 (2)
Clupeidae	1,21 (5)	Cranchiidae	3,21 (7)
CLUPEIFORMES	1,20	Crangonidae	2,28 (6)

(Cranoglanidae)	1,41 (8)
Crassatellitidae	3,17 (3)
Creediidae	1,70(83)
CRINOIDEA	6,90
(Crocodylia)	5,36
Crocodylidae	5,36 (1)
Cromeriidae	1,22 (5)
CROMERIOIDEI	1,22
Cruciferae	9,71 (1)
Cruoriaceae	7,86 (6)
CRUSTACEANS, GEN.	2,00
CRUSTACEANS, MISC.	2,99

(Cryptacanthodidae)	1,71(10)
Cryptococcaceae	7,53 (1)
CRYPTOCOCCALES	7,53
Cryptomonadaceae	7,52 (1)
CRYPTOMONADALES	7,52
(Cryptomonadida)	7,52
(Cryptomonadidae)	7,52 (1)
CRYPTONEMIALES	7,86
CRYPTOPHYCEAE	7,51
Cryptobranchidae	5,05 (1)
Cryptophoraceae	7,32 (4)
CTENOPHORA	6,20
CUCULIFORMES	5,70
CUCURBITALES	9,90
Culicidae	6,87 (1)
CUMACEA	2,21
Cuspidariidae	3,18 (4)
Cyamidae	2,24(15)
CUTLERIALES	7,74
Cyanochloridaceae	7,92 (2)
(Cyanophyceae)	7,91
Cyathocephalidae	6,30 (6)
Cybiidae	1,75 (2)
CYCADALES	9,32
Cyclopidae	2,10 (6)
Cyclopteridae	1,78(20)

Cyemidae	1,44 (3)
Cylindrocapsaceae	7,08 (3)
Cymatiidae	3,10(20)
Cymnarchidae	1,36 (1)
Cymothoidae	2,23 (4)
Cynoglossidae	1,83 (4)
Cyperaceae	9,46 (1)
CYPERALES	9,46
Cyphosidae	1,70(47)
Cypraeidae	3,10(17)
Cypridae	2,07 (2)
Cypridinidae	2,08 (1)
Cyprini	1,37
Cyprinidae	1,40 (2)
CYPRINIFORMES	1,37
Cyprinini	1,40 (2)

Cyprinodontidae	1,57 (2)
CYPRINODONTIFORMES	1,57
CYPRINODONTOIDEI	1,57
CYPRINOIDEI	1,40
Cyrenidae	3,17 (5)
Cyrtophoraceae	7,32 (4)
Cystoseiraceae	7,80 (3)
Cytheridae	2,07 (1)

DACRYOMYCETALES	8,76
Dactylopteridae	1,79 (1)
DACTYLOPTERIFORMES	1,79
Dactyloscopidae	1,70(87)
Dalliidae	1,24 (1)
Daphniidae	2,05 (3)
Darwinulidae	2,07 (3)
Dasyaceae	7,89 (4)
(Dasyatidae)	1,10 (5)
(Dasybatidae)	1,10 (5)
Dasycladaceae	7,17 (4)
DECAPODA	2,27
Delesseriaceae	7,89 (2)
Delphinapteridae	4,22 (4)
Delphinidae	4,22 (4)
Dendronotidae	3,11(13)
Dentaliidae	3,04 (1)
Derbesiaceae	7,17 (3)
Derepodichthyidae	1,71(17)
Derichthyidae	1,43 (1)
DERMAPTERA	6,70
Dermatemyidae	5,31 (3)
Dermocarpaceae	7,93 (1)
Dermochelidae	5,31 (1)
DESMARESTIALES	7,76
Desmidiaceae	7,16 (1)
DESMIDIOIDEAE	7,16
Desmomonadaceae	7,62 (1)
DESMOMONADALES	7,62
(Dianidae)	1,76 (1)
Diaptomidae	2,10 (4)
Diastylidae	2,21 (1)
(Diatoms)	7,41
Dibothriorhynchiidae	6,30 (3)
DIBRANCHIA	3,21
Diceratiidae	1,96 (2)
Dichelesthiidae	2,10(22)
Dichistiidae	1,70(46)
Diclidophoridae	6,26 (7)
DICOTYLEDONEAE	9,52
Dictyosiphonaceae	7,72(12)
Dictyosphaeriaceae	7,06 (6)
DICTYOTALES	7,79
Didelphyidae	4,02 (1)
Didemnidae	5,96 (2)
DIGENA	6,27

(Diniferida -	7,64/
Dinoflagellida)	7,65
Dinocapsaceae	7,67(11)
Dinocloniaceae	7,68 (3)
Dinococcaceae	7,68 (1)
DINOCOCCALES	7,68
DINOFLAGELLATA	7,65
(Dinoflagellida, adinida)	7,63
(Dinoflagellida, -	7,64/
diniferida)	7,65
DINOPHYCEAE	7,61
Dinophysiaceae	7,64 (1)
DINOPHYSIALES	7,64
(Dinophysidae)	7,64 (1)
Dinotrichaceae	7,68 (2)
DINOTRICHALES	7,68
Diodontidae	1,90 (3)
Diomedeidae	5,61 (1)
Diosaccidae	2,10(12)
DIOSPYRALES	9,85
Diphyllbothriidae	6,30 (7)
DIPLASIOCOELA	5,12
Diplomystidae	1,41 (1)
DIPTERA	6,87
Dirctmidae	1,61 (3)
Discobatidae	1,10 (3)
(Discocephali)	1,87
Discoglossidae	5,09 (1)
Discoideae	7,42 (1)
Doiichthyidae	1,41 (9)
Dolichopterygidae	1,21 (8)
(Doliichthyidae)	1,77 (2)
Doliidae	3,10(18)
Donacidae	3,17(15)
Doradidae	1,41 (3)
Dorididae	3,11(15)
Doropygidae	2,10(18)
Dorosomatini	1,21 (5)
Doryichthyini	1,51 (6)
DOTHIDEALES	8,59
Dotonidae	3,11(17)
Draconettidae	1,73 (2)
Dreissensiidae	3,16(11)
(Drepanichthyidae)	1,70(50)
Drepanidae	1,70(50)
Dugongidae	4,14 (1)
Dumontiaceae	7,86 (5)
DUPLICIDENTATA	4,17
Durvilleaceae	7,80 (6)
Dussumieriini	1,21 (5)
Dysommidae	1,43(17)
Dytiscidae	6,84 (2)

ECCRINALES	8,47
Echelidae	1,43(14)
Echeneidae	1,87 (1)
ECHENEIFORMES	1,87
(Echidnidae)	1,43 (6)
Echinidae	6,93 (4)
ECHINODERMATA	6,89
ECHINOIDEA	6,93
Echinorhinini	1,09 (1)
Echinorhynchidae	6,35 (1)
Ectinosomidae	2,10 (8)
Ectocarpaceae	7,72 (1)
ECTOCARPALES	7,72
ECTOPROCTA	6,42
EDENTATA	4,24
Elachistaceae	7,72 (3)
(Elassomidae)	1,70(10)
Electrophoridae	1,39 (4)
Eleginini	1,48 (4)
Eleotridae	1,77 (1)
Eleotriini	1,77 (1)
(Elephenoridae)	1,61 (4)
Ellobiidae	3,13 (1)
Elopidae	1,21 (1)
Elysiidae	3,11(19)
EMBIOPTERA	6,73
Embiotocidae	1,70(61)
(Emblemariidae)	1,71 (8)
EMBRYOPHYTA, GEN.	9,00
Emmelichthyidae	1,70(30)
ENANTIOBLASTAE	9,45
ENCHYTRAIDAE	
Enchytraidae	6,51 (2)
Encoeliaceae	7,72(11)
Endocladiaceae	7,86 (2)
ENDOGONALES	8,45
Endonemataceae	7,93 (3)
Engraulidae	1,21 (6)
Enoplosidae	1,70(53)
ENTEROPNEUSTA	5,91
ENTOMOPHTHORALES	8,42
Entophysalidaceae	7,92 (3)
ENTOPROCTA	6,41
EPHEMEROPTERA	6,76
Ephippidae	1,70(49)
Ephippini	1,70(49)
Epibulini	1,70(63)
Epithemioideae	7,43 (5)
Epitoniidae	3,09 (2)
Equisetaceae	9,18 (1)
EQUISETALES	9,18
Eremosphaeraceae	7,06 (2)
Ereuniini	1,78(12)
Ergasilidae	2,10 (7)
(Erilepidae)	1,78 (8)

ERRANTIA [<u>Polychaeta</u>]	6,49
Erycinidae	3,17 (6)
Esocidae	1,24 (3)
ESOCOIDEI	1,24
Euchaetidae	2,10(30)
EUCILIATA	6,11
EUCONJUGATAE	7,15
EUCOPEPODA	2,10
Euglenaceae	7,70 (1)
(Euglenidae)	7,70 (1)
EUGLENINEAE	7,70
(Euglenoidida)	7,70
EUMYCOPHYTA	8,31
Eunotioidae	7,43 (2)
EUPHAUSIACEA	2,26
Euphausiidae	2,26 (1)
Eurypharyngidae	1,35 (2)
Euryphoridae	2,10(20)
(Eventognathi)	1,40
Evermannellidae	1,32 (4)
Exocoetidae	1,47 (4)
EXOCOETOIDEI	1,47
FAGALES	9,54
FALCONIFORMES	5,65
Fierasferidae	1,72 (3)
FILICALES	9,24
FILICINAE	9,21
FISHES, GEN.	1,00
FISHES, MISC.	1,99
FISSIPEDIA	4,05
Fissurellidae	3,07 (2)
Fistulariidae	1,51 (2)
(Fitzroyiidae)	1,57 (5)
Floriceptitidae	6,30 (4)
FLORIDEAE	7,83
(Flutidae)	1,68 (2)
Fontinalaceae	9,09 (1)
Formionidae	1,70(25)
Fragilarioideae	7,43 (1)
Fringillidae	5,79(24)
Fucaceae	7,80 (1)
FUCALES	7,80
Fundulini	1,57 (2)
"FUNGI - AQUATIC; FUNGI AND VIRUSES PARASITIC IN AQUATIC ORGANISMS"	8,98
FUNGI, GEN.	8,00
"FUNGI IMPERFECTI"	8,91
FUNGI, MISC.	8,99
FUNGI (incl. BACTERIA). VIRUSES	8,
Furcellariaceae	7,87 (4)

Gadidae	1,48(4)
GADIFORMES	1,48
Gadini	1,48(4)
GADOIDEI	1,48
Gadopsidae	1,70(66)
Galatheidae	2,29(19)
Galaxiidae	1,31 (1)
GALAXIIFORMES	1,31
Galeodidae	3,09(18)
(Galeoidei)	1,06
GALLIFORMES	5,66
Gambusiini	1,57 (7)
Gammaridae	2,24 (8)
GARRYALES	9,59
Gasteropelecidae	1,38 (2)
Gasterosteidae	1,50 (1)
GASTEROSTEIFORMES	1,50
Gastrocotylidae	6,26 (6)
Gastromyzonini	1,40 (4)
GASTROPODA	3,05
Gastrotokeini	1,51 (6)
GASTROTRICHA	6,38
GAVIIFORMES	5,59
Gelidiaceae	7,85 (1)
GELIDIALES	7,85
Gempylidae	1,74 (3)
GEPHYREA	6,52
Gibberichthyidae	1,61(12)
Gigantactidae	1,96 (6)
Giganturidae	1,34 (1)
GIGANTURIFORMES	1,34
Gigartinaceae	7,87(16)
GIGARTINALES	7,87
GINKGOALES	9,33
Girellidae	1,70(48)
Glaucosomidae	1,70 (3)
Glenodiniaceae	7,67 (3)
(Glenodiniidae)	7,67 (3)
Gloeosiphoniaceae	7,86 (1)
Gloiopeltidaceae	7,86(11)
GLUMIFLORAE	9,47
(Gnathacanthidae)	1,78 (6)
GNETALES	9,35
Gobiesocidae	1,92 (1)
GOBIESOCIFORMES	1,92
Gobiidae	1,77 (2)
Gobiini	1,77 (2)
Gobiobotini	1,40 (2)
GOBIOIDEI	1,77
(Gobioididae)	1,77 (2)
Gobioidini	1,77 (2)
Gonatozygaceae	7,15 (4)
Goniodomaceae	7,67 (8)
Gonorhynchidae	1,26 (2)

GONORHYNCHOIDEI.	1,26
Gonostomidae	1,25 (1)
Gonyaulaceae	7,67 (5)
Goodeidae	1,57 (4)
Gracilariaceae	7,87(12)
Gramineae	9,47 (1)
Grammicolepidae	1,62 (2)
Grapsidae	2,29(13)
Grateloupiaceae	7,86 (4)
Gruidae	5,67 (1)
GRUIFORMES	5,67
GRUINALES	9,77
Gryodactylidae	6,26 (1)
Gulaphallini	1,58 (1)
GUTTIFERALES	9,73
Gymnarchidae	1,36 (1)
GYMNARCHOIDEI	1,36
GYMNODINIACEAE	7,66 (2)
(Gymnodiniidae)	7,66 (2)
GYMNODINIIOIDEAE	7,66
(Gymnodinioida)	7,66
(Gymnodontes)	1,90 (2)
GYMNOGLOSSA	3,09
(Gymnonoti, Clanencheli)	1,39
GYMNOPHIONA	5,02
GYMNOSPERMAE	9,31
Gymnotidae	1,39 (3)
GYMNOTOIDEI	1,39
GYNANDRAE	9,49
Gyrinocheilidae	1,40 (3)
Gyrocotylidae	6,29 (2)
Halacaridae	6,62 (2)
Halimochirurgini	1,89 (1)
Haliotidae	3,07 (3)
Halocypridae	2,08 (2)
Halorrhagidaceae	9,75 (1)
Halosauridae	1,45 (1)
HALOSAURIFORMES	1,45
Halosphaeraceae	7,23 (1)
HAMAMELIDALES	9,69
Haplochitonidae	1,23(11)
Haplodactylidae	1,70(69)
(Haplodoci)	1,93
(Haplomi)	1,24
Haploscleridae	6,15 (3)
Harpacticidae	2,10 (9)
(Harpagiferidae, Jordan)	1,70(92)
Harpagiferini	1,70(92)
Harrimaniidae	5,92 (2)
Haustoriidae	2,24 (5)
Helicinidae	3,07 (7)
Helminthocladaceae	7,84 (7)

HELOBIAE	9,43
Helogenidae	1,41(23)
(Helostomidae)	1,76 (5)
HELOTIALES	8,63
HELVELLALES	8,66
Hemerocoetidae	1,70(81)
(Hemichordata)	5,91
Hemiodontidae	1,38 (5)
HEMIPTERA	6,79
Hemirhamphidae	1,47 (3)
HEMISPHERIALES	8,62
(Hemitriptoridae)	1,78(13)
Hemiuridae	6,27 (7)
HEPATICAE	9,02
(Hepatidae)	1,74 (2)
(Heptatretidae)	1,03 (1)
Hermacidae	3,11(18)
Hesionidae	6,49 (1)
Heterenchelyidae	1,43 (7)
Heterocapsaceae	7,22 (2)
Heterochloridaceae	7,22 (1)
HETEROCHLORIDALES	7,22
Heterocloniaceae	7,24 (2)
HETEROCOCCALES	7,23
(Heterocongridae)	1,43(13)
Heterodontidae	1,04 (1)
HETERODONTIFORMES	1,04
HETERODONTOIDEI	1,04
(Heterognathi)	1,38
(Heterokontae)	7,21
(Heteromi)	1,46
(Heteronemidae)	7,70(3)
Heterophyidae	6,27 (5)
(Heteropneustidae)	1,41(17)
Heterorhizidaceae	7,22 (4)
HETEROSIPHONALES	7,25
(Heterosomata)	1,81
Heterotidae	1,28 (3)
HETEROTRICHALES	7,24
Hexagrammidae	1,78 (7)
Hexanchidae	1,05 (2)
HEXANCHIFORMES	1,05
(Hexapoda)	6,66
HIGHER PLANTS, AQUATIC	9,97
HIGHER PLANTS, MISC.	9,99
Himantaliaceae	7,80 (2)
Himantolophidae	1,96 (3)
Hippidae	2,29 (6)
Hippocampini	1,51 (6)
(Hippoglossidae)	1,83 (2)
Hippolytidae	2,28 (5)
Hippoporinidae	6,42 (1)
Hippopotamidae	4,09 (1)
HIRUDINEA	6,53

Hirundinidae	5,79(4)
(Histichthyes)	1,54
Histiophoridae	1,75 (3)
Histiopteridae	1,70(54)
Holocentridae	1,61(11)
Holopodidae	2,05 (2)
HOLOTHURIOIDEA	6,94
Homalopteridae	1,40 (4)
Homaridae (Nephropsidae)	2,29 (2)
Hoplegnathidae	1,70(58)
Hoplichthyidae	1,78(10)
Hoplophoridae	2,28(10)
Hormosiraceae	7,80 (5)
Hydrachnidae	6,62 (1)
Hydridae	6,17 (3)
Hydrobiidae	3,10(23)
Hydrocharitaceae	9,43 (4)
Hydrodictyaceae	7,06 (7)
Hydrophidae	5,35 (1)
Hydrophilidae	6,84 (1)
HYDROPTERIDALES	9,25
HYDROZOA	6,17
Hydruraceae	7,32(16)
Hyellaceae	7,94 (2)
Hylidae	5,11 (2)
HYMENOASTRALES	8,78
HYMENOPTERA	6,86
Hyodontidae	1,27 (1)
Hyperiididae	2,24 (1)
Hypneaceae	7,87 (9)
HYPOCREALES	8,60
Hypomesini	1,23 (4)
Hypophthalmidae	1,41(24)
Hypophthalmichthyini	1,40 (2)
(Hypoptychidae)	1,72 (4)
HYRACOIDEA	4,12
HYSTERIALES	8,61
Icelidae	1,78(12)
Icelini	1,78(12)
(Ichthyocephali)	1,68
Icosteidae	1,84 (1)
ICOSTEIFORMES	1,84
Icteridae	5,79(22)
Idiacanthidae	1,25 (7)
Idotheidae	2,23 (7)
Ilyophidae	1,43(16)
Inachidae	2,29 (8)
Indostomidae	1,50 (3)
Inermiidae	1,70(31)
Iniidae	4,22 (1)
(Iniomi)	1,32
INSECTA	6,66
INSECTIVORA	4,03
INVERTEBRATES, AQUATIC	6,97

INVERTEBRATES, GEN.	6,98
INVERTEBRATES, MISC.	6,99
INVERTEBRATES, OTHER	6,
Ischnochitonidae	3,03 (2)
Isochrysidaceae	7,32 (5)
Isoetaceae	9,16 (1)
ISOETALES	9,16
(Isokontae)	7,01
ISOPODA	2,23
ISOPTERA	6,72
(Isospondyli, Malacopterygii)	1,20
(Isurida)	1,07
Janiridae	2,23 (9)
Janthinidae	3,09 (1)
Jenynsiidae	1,57 (5)
(Jordaniidae)	1,78(13)
JUGERMANNIALES	9,04
JUGLANDALES	9,58
Kellyellidae	3,17 (7)
KINORHYNCHA	6,39
Kinosternidae	5,31 (4)
Kneriidae	1,22 (3)
Kolkwitzziellaceae	7,67 (2)
KOLKWITZIELLOIDEAE	7,67
Korsogasteridae	1,61 (8)
Kowalevskiidae	5,95 (2)
Kraemeriidae	1,77 (4)
Kuhliidae	1,70 (9)
Kurtidae	1,76 (7)
KURTOIDEI	1,76
(Kyphosidae)	1,70(47)
Labiatae	9,86 (2)
LABOULBENIALES	8,57
Labracoglossidae	1,70(18)
Labridae	1,70(63)
LABYRINTHULALES	8,23
(Lacertilia)	5,34
Lactariidae	1,70(19)
Laevoceratiidae	1,96 (5)
LAGENIDIALES	8,34
Lagyniceae	7,32(13)
(Lamellibranchiata)	3,15
Laminariaceae	7,77 (2)
LAMINARIALES	7,77
Lamnidae	1,07 (3)
LAMNIFORMES	1,06
Lamnini	1,07 (3)
LAMNOIDEI	1,07
Lamprichthyini	1,57 (2)
Lampridae	1,53 (1)
LAMPRIDIFORMES	1,52
LAMPRIDOIDEI	1,53

Lampropidae	2,21 (6)
Laniidae	5,79(18)
Laomediidae	2,29(18)
Laophontidae	2,10(14)
Laridae	5,68 (1)
LARVACEA	5,95
Laternulidae	3,18 (1)
(Latidae)	1,70 (1)
Latilidae	1,70(16)
Latimeriidae	1,15 (1)
Latridae	1,70(71)
Leathesiaceae	7,72 (4)
LEITNERIALES	9,57
Lemaneaceae	7,84 (3)
Lemnaceae	9,50 (1)
LEMUROIDEA	4,30
Lentibulariaceae	9,86 (1)
Lepadidae	2,13 (2)
(Lepidoglanidae)	1,40 (4)
(Lepidopidae)	1,74 (4)
Lepidopleuridae	3,03 (1)
LEPIDOPTERA	6,83
Lepidosirenidae	1,14 (1)
LEPIDOSIRENIFORMES	1,14
Lepidosteidae	1,19 (1)
LEPIDOSTEIFORMES	1,19
Lepidoziaceae	9,04
Lepochromonadaceae	7,32(10)
Leptestheriidae	2,04 (3)
Leptocephalidae)	1,43(13)
Leptodoridae	2,05 (8)
LEPTOMITALES	8,38
Leptoscopidae	1,70(86)
Lernaeidae	2,10(23)
Lernaeopodidae	2,10(25)
Lessoniaceae	7,77 (3)
Lethrinidae	1,70(38)
Leuconidae	2,21 (2)
Leucosiidae	2,29 (7)
Libellulidae	6,77 (2)
LICEALES	8,27
LIGUSTRALES	9,88
Ligyidae	2,23(10)
LILIIFLORAE	9,44
Limapontiidae	3,11(20)
Limnadiidae	2,04 (2)
Limnichthyidae	1,70(84)
Limnoriidae	2,23 (5)
LINGUATULIDA	6,63
Linophrynidae	1,96(11)
Liognathidae	1,70(35)
(Liparidae)	1,78(20)
(Liparopidae)	1,78(20)
Lipogenyidae	1,46 (1)
Lithodidae	2,29(20)

Littorinidae	3,10 (3)
Lobeliaceae	9,91 (2)
Lobotidae	1,70(34)
Loefgreniaceae	7,96 (4)
Loliginidae	3,21 (4)
Lophiidae	1,95 (1)
LOPHIIFORMES	1,94
LOPHIOIDEI	1,95
(Lophobranchii)	1,51
Lophogastridae	2,20 (2)
Lophotidae	1,54 (2)
Loricariidae	1,41(28)
LORICATA	5,36
LORICATA	4,25
(Loricati)	1,78
(Luciidae)	1,24 (3)
Lucinidae	3,17 (8)
Luciocephalidae	1,76 (6)
LUCIOCEPHALOIDEI	1,76
Lumpenidae	1,71(12)
Lutianidae	1,70(32)
Luvaridae	1,76 (1)
LUVAROIDEI	1,76
(Lyapomi)	1,45
Lycodapodidae	1,71(16)
(Lycodidae)	1,71(15)
Lyconini	1,49 (1)
LYCOPERDALES	8,81
LYCOPODIALES	9,14
Lymnaeidae	3,13 (2)
Lynceidae	2,04 (1)
(Lyomeri)	1,35
Lyonsiidae	3,18 (2)
Lysianassidae	2,24 (3)
Macristiidae	1,21 (9)
Macrocephenchelyidae	1,44 (5)
Macrorhamphosidae	1,51 (3)
Macrothricidae	2,05 (5)
Macrouroididae	1,49 (2)
Macruridae	1,49 (1)
MACRURIFORMES	1,49
Macrurini	1,49 (1)
Macruronini	1,49 (1)
Mactridae	3,17(10)
Maenidae	1,70(40)
Majidae	2,29(21)
Malacanthidae	1,70(17)
(Malacichthyees)	1,84
(Malacosteidae)	1,25 (6)
MALACOSTRACA	2,17
Malapteruridae	1,41(21)
Maldanidae	6,50 (7)
Mallomonadaceae	7,32 (3)

Mallomonadaceae	7,32 (3)
(Malopteruridae)	1,41 (21)
(Malthidae)	1,95 (5)
MAMMALS, AQUATIC	4,97
MAMMALS, GENERAL	4,00
MAMMALS, MISC.	4,99
(Mantidae)	1,10 (8)
MARATTIALES	9,23
MARCHANTIALES	9,03
Marsiliaceae	9,25 (1)
MARSUPIALIA	4,02
Mastacembelidae	1,86 (1)
MASTACEMBELIFORMES	1,86
MASTIGOPHORA, ZOOMASTIGINA	6,01
MEANTES	5,06
MECOPTERA	6,81
(Medidae Jordan)	1,40 (2)
MEGACHIROPTERA	4,20
Megalopidae	1,21 (2)
Melamphaidae	1,61 (13)
MELANCONIALES	8,93
Melanellidae	3,09 (3)
Melanocetidae	1,96 (1)
Melanostomiatidae	1,25 (6)
Meleagridae	5,66 (4)
Menidae	1,70 (26)
(Merlucciidae, Jordan)	1,48 (4)
Merlucciini	1,48 (4)
Mesogloeaceae	7,72 (5)
Mesotaeniaceae	7,15 (1)
Metidae	2,10 (15)
Microchaetaceae	7,95 (3)
MICROCHIROPTERA	4,19
Microcotylidae	6,26 (5)
(Microcyprini, Cyprinodontes)	1,57
Microdesmidae	1,71 (13)
Micropodidae	5,74 (1)
MICROPODIFORMES	5,74
(Micropteridae)	1,70 (10)
Microsporaceae	7,08 (2)
Microstomidae	1,23 (7)
Mischococcaceae	7,22 (3)
Mitridae	3,09 (10)
Mniotiltidae	5,79 (21)
Mobulidae	1,10 (8)
(Mochocidae)	1,41 (20)
Molgulidae	5,96 (10)
Molidae	1,91 (1)
MOLLUSCS, AQUATIC	3,97
MOLLUSCS, GEN.	3,00
MOLLUSCS, MISC.	3,99
MOLQIDEI	1,91
Monacanthini	1,89 (3)
Monadaceae	7,32 (9)

MONILIALES	8,94
MONOBLEPHARIDALES	8,36
Monocentridae	1,61 (9)
MONOCOTYLEDONEAE	9,42
Monocotylidae	6,26 (2)
Monocystidae	6,06 (1)
(Monodactylidae)	1,70 (42)
MONOGENA	6,26
Monognathidae	1,35 (3)
MONOPLACOPHORA	3,22
Monopterini	1,68 (2)
MONOTREMATA	4,01
Monstrillidae	2,10 (17)
Mopaliidae	3,03 (3)
Mordaciini	1,02 (1)
Moridae	1,48 (2)
Moringuidae	1,43 (8)
Mormyridae	1,36 (2)
MORMYRIFORMES	1,36
Motacillidae	5,79 (15)
Mougeotiaceae	7,15 (3)
MUCORALES	8,41
Mugilidae	1,65 (1)
MUGILIFORMES	1,63
MUGILOIDEI	1,65
Mugiloididae	1,70 (76)
Mullidae	1,70 (41)
Munidae	5,79 (12)
Muraenesocidae	1,43 (9)
Muraenidae	1,43 (6)
Muraenolepidae	1,48 (1)
MURAENOLEPIDOIDEI	1,48
Muricidae	3,09 (5)
Muridae	4,16 (2)
MUSCI	9,06
Mustelidae	4,05 (1)
MUTABILIA	5,05
Myacidae	3,17 (17)
MYCELIA STERILIA	8,95
Mychodeaceae	7,87 (13)
(Myctophidae)	1,32 (8)
Myliobatidae	1,10 (7)
MYODOCOPA	2,08
MYRIANGIALES	8,55
MYRIAPODA	6,65
MYRICALES	9,55
Myrionemataceae	7,72 (2)
Myrocongridae	1,43 (5)
MYRTALES	9,75
MYSIDACEA	2,20
Mysidae	2,20 (1)
MYSTACOCETI	4,23
Mytilidae	3,16 (10)
Myxini	1,03 (Class)
Myxinidae	1,03 (3)

MYXINIFORMES	1,03
Myxochloridaceae	7,23 (2)
MYXOMYCETES	8,21
(Myxomycophyta)	8,21
MYXOPHYCEAE	7,91
Naccariaceae	7,84 (4)
Naegeliellaceae	7,32 (15)
Najadaceae	9,43 (7)
Nandidae	1,70 (56)
Nannatherinini	1,65 (2)
Nannastacidae	2,21 (4)
(Narcationtidae)	1,11 (1)
Nassidae	3,09 (7)
NATANTIA	2,28
Naticidae	3,10 (1)
Nautilidae	3,20 (1)
Naviculoideae	7,43 (4)
NEBALIACEA	2,18
Neenchelyidae	1,43 (10)
Nemachilini	1,40 (5)
NEMALIONALES	7,84
Nemastomaceae	7,87 (2)
NEMATHELMINTHES	6,32
Nematistiidae	1,70 (24)
Nematochrysidaceae	7,34 (1)
NEMATODA	6,33
(Nematognathi)	1,41
NEMATOMORPHA	6,34
NEMERTEA	6,31
Nemichthyidae	1,44 (2)
Nemichthyini	1,44 (2)
NEMICHTHYOIDEI	1,44
Nemipteridae	1,70 (33)
Neoceratiidae	1,96 (7)
Neoechinorhynchidae	6,35 (2)
NEOGNATHAE	5,57
Neomeniidae	3,02 (1)
(Neophrynychthyidae)	1,78 (18)
Neostethidae	1,58 (1)
(Nephropsidae)	2,29 (2)
Nephroselmidaceae	7,52 (2)
Nephrrhydidae	6,49 (2)
Neritidae	3,07 (6)
Nerophiini	1,51 (6)
Nessorhamphidae	1,43 (12)
Nettastomidae	1,43 (11)
NEUROPTERA	6,80
NIDULARIALES	8,83
Nitzschioideae	7,43 (6)
Noctilucae	7,66 (4)
(Noctilucidae)	7,66 (4)
Nomeidae	1,76 (4)
NONCALCAREA	6,15

Normanichthyidae	1,78 (16)
Nostocaceae	7,95 (2)
NOSTOCALES	7,95
Nostochopsidaceae	7,96 (3)
Notacanthidae	1,46 (2)
NOTACANTHIFORMES	1,46
Notacanthini	1,46 (2)
(Notidanidae)	1,05 (2)
(Notidanoidei)	1,05
Notograptidae	1,71 (5)
Notopteridae	1,27 (2)
NOTOPTEROIDEI	1,27
NOTOSTRACA	2,03
Notosudini	1,32 (5)
Nototheniidae	1,70 (92)
Nototheniini	1,70 (92)
Novumbrini	1,24 (2)
Nuculanidae	3,16 (2)
Nuculidae	3,16 (1)
NUDA	6,22
Nymphaeaceae	9,70 (2)
Ochromonadaceae	7,32 (8)
(Ochromonadidae and Chromulinidae)	7,32
Octocotylidae	6,26 (4)
Octopodidae	3,21 (9)
Ocypodidae	2,29 (14)
Odacidae	1,70 (64)
Odoabaenidae	4,06 (2)
ODONATA	6,77
Odontaspidae	1,07 (2)
Odontaspini	1,07 (2)
ODONTOCETI	4,22
(Odontostomidae)	1,32 (4)
Oedogoniaceae	7,13 (1)
OEDOGONIALES	7,13
(Ogcocephalidae)	1,95 (5)
Oicomonadaceae	7,32 (2)
OLIGOCHAETA	6,51
Olividae	3,09 (11)
Olyridae	1,41 (19)
Ommastrephidae	3,21 (5)
Omosudidae	1,32 (6)
Onchidiidae	3,14 (1)
Onchobothriidae	6,30 (1)
Oncocephalidae	1,95 (5)
Oneirodidae	1,96 (4)
ONYCHOPHORA	6,64
Onychoteuthidae	3,21 (6)
Oocystaceae	7,06 (4)
Ophichthyidae	1,43 (15)
(Ophidia)	5,35
Ophidiidae	1,72 (2)

OPHIDIIOIDEI	1,69
Ophiocephalidae	1,67 (1)
OPHIOCEPHALIFORMES	1,67
Ophioclinidae	1,71 (7)
Ophiocomidae	6,92 (2)
Ophiocytiaceae	7,23 (5)
(Ophiodontidae)	1,78 (7)
OPHIOGLOSSALES	9,22
Ophiolepididae	6,92 (3)
OPHIUROIDEA	6,92
OPIDIOIDEI	1,72
OPISTHOBRANCHIATA	3,11
OPISTHOCOELE	5,09
Opisthocomidae	5,66 (5)
Opisthognathidae	1,70 (73)
Opisthorchiidae	6,27 (6)
(Oriathomi)	1,86
Opisthoproctidae	1,26 (1)
OPISTHOPROCTOIDEI	1,26
(Oplegnathidae)	1,70 (58)
(Oplichthyidae)	1,78 (10)
Orectolobidae	1,07 (1)
Orectolobini	1,07 (1)
Orestiini	1,57 (2)
(Orthagoriscidae)	1,91 (1)
ORTHOPTERA	6,69
Oscillatoriaceae	7,95 (1)
Osmoridae	1,23 (4)
Osmerini	1,23 (4)
(Osphronemidae)	1,76 (5)
(Ostariophysi, Plectospondyli)	1,37
Osteoglossidae	1,28 (2)
OSTEOGLOSSOIDEI	1,28
Ostraciidae	1,90 (1)
OSTRACIODIEI	1,90
(Ostraciontidae)	1,90 (1)
Ostracoberycidae	1,61 (6)
OSTRACODA	2,06
(Ostracodermi)	1,90
Ostreidae	3,16 (7)
Otariidae	4,06 (1)
Owstoniidae	1,70 (74)
Oxudercidae	1,70 (85)
(Oxylebidae)	1,78 (7)
Paedophoropodidae	3,09 (17)
Paguridae	2,29 (5)
Palaemonidae	2,28 (3)
PALAEOGNATHAE	5,51
Palamedidae	5,64 (2)
Palinuridae	2,29 (1)
Palmellaceae	7,04 (2)
PALPIGRADI	6,58

(Pampida)	1,76 (3)
Pandalidae	2,28 (4)
PANDANALES	9,51
Pandaridae	2,10 (21)
Pandoridae	3,18 (3)
(Pangasiidae)	1,41 (16)
Pantodontidae	1,29 (1)
PANTODONTOIDEI	1,29
(Paralichthyidae)	1,83 (1)
Paralichthodini	1,83 (2)
Paralichthyini	1,83 (1)
Paramyxinidae	1,03 (2)
(Parapercidae)	1,70 (76)
Parastenetriida	2,23 (11)
Paridae	5,79 (6)
PARIETALES	9,72
Pasiphaeidae	2,28 (8)
PASSERIFORMES	5,79
Pataecidae	1,78 (6)
PECORA	4,11
PECTINIBRANCHIATA	3,08
Pectinidae	3,16 (8)
(Pediculati)	1,94
PEDIPALPI	6,58
Pegasidae	1,97 (1)
PEGASIFORMES	1,97
Pelecanidae	5,62 (1)
PELECANIFORMES	5,62
PELECYPODA	
(Lamellibranchiata)	3,15
Pelobatidae	5,10 (1)
Pelomedusidae	5,31 (8)
Pempheridae	1,70 (43)
Penacidae	2,28 (1)
PENNALES	7,43
Pentapodidae	1,70 (95)
Peranemaceae	7,70 (3)
(Percesoces)	1,63
Percidae	1,70 (14)
PERCIFORMES	1,69
PERCOIDEI	1,70
Percophidae	1,70 (79)
Percopsidae	1,59 (1)
PERCOPSIDOIDEI	1,59
PERCOPSIFORMES	1,59
Peridicidae	5,66 (2)
Peridiniaceae	7,67 (2)
(Peridiniaceae)	7,61
(Peridinioida)	7,67
PERIDINIOIDEAE	7,67
Periophthalmidae	1,77 (3)
PERISPORIALES	8,56
PERISSODACTYLA	4,07
(Peristediidae)	1,78 (2)
Peristediini	1,78 (2)

Peronedyidae	1,71 (6)
PERONOSPORALES	8,40
Perophoridae	5,96 (4)
Petasidae	6,17 (5)
Petromyzonidae	1,02 (1)
PETROMYZONIFORMES	1,02
Petromyzonini	1,02 (1)
Petricolidae	3,17 (12)
PEZIZALES	8,65
PHACIDIALES	8,64
Phaeocapsaceae	7,52 (3)
PHAEOPHYCEAE	7,71
Phaeothamnionaceae	7,34 (2)
Phalacrocoracidae	5,62 (2)
PHALANGIIDA	6,59
PHALLALES	8,80
Phallostothidae	1,58 (2)
PHALLOSTETHIFORMES (Pharyngognathi, Malacopterygii)	1,47
Phasianidae	5,66 (3)
Philinidae	3,11 (6)
(Phinidae)	1,09 (3)
Phocidae	4,06 (3)
Phoenicopteridae	5,63 (2)
Pholadidae	3,17 (19)
Pholidae	1,71 (11)
PHOLIDATA	4,28
PHOMALES	8,92
PHORONIDEA	6,44
Photidae	2,24 (9)
Photocorynidae	1,96 (10)
Phractolaemidae	1,22 (4)
PHRACTOLAEMOIDEI	1,22
Phronimidae	2,24 (2)
PHYCOMYCETES	8,32
Phyllirhoidae	3,11 (21)
Phyllophoraceae	7,87 (15)
Phyllosiphonaceae	7,17 (8)
PHYSARALES	8,25
Physeteridae	4,22 (3)
Physidae	3,13 (5)
Picidae	5,78 (1)
PICIFORMES	5,78
PILOSA	4,26
Pimelodidae	1,41 (22)
PINNIPEDIA	4,06
Pinnotheridae	2,29 (12)
PIPERALES	9,63
Pipidae	5,09 (2)
Placotaceae	7,03 (4)
(Plagyodontidae)	1,32 (7)
Planariidae	6,24 (1)
Planorbidae	3,13 (3)
Plantaginaceae	9,86 (3)

PLASMIDIOPHORALES	8,24
(Platacidae)	1,70 (49)
Platacini	1,70 (49)
Platanistidae	4,22 (1)
PLATYHELMINTHES	6,23
Platycephalidae	1,78 (9)
(Playrhinidae)	1,10 (3)
Platysternidae	5,31 (5)
Plecoglossidae	1,23 (3)
PLECOPTERA	6,71
(Plecostei)	1,80
(Plectognathi)	1,88
Plesiopidae	1,70 (7)
Plethodontidae	5,05 (5)
Pleurobrachiidae	6,21 (1)
Pleurocapsaceae	7,94 (1)
PLEUROCAPSALES	7,94
Pleuroceratidae	3,10 (13)
Pleuronectidae	1,83 (2)
PLEURONECTIFORMES	1,81
PLEURONECTINI	1,83 (2)
PLEURONECTOIDEI	1,83
Pleurophoridae	3,17 (4)
Plocamiaceae	7,87 (10)
Plotosidae	1,41 (6)
PLUMBAGINALES	9,82
PODAXALES	8,79
PODOCOPA	2,07
Podolampaceae	7,67 (10)
Poeciliidae	1,57 (7)
Poeciliini	1,57 (7)
(Poecilioidei)	1,57
Poeciliopsini	1,57 (7)
Poecilopsettini	1,83 (2)
POGONOPHORA	
(Polyacanthidae)	1,76 (5)
Polyacanthonotini	1,46 (2)
Polyblepharidaceae	7,03 (3)
POLYCARPICAE	9,70
Polyceratidae	3,11 (14)
Polycentridae	1,70 (57)
POLYCHAETA	6,48
POLYCHAETA ERRANTIA	6,49
POLYCHAETA SEDENTARIA	6,50
Polycitoridae	5,96 (3)
POLYGONALES	9,66
Polykrikaceae	7,66 (3)
Polymixiidae	1,61 (1)
Polynemidae	1,66 (1)
POLYNEMIFORMES	1,66
Polyodontidae	1,17 (2)
Polyphemidae	2,05 (7)
POLYPLACOPHORA	3,03
Polypteridae	1,16 (1)
POLYPTERIFORMES	1,16

(Polytomidae)	7,03	[part]
Pomacentridae	1,70	(62)
Pomadasyidae	1,70	(36)
Pomatomidae	1,70	(20)
Pontederiaceae	9,44	(1)
Pontellidae	2,10	(5)
Porcellanidae	2,29	(24)
(Porcidae,		
Mystidae)	1,41	(8)
Porichthyini	1,93	(1)
PORIFERA	6,13	
Porphyridiaceae	7,82	(2)
Portunidae	2,29	(11)
Potamobiidae	2,29	(16)
Potamogetonaceae	9,43	(6)
Potamostrygonidae	1,10	(6)
Prasiolaceae	7,09	(1)
PRASIOLINEAE	7,09	
Priacanthidae	1,70	(11)
PRIMATES	4,29	
Primulaceae	9,83	(1)
PRIMULALES	9,83	
PRIONODESMACEA	3,16	
Pristidae	1,10	(2)
Pristiophoridae	1,09	(2)
Pristolepidae	1,70	(55)
PROBOSIDAE	4,13	
Procellaridae	5,61	(2)
PROCELLARIIFORMES	5,61	
Processidae	2,28	(12)
PROCOELA	5,11	
Proneomeniidae	3,02	(2)
Pronoctilucaceae	7,66	(1)
(Pronoctilucidae)	7,66	(1)
Prorocentraceae	7,63	(1)
PROSOBRANCHIATA	3,06	
PROTEALES	9,64	
PROTEIDA	5,04	
Proteidae	5,04	(1)
Proteocephalidae	6,30	(2)
Protoceratiaceae	7,67	(4)
PROTOCILIATA	6,10	
Protopteridae	1,14	(2)
Protosiphonaceae	7,17	(1)
PROTOZOA	6,00	
PROTURA	6,67	
Prymnesiaceae	7,32	(11)
Psettidae	1,70	(42)
Psettodidae	1,82	(1)
PSETTODIDEI	1,82	
Pseudocumidae	2,21	(5)
Pseudoplesiopidae	1,70	(6)
Pseudosphaeriaceae	8,55	(1)
Psilocephalini	1,89	(3)
Psilorhynchini	1,40	(2)

PSILOTALES	9,12
PSITTACIFORMES	5,71
PSOCOPTERA	6,74
Psychrolutidae	1,78 (18)
PTENOGLOSSA	3,09
(Pteraclidae)	1,70 (27)
PTERIDOPHYTA	9,11
Pteriidae	3,16 (6)
(Pterobranchia)	5,93
(Pteropsaridae)	1,70 (80)
Pterospermaceae	7,33 (3)
Pterotriissidae	1,21 (4)
PTERYGOTA	6,68
Ptilichthyidae	1,71 (14)
Ptilogonatidae	5,79 (17)
Ptychobothriidae	6,30 (5)
Ptychoderidae	5,92 (1)
PULMONATA	3,12
Pulvinulariaceae	7,96 (1)
Punctariaceae	7,72 (9)
PYCHNOGONIDA	6,63
(Pygidiidae)	1,41 (25)
Pyramidellidae	3,09 (4)
Pyrosomatidae	5,96 (11)
PYTHIALES	8,39
Pyuridae	5,96 (9)
RACHIGLOSSA	3,09
Rachycentridae	1,70 (22)
Rajidae	1,10 (4)
RAJIFORMES	1,10
Rallidae	5,67 (2)
Ranicipitini	1,48 (4)
Ranidae	5,12 (1)
Ranunculaceae	9,70 (1)
Regalecidae	1,55 (1)
Regulidae	5,79 (14)
REPTANTIA	2,29
REPTILES, AQUATIC	5,47
REPTILES, GEN.	5,30
REPTILES, MISC.	5,49
REPTILIA	5,30
Retropinnidae	1,23 (10)
Rhabdoniaceae	7,87 (7)
Rhachianectidae	4,23 (1)
(Rhachycentridae)	1,70 (22)
RHAMNALES	9,80
Rhamphichthyidae	1,39 (1)
(Rhamphocottidae)	1,78 (13)
RHEIFORMES	5,53
(Rhegnopteri)	1,66
Rhineodontini	1,07 (1)
(Rhinidae)	1,10 (1)
Rhinobatidae	1,10 (1)

Rhinochimaeridae	1,12 (2)	Scapanorhynchini	1,07 (2)
RHIZOCEPHALA	2,16	Scaphandridae	3,11 (3)
Rhizochrysidaceae	7,32 (12)	Scaphirhynchini	1,17 (1)
Rhizodinaceae	7,67 (12)	SCAPHOPODA	3,04
Rhizophyllidaceae	7,86 (7)	Scaridae	1,70 (65)
RHIZOPODA	6,03	Scatophagidae	1,70 (51)
Rhodomelaceae	7,89 (3)	Schilbeidae	1,41 (16)
RHODOPHYCEAE	7,81	Schindleriidae	1,71 (20)
Rhodophyllidaceae	7,87 (8)	Scheuchzeriaceae	9,43 (4)
Rhodosomatidae	5,96 (6)	(Schizomycetes)	8,01
Rhodymeniaceae	7,88 (2)	(Schizomycophyta)	8,01
RHODYMENIALES	7,88	Sciaenidae	1,70 (37)
RHOEADALES	9,71	SCITAMINEAE	9,48
Rhombini	1,83 (1)	SCLERODERMATALES	8,82
(Rhombosoleidae)	1,83 (2)	(Sclerodermi)	1,89
Rhombosoleini	1,83 (2)	Scomberesocidae	1,47 (2)
Rhyacichthyini	1,77 (1)	SCOMBERESOCOIDEI	1,47
RHYNCHOCEPHALIA	5,32	Scombridae	1,75 (1)
Ricciaceae	9,03 (1)	SCOMBROIDEI	1,75
Rissoellaceae	7,87 (6)	Scombropidae	1,70 (21)
Rissoidae	3,10 (4)	Scopelarchidae	1,32 (3)
Rivulariaceae	7,95 (4)	Scopelidae	1,32 (8)
RODENTIA	4,15	SCOPELIFORMES	1,32
Rondeletiidae	1,60 (2)	(Scorpaenichthyidae)	1,78 (13)
ROSALES	9,74	Scorpaenidae	1,78 (1)
ROTATORIA	6,37	Scorpidae	1,70 (45)
RUBIALES	9,89	SCORPIONIDA	6,58
Rutilarioideae	7,42 (4)	Scutellidae	6,93 (3)
		SCUTIBRANCHIATA	3,07
SACCHAROMYCETALES	8,52	(Scyhophori)	1,36
Saccobranchidae	1,41 (17)	Scyliorhinidae	1,08 (1)
Saccopharyngidae	1,35 (1)	SCYLIORHINOIDEI	1,08
SACCOPHARYNGIFORMES	1,35	Scyllaeidae	3,11 (12)
Sagartiidae	6,19 (3)	Scyllaridae	2,29 (15)
Salamandridae	5,05 (3)	(Scylliidae)	1,08 (1)
Salangidae	1,23 (9)	Scymnorhinini	1,09 (1)
SALICALES	9,60	SCYPHOZOA	6,18
SALIENTIA	5,07	Scytalinidae	1,71 (18)
Salmonidae	1,23 (1)	Scytonemataceae	7,95 (5)
Salmonini	1,23 (1)	Sobdeniaceae	7,87 (3)
SALMONOIDEI	1,23	SEDENTARIA /POLYCHAETA/	6,50
(Salmopercae)	1,59	SELAGINELLALES	9,15
(Salmopercae)	1,59	Selenastraceae	7,06 (5)
Salviniaceae	9,25 (2)	(Selenichthyes)	1,53
(Samaridae)	1,83 (2)	Semelidae	3,17 (13)
Samarini	1,83 (2)	Sepiidae	3,21 (2)
SANTALALES	9,65	Sepiolidae	3,21 (3)
SAPROLEGINALES	8,37	Sergestidae	2,28 (7)
SARCODINA	6,02	(Seriolidae)	1,70 (23)
Sargassaceae	7,80 (4)	SERPENTES	5,35
SAURIA	5,34	Serpulidae	6,50 (8)
(Sauridae)	1,32 (1)	Serranidae	1,70 (2)
Saxicavidae	3,17 (18)	Serrivomeridae	1,44 (1)
Scalpellidae	2,13 (1)	Sertulariidae	6,17 (1)
		Sichistiidae	1,70 (46)

Sididae	2,05 (1)
Siganidae	1,73 (3)
SIGANOIDEI	1,73
Sillaginidae	1,70(15)
Siluridae	1,41 (7)
SILUROIDEI	1,41
Simencholyidae	1,43 (3)
SIMPLICIDENTATA	4,16
SIPHONALES	7,17
Siphonodentaliidae	3,04 (2)
(Siphonognathidae)	1,70(64)
Siphononemataceae	7,93 (4)
SIRENIA	4,14
Sirenidae	5,06 (1)
Sisoridae	1,41(13)
Sittidae	5,79 (1)
Skeneidae	3,10 (6)
Soleidae	1,83 (3)
Soleini	1,83 (3)
Solemyacidae	3,16 (3)
Solenidae	3,17(16)
Solenognathini	1,51 (6)
Solenoidae	7,42 (2)
Solenostomidae	1,51 (5)
Solieriaceae	7,87 (5)
SOLPUGIDA	6,59
Soricidae	4,03 (2)
SPADICIFLORAE	9,50
Sparidae	1,70(39)
(Sparisomidae)	1,70(65)
Spermatocnaceae	7,72 (7)
SPERMATOPHYTA	9,30
Sphacelariaceae	7,78 (1)
SPHACELARIALES	7,78
Sphaerellaceae	7,03 (2)
SPHAERIALES	8,58
Sphaerococcaceae	7,87(11)
Sphaeromidae	2,23 (6)
Sphaeropleaceae	7,10 (1)
SPHAEROPLEINEAE	7,10
Sphagnaceae	9,07 (1)
SPHAGNALES	9,07
SPHENISCIFORMES	5,58
Sphyraenidae	1,64 (1)
SPHYRAENOIDEI	1,64
Sphyriidae	2,10(26)
Sphyrnidae	1,08 (3)
(Spinacidae)	1,09 (1)
Spionidae	5,60 (6)
Spiratellidae	3,11 (9)
Spirulidae	3,21 (1)
Splachnidiaceae	7,72 (8)
Spongiidae	6,15 (1)
SPOROCHNALES	7,75
SPOROZOA	6,05
Squalidae	1,09 (1)

SQUALIFORMES	1,09
Squalini	1,09 (1)
SQUALOIDEI	1,09
Squamariaceae	7,86 (8)
SQUAMATA	5,33
Squatinidae	1,09 (3)
SQUATINOIDEI	1,09
Squillidae	2,25 (1)
STEGOCEPHALIA	5,01
(Steinogeriidae)	1,70(27)
STEMONITALES	8,26
Stephanoberycidae	1,60 (1)
STEPHANOBERYCIFORMES	1,60
Stephidae	2,10(31)
Sternarchidae	1,39 (2)
Sternoptychidae	1,25 (2)
Sternopygini	1,39 (2)
Stichaeidae	1,71(10)
Stigonemataceae	7,96 (5)
STIGONEMATALES	7,96
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				ASE.08	Adriatic Sea	581320	581321
731	Estonian S.S.R.		581646			581790	581793
751	Ukrainian S.S.R.		581644			581830	
				ASE.09	Sea of Marmara	581258	581782
						581783	581784
						581786	581787

ASE.10	Black Sea	581228	581258
		581336	581339
		581696	581782
		581783	581786
		581787	581808
ASE.11	Sea of Azov		581589
I	INDOPACIFIC OCEAN	581330	581420
		581551	581554
IN	<u>Pacific, North</u>	581183	581324
		581342	581343
		581346	581544
		581545	581546
		581547	581550
		581552	581553
		581556	581558
		581562	581572
		581573	581576
		581577	581578
		581635	581636
		581829	581833
IN.02	Sea of Okhotsk		581689
IS	<u>Tropical Indo-</u> <u>pacific</u>	581195	581197
		581198	581337
ISW	Indian Ocean		581255
ISW.01	Red Sea		581651
ISEW	Indopacific, Central	581191	581322
		581323	581328
		581686	581812
ISEW.18	Coral Sea		581191
ISE	Pacific, South-east	581192	581733
P	POLAR SEAS		
PN	<u>Arctic Ocean</u>	581236	581396
		581436	
PSE.02	Tasman Sea		581557
PSEW	South Polar Seas	581220	581345
		581421	
L	INLAND SEAS AND INTER- TERRITORIAL LAKE SYSTEMS		
L.11	East African Lakes		581499
L.72	Caspian Sea	581219	581434
		581640	
L.75	L. Baikal	581586	581687

Herdman, H.F.P. & L.H. Pemberton (1958) 581843
Discovery Rep., 29:229-44
The reliability of deep-sea reversing thermometers

Observations over many years leave little doubt that deep-sea reversing thermometers, both of the protected & unprotected types, remain, with few exceptions, very reliable. Failures to show an accurate temperature are few, only 447 being noted out of a total of 21,858 observations.

FAO:hr M

Boycott, B.B. & J.Z. Young (1958) 581846
Anim.Behav., 6(1-2):45-52
Reversal of learned responses in Octopus vulgaris Lamarck

Experimental study of conditioned behaviour toward presented food (crabs).

FAO:sjh M

Barber, F.G. (1958) 581844
Progr.Rep.Pacif.Cst Stas, (110):3-5
On the dissolved oxygen content of the waters of the Hecate Region, B.C.

Observed occurrence of low O concentration known experimentally to be lethal to some fish may be cause of a seasonal migration of bottom fish out of the area studied.

FAO:sjh M

Vranovský, M. (1957) 581847
Biológia, 12:661-71
Niekoľko vírnikov (Rotatoria) z ryžových poli na Slovensku (Some rotifers from the rice-fields in Slovakia). En Ru De

First record of rare rotifers in southwestern and eastern Slovakia; discusses occurrence of Hexarthra fennica fennica in freshwater.

FAO:tjj F

Waldichuk, M. (1958) 581845
Progr.Rep.Pacif.Cst Stas, (110):6-12
Summer oceanography in Osborn Bay, B.C.
Report of survey, 5-10/9/55. Currents, temperatures, salinity, dissolved O.

FAO:sjh M

Onderiková, V. (1957) 581848
Biológia, 12:693-8
K potrave kaprov chovaných na ryžových poliach (The food of the reared carps in the rice fields). Ru De

Comparison of the food of K1 carp in the rice fields & in the ponds in the neighbourhood. Notes on the praxis of this culture in rice fields are also given.

FAO:tl F

Browning, E. (Comp.) (1958) 581849
Zool.Rec., 93(12):126 p.
Arachnida

Lists references to aquatic arachnids,
incl. pantopoda, & those parasitic on
other aquatic animals.

FAO:sjh

MF

Ax, P. (1957) 581852
Hidrobiol.Istanbul, 4B:64-9
Nerilla stygicola nov. spec., ein neuer
Archiannelide aus dem Küstongrundwasser
am Bosporus (A new Archiannelide from
the coastal ground water near Bosporus)

Description of Nerilla stygicola nov. sp.

FAO:tl

M

Ermin, R. (1957) 581850
Hidrobiol.Istanbul, 4B:47-9
Dr. Hüseyin Pektaş

Obituary & chronologically arranged list
of publications by this Turkish
oceanographer.

FAO:sjh

M

Nalbandoğlu, U. (1957) 581853
Hidrobiol.Istanbul, 4B:70-5
Über einem Bastard zwischen Rutilus
rutilus und Chalcalburnus chalcoides
(On a hybrid between Rutilus rutilus &
Chalcalburnus chalcoides)

Morphological description of the hybrid
as compared to the morphology of the
parents. The hybrid was found from Lake
Manyas.

FAO:tl

F

Uyguner, B. (1957) 581851
Hidrobiol.Istanbul, 4B:50-61
Le dosage du nitrite dans les eaux du
Bosphore, Dardanelles et Trébizonde.
Considérations sur la production biolo-
gique du nitrite et le cycle d'azote
(Concentration of nitrite in waters of
Bosphorus, Dardanelles & at Trabizon.
Considerations of biological production
of nitrite, & the nitrogen cycle)

Reports results of analysis made April,
1955-August 1956. Vertical & horizontal
variations in Black Sea & Mediterranean
compared.

FAO:sjh

M

Slastenenko, B.P. (1957) 581854
Hidrobiol.Istanbul, 4B:76-97
A list of natural fish hybrids of the
world

Lists by families 212 hybrid combinations
(134 in N. America, 78 in Europe & Asia)
& gives bibliographic references, &
locality. Only 30 are of marine or
brackish water fishes. Proposes design-
ation of natural hybrids by binominals
prefixed by X, as is botanical practice.

FAO:sjh

MF

<p>Acara, A. (1957) 581855 <u>Hidrobiol.Istanbul</u>, 4B:108-9 On the use of a shaking-machine for salinity analysis</p> <p>Ill. account of trial use of German instrument working of electromagnetic principle.</p> <p>FAO:sjh M</p>	<p>McCracken, H. (1957) 581858 <u>Doubleday & Co.</u>, New York, 312 p. Hunters of the stormy sea</p> <p>Popular history of the sea otter industry of the N. Pacific.</p> <p>:sjh M</p>
<p>Canada. Dominion Bureau of Statistics (1958) 581856 <u>Ottawa</u>, 34 p. <u>Fisheries statistics of Canada, 1955.</u> <u>En Fr</u></p> <p>Landings & value of products in 1946-55 by spp., type craft & gear & province; capital equipment in primary operations & processing, employment, exports & imports; bounties.</p> <p>FiB:sjh MF</p>	<p>Hedgpeth, J.W. (1958) 581859 <u>Quart.Rev.Biol.</u>, 33(1):65 Hunters of the stormy sea</p> <p>Review of 581858.</p> <p>FAO: M</p>
<p>Marcus, E. (1958) 581857 <u>Quart.Rev.Biol.</u>, 33(1):24-58 On the evolution of the animal <u>Phyla</u></p> <p>A comprehensive review, with particular references to marine invertebrates.</p> <p>FAO:sjh MF</p>	<p>Paynter, R.A. (Ed.) (1957) 581860 <u>Bull.Mus.comp.Zool.Harv.</u>, 116(4):193-298 Biological investigations in the Selva Lacandona, Chiapas, Mexico</p> <p>Incl. spp. lists of descriptions of vegetation around Laguna Ocotal (R.L. Dressler), mollusca (J.C. Bequaert) & fish (R.R. Miller).</p> <p>:sjh F</p>

<p>Hershkovitz, P. (1958) 581861 <u>Quart.Rev.Biol.</u>, 33(1):67 Biological investigations in the Selva Lacandona, Chiapas, Mexico</p> <p>Review of 581860.</p> <p>FAO: F</p>	<p>Glass, B.P. (1958) 581864 <u>Quart.Rev.Biol.</u>, 33(1):78-9 Vertebrates of the United States</p> <p>Review of 570150.</p> <p>FAO: MF</p>
<p>Romer, A.S. (1958) 581862 <u>Quart.Rev.Biol.</u>, 33(1):67-8 A review of the habitat of the earliest vertebrates</p> <p>Review of original article with the same title by Denison, R.H., (1956), <u>Fieldiana</u>, <u>Geol.</u>, 11(8).</p> <p>FAO: MF</p>	<p>Mansueti, R. (1958) 581865 <u>Quart.Rev.Biol.</u>, 33(1):79 A study of the sharks of the suborder Squaloida</p> <p>Review of 570129.</p> <p>FAO: M</p>
<p>Crafts, A.S., L. Machlis & 581863 J.G. Torrey (Ed.) (1957) <u>Annual Reviews, Palo Alto</u>, 8:477 p. Annual review of plant physiology</p> <p>Incl. chapters on experimental use of aquatic plants, especially in studying permeability & salt accumulation (W.J.V. Osterhout), mass culture of algae (H. Tamiya), physiological ecology (W.D. Billings), & photochemistry of chlorophyll (J.L. Rosenberg).</p> <p>:sjh MF</p>	<p>Kirtisingho, P. (1957) 581866 <u>Colombo</u>, 112 p. The amphibia of Ceylon</p> <p>Incl. descriptions of tadpoles & their habitats.</p> <p>:sjh F</p>

<p>Loveridge, A. & E.E. 581867 Williams (1957) <u>Bull.Mus.comp.Zool.Harv.</u>, 115(6):163-557 Revision of the African tortoises and turtles of the suborder Cryptodira</p> <p>Incl. synonymy, common names, ill., description, size, brooding, diet longevity, parasites & enemies, habitat, distribution of each sp. Morphology of skulls; keys. Index & bibliography.</p> <p>:sjh MF</p>	<p>Mansueti, R. (1958) 581870 <u>Quart.Rev.Biol.</u>, 33(1):82-3 Report of the Atlantic herring investigation Committee</p> <p>Review of 581869.</p> <p>FAO: M</p>
<p>Grobman, A.B. (1958) 581868 <u>Quart.Rev.Biol.</u>, 33(1):80 Revision of the African tortoises and turtles of the suborder Cryptodira</p> <p>Review of 581867.</p> <p>FAO: MF</p>	<p>Mansueti, R. (1958) 581871 <u>Quart.Rev.Biol.</u>, 33(1):88-9 The physiology of the pituitary gland of fishes</p> <p>Review of 580999.</p> <p>FAO: MF</p>
<p>Loim, A.H. & al. (1957) 581869 <u>Bull.Fish.Res.Bd Can.</u>, (3):317 p. Report of the Atlantic herring investigation Committee</p> <p>Exploration for herring, study of populations, contributions to biology, vertebral numbers & first year growth in relation to temperature, fatness, & various aspects of relevant hydrology.</p> <p>FAO:glk M</p>	<p>May, L. (1958) 581872 <u>Quart.Rev.Biol.</u>, 33(1):91 pH measurements</p> <p>Review of original article with the same title by Gold, V., 1956, <u>John Wiley & Sons, New York</u>, 125 p.</p> <p>FAO: F</p>

<p>Klots, E.B. (1958) 581873 <u>Quart.Rev.Biol.</u>, 33(1):75-6 Aquatic insects of California, with keys to North American genera and California species</p> <p>Review of 560021.</p> <p>FAO: F</p>	<p>Korhonen, E. (1957) 581876 <u>Fisk.Tidskr.Finl.</u>, 64:175-7 Miksi lahnat ovat pioniä ja laihoja? (Why are breams small and moager?)</p> <p>Notes on the size & growth of bream in various lakes & discussion of the overpopulation problem as reason for small-grown bream populations.</p> <p>FAO:tl F</p>
<p>Klots, E.B. (1958) 581874 <u>Quart.Rev.Biol.</u>, 33(1):76 Evolution and classification of the mountain caddisflies</p> <p>Review of 560023.</p> <p>FAO: F</p>	<p>Leitilä, N. (1957) 581877 <u>Fisk.Tidskr.Finl.</u>, 64:177-80 Sammakkomichet, uusi vedonalaisen elämän tutkimusmuoto (Frogmen, a new way for study of the subwater life)</p> <p>Description of the diving equipment, & the use of "frogmen" in fisheries investigation.</p> <p>FAO:tl MF</p>
<p>Pitkänen, H. (1957) 581875 <u>Fisk.Tidskr.Finl.</u>, 64:171-5 Troolipyynti Suomessa (Trawling in Finland)</p> <p>Development of trawling fleet in Finland, its use and catch results & notes on a new small pelagic trawl.</p> <p>FAO:tl MF</p>	<p>Wikgren, Bo-J. (1957) 581878 <u>Fisk.Tidskr.Finl.</u>, 64:180-3 Eräs miolipidkysely. (A questionnaire on opinions)</p> <p>Analysis of the answers on a questionnaire on various questions concerning fishing conditions & fisheries management in Finland.</p> <p>FAO:tl MF</p>

<p>Hintikka, V. (1957) 581879 <u>Fisk.Tidskr.Finl.</u>, 64:187-9 Vanhan kansan kalamiesten uskomuksia.III. (Wisdom of the old fishermen. III.)</p> <p>Description of the fishermen's beliefs & knowledges on the behaviour of fishes & tricks to be used for their catch.</p> <p>FAO:tl MF</p>	<p>Malmi, K. (1957) 581882 <u>Fisk.Tidskr.Finl.</u>, 64:193. Kokemuksia maatalousministeriön kockatiskoista (Experiences from the experimental traps of Ministry of Agriculture)</p> <p>Catching properties of various types of experimental traps.</p> <p>FAO:tl F</p>
<p>Hakola, T.P. (1957) 581880 <u>Fisk.Tidskr.Finl.</u>, 64:191 Niirijärven (<u>Salmo alpinus</u>) istutuksesta näsijärveen (On the transplantation of char (<u>Salmo alpinus</u>) into the lake Näsi(Järvi))</p> <p>Notes on the transplantation of char in Finland in earlier years & the general environmental requirements of char.</p> <p>FAO:tl F</p>	<p>Bard, J. (1958) 581883 <u>Yaounde</u>, 21 p. Petit guide du pisciculteur rural camerounais (Manual of fish-breeding in Cameroon)</p> <p>Elementary instructions on pond construction, departmental assistance, stocking, feeding, harvesting & pond fertilization.</p> <p>WAD:tjj F</p>
<p>H.A.K. (1957) 581881 <u>Fisk.Tidskr.Finl.</u>, 64:192 Superiojärven raudun istutukset (On the transplantation of lake trout from lake Superior (<u>Salvelinus namaycush</u>))</p> <p>Results of long transport of fry, & notes on the quantities & places where the trout has been transplanted in Finnish waters.</p> <p>FAO:tl F</p>	<p>Whitley, G.P. (1958) 581884 (<u>mimeo</u>), 40 p. List of type-specimens of recent fishes in the Australian Museum, Sydney</p> <p>Contents as per title.</p> <p>GLK:glk MF</p>

Verbolov, V.I. (1957) 581885
C.R.Acad.Sci.U.R.S.S., 112:307
(A contribution to the problem concerning
the currents of lake Baikal). Ru

F

Khlobovich, V.V. (1957) 581888
C.R.Acad.Sci.U.R.S.S., 112:542
(Some observations on frost resistance
in Polychaeta of the Kuril ridge). Ru

M

Nevosskii, E.N. (1957) 581886
C.R.Acad.Sci.U.R.S.S., 112:418
(The exploration of littoral deposits,
carried out with the aid of a vibro-
piston tube). Ru

M

Pozdniakov, Yu.F. (1957) 581889
C.R.Acad.Sci.U.R.S.S., 112:777
(On the fertility of the Barents sea
Mallotus villosus). Ru

Study of samples taken off W & E
Murmansk, 1954-56, gives relations
between lengths, weight, gonad weight
for the females, egg numbers. Review &
comparison with other literature.

:sjh

M

Shishkina, O.V. (1957) 581887
C.R.Acad.Sci.U.R.S.S., 112:470-3
(Interstitial waters of the Pacific
oceans and adjoining seas). Ru

Data on the chemical composition of
interstitial water in sediments in
different depth of water in various
localities and in different depth in the
sediment core (up to 12 m).

Starikova, N.D. (1957) 581890
C.R.Acad.Sci.U.R.S.S., 112:934
(The organic matter of bottom deposits
from certain reservoirs of the Moscow
channel). Ru

:tl

M

F

<p>Chularova, L.A. (1957) 581891 <u>C.R.Acad.Sci.U.R.S.S., 112:945</u> (A cytological & cytochemical investigation of the fertilization process in <u>Lampetra fluviatilis</u>). <u>Ru</u></p> <p style="text-align: right;">MF</p>	<p>Moiseev, P.A. (1957) 581894 <u>J.Acad.Sci.U.R.S.S., 27(1):72</u> Conference on fisheries research in the Western Pacific</p> <p style="text-align: right;">MF</p>
<p>Brodskii, K.A. & al. (1957) 581892 <u>C.R.Acad.Sci.U.R.S.S., 112:957</u> (On the distribution of plankton in the Indian sector of the Antarctic region (according to data of the first trip of the Complex Antarctic Expedition of the Academy of Sciences of the USSR). <u>Ru</u></p> <p style="text-align: right;">M</p>	<p>Gur'yanova, E.F. (1957) 581895 <u>J.Acad.Sci.U.R.S.S., 27(1):74</u> Marine hydrobiology in China</p> <p style="text-align: right;">M</p>
<p>Bulanzhe, Yu.D. (1957) 581893 <u>J.Acad.Sci.U.R.S.S., 27(1):55</u> Coordination of research in the programme of the International Geophysical Year</p> <p style="text-align: right;">M</p>	<p>Roginskii, Ya.Ya. (1957) 581896 <u>Zool.Zh., 36(1):151-7</u> (On the stability of the type of the body proportions characteristic of a species (Contribution to the adaptive role of the manifestation of the 'indefinite variability')). <u>Ru</u> <u>En</u></p> <p style="text-align: right;">MF</p>

Frost, F.E. (1957) 581897
U.S. Atomic Energy Comm. UCRL-4891, 22 p.
Radioactive waste processing and
disposal (1950-1957) - bibliography

M

Ahmad, N. (1957) 581900
Dacca, East Pakistan Government Press,
31 p.
Prawn and prawn fishery of East
Pakistan

M

U.S. Lake Survey (1958) 581898
Detroit, 19 p.
Survey of the northern and northwestern
lakes. Catalog of charts of the Great
Lakes and connecting waters also Lake
Champlain, New York canals, Minnesota-
Ontario border lakes

Contents as per title.

F

Columbia Basin Interagency 581901
Committee (1957)
Fishery Steering Committee, Portland, Or.
Columbia River Basin fishery program

F

Madsen, F.J. (1957) 581899
Dan. Rev. Game Biol., 3, pt. 2(19):81
On the food habits of some fish-eating
birds in Denmark: divers, grebes,
mergansers and auks

M

Portugal. Gabinete do Estudos 581902
das Pescas (1957)
Publ. Gabin. Estud. Pescas, (34):1-19
Resumo estatístico das pescas
Portuguesas, 1938-56 (Statistical
account of Portuguese fisheries, 1938-56)

Describes fisheries administrative
organization & gives tables & graphs of
landings by territories & spp. groups
(cod, sardines, whales, tuna, crustaceans
& molluscs); vessels, man-power, ship-
yard activities; fishing effort (trawl-
ing).

FAO:sjh

M

Böhlke, J.E. (1957) 581903
Notul.nat.Acad.Philad., (301):8 p.
A new blenny from the coast of western
Mexico

M

Kelcher, J.J. & B. Kooyman (1957) 581906
Winnipeg, Dep. Mines & nat. Resources,
Manitoba, 117 p.
Supplement to Hinks' "The fishes of
Manitoba"

F

Böhlke, J.E. (1957) 581904
Notul.nat.Acad.Philad., (295):8 p.
A new shallow-water brotulid fish from
the Great Bahama Bank

M

Moffett, A.W. & J.E. 581907
Randall (1957)
Publ.Mar.Lab.Univ.Miami, 57-22:18 p.
The Roger Firestone Tarpon Investigation

M

Cairns, J. (1957) 581905
Notul.nat.Acad.Philad., (299):12 p.
The effects of temperature and hardness
of water upon the toxicity of zinc to
the common bluegill (Lepomis macrochirus
Raf.)

F

Sundnes, G. (1957) 581908
Fiskeridir.Skr.Havundersøk, 11(9):10 p.
Notes on the energy metabolism of the
cod (Gadus callarias L.) and the coal-
fish (Gadus virens L.) in relation to
body size

Graphs of rates of oxygen consumption;
acclimation times, verification of
'surface rule'.

GLK:sjh

M

<p>Stoker, J.J. (1957) 581909 <u>Interscience Publishers, New York, 567 p.</u> Water waves; the mathematical theory with applications</p> <p style="text-align: right;">MF</p>	<p>Copland, S.J. (1957) 581912 <u>Proc.Linn.Soc.N.S.W., 82(383):9-108</u> Australian tree frogs of the genus <u>Hyla</u></p> <p>All 44 known continental spp. & sub-spp. of the genus <u>Hyla</u> are dealt with in a purely systematic way, but an attempt has been made to indicate at least interesting & important notes on ecology, colour in life, breeding habits & other matters not directly bearing on the present approach.</p> <p style="text-align: right;">GLK:chr F</p>
<p>Somerville, G.M. & L.M. 581910 Dickie (1957) <u>Circ.Atlant.biol.Sta., (30):4 p.</u> Offshore scallop explorations - 1957</p> <p>Prospecting by BARBARA JO for <u>Placopecten</u> <u>magollanicus</u> Gmelin off Nova Scotia (St. Pierre, Sable I, & other banks).</p> <p style="text-align: right;">FiB:sjh M</p>	<p>Kostoven, H.L. (1957) 581913 <u>Proc.Linn.Soc.N.S.W., 82(383):117-24</u> On the development of the crocodilian skull</p> <p>A description of an early, nearly complete, chondrocranium is presented & attention drawn to the absence of a basitrabecular process.</p> <p style="text-align: right;">GLK:chr F</p>
<p>Wise, J.P. (1957) 581911 <u>Res.Rep.U.S.Fish.Serv., (50):13 p.</u> Growth rate of Browns Bank haddock</p> <p>Determination of growth parameters by back-calculation for scale measurements of market & research vessel samples, 1942-54.</p> <p style="text-align: right;">FAO:sjh M</p>	<p>Trantor, D.J. (1957) 581914 <u>Aust.J.Sci., 19:230-1</u> Pearl culture in Australia</p> <p>Description of the implantation technique with illustration of instruments used, & preliminary account of experimental results.</p> <p style="text-align: right;">GLK:glk M</p>

O'Gower, A.K. (1957) 581915
Proc.Linn.Soc.N.S.W., 82(384):240-4
The influence of the surface on oviposition by Aedes aegypti (Linn.) (Diptera, Culicidae)

Preference for a free water surface was more important than low reflectance or rough texture in determining the attractiveness of an oviposition site.

GLK:hr

F

Mason, J. (1957) 581918
J.Mar.biol.Ass.U.K., 36:473-92
The age and growth of the scallop, Pecten maximus (L.), in Manx waters

Growth-rings on the shell of the scallop (Pecten maximus) are laid down annually, in spring, & so can be used to determine the age. Scallops grow from spring to December, & cease growing in winter; possible causes of the annual cessation of growth are discussed.

GLK:hr

M

Russell, F.S. (1957) 581916
J.Mar.biol.Ass.U.K., 36:445-7
On a new medusa, Krampella dubia n. g., n. sp.

A descriptive note of the sp.

GLK:hr

M

Boalch, G.T. (1957) 581919
J.Mar.biol.Ass.U.K.; 36:519-28
Marine algal zonation and substratum in Beer Bay, south-east Devon

The intertidal zonation was examined in relation to substratum by means of plane-table maps & transects. The dominance of Ulva lactuca on colonies of the reef-building worms Sabellaria alveolata was noted, but the distributions of Fucus vesiculosus, F. serratus, Gigartina stellata & Enteromorpha spp. showed no correlation with substratum.

GLK:hr

M

Corner, E.D.S. & B.W. Sparrow (1957) 581917
J.Mar.biol.Ass.U.K., 36:459-72
The modes of action of toxic agents. II. Factors influencing the toxicities of mercury compounds to certain crustacea

A study of the toxicities of mercuric chloride, mercuric iodide & methyl-, ethyl-, n-propyl-, n-butyl, n-amyl-, iso-propyl-, iso-amyl-, & phenylmercuric chlorides to larvae of the crustaceans Artemia salina & Elminius modestus.

GLK:hr

M

Nicol, J.A.C. (1957) 581920
J.Mar.biol.Ass.U.K., 36:529-38
Spectral composition of the light of polynoid worms

The spectral composition of the light of 4 spp. of polynoid worms has been measured, viz. Harmothoe longisetis, Gattyana cirrosa, Polynoe scolopendrina & Lagisca extenuata. The method involved the use of coloured spectral filters & 2 multiplier phototubes.

GLK:hr

M

Shelbourne, J.E. (1957) 581921
J.Mar.biol.Ass.U.K., 36:539-52
The feeding and condition of plaice larvae in good and bad plankton patches

Considers the development stages of the plaice, comparative abundance of plankton, diet of plaice larvae and the condition of transition stage larvae on a study of the problem of early mortalities of food fishes.

GLK:hr

Hart, T.J. (1957) 581924
J.Mar.biol.Ass.U.K., 36:593-7
Notes on practical methods for the study of marine diatoms

Notes on methods of cleaning & mounting marine frustules.

GLK:hr

Froeman, F.H. & F.H. Rigler (1957) 581922
J.Mar.biol.Ass.U.K., 36:553-67
The responses of Serobicularia plana (Da Costa) to osmotic pressure changes

The results of measurements of the osmotic pressure of the blood of the sp. when exposed to diluted sea water, & observations made on the behaviour of the animal when exposed to solutions of different osmotic pressure are discussed & referred to other lamellibranchs & other animals that respond to osmotic pressure changes.

GLK:hr

M

Naylor, E. (1957) 581925
J.Mar.biol.Ass.U.K., 36:599-602
The occurrence of Idotea metallica Bosc in British waters

Gives specific characteristics & geographical distribution of the sp.

GLK:hr

M

Kabata, Z. (1957) 581923
J.Mar.biol.Ass.U.K., 36:569-92
Lernaeocera obtusa n. sp., a hitherto undescribed parasite of the haddock (Gadus aeglefinus L.)

The fishes harbouring parasites of the genus Lernaeocera can be divided, according to the presence or absence of contact with the coastal waters, into inshore & offshore groups. L. branchialis parasites on cod & whiting distributed mainly in the coastal area & L. obtusa n. sp. parasites on haddock in offshore waters.

GLK:hr

M

Alexandrowicz, J.S. & H. Whitear (1957) 581926
J.Mar.biol.Ass., 36:603-28
Receptor elements in the coxal region of decapoda crustacea

In the 4th to 8th thoracic segments of decapod crustacea, at the bases of the pereopods, sensory organs of various kinds have been found. They have been observed in Homarus vulgaris, Astacus astacus, Palinurus vulgaris, Eupagurus bernhardus, Carcinus maenas, Maia squinado & described in greater detail for Homarus, Carcinus & Maia.

GLK:hr

M

Nicol, J.A.C. (1957) 581927
J.Mar.biol.Ass.U.K., 36:629-42
Spectral composition of the light of
Chaetopterus

The spectral composition of the light of the sp. has been measured by means of spectral filters & multiplier phototube. The spectral curve is compared with a human visibility curve (scotopic vision), a visibility curve for Limulus, & an absorption curve for fish visual purple. Luminous efficiencies, based on these curves, are calculated.

GLK:hr

M

Hanson, K.L. (1957) 581930
Copeia, (4):274-7
Movements, area of activity, and growth
of Rana bockschleri

A study of life history, considering area of activity, growth, spatial relations of individual frogs & their orientation with respect to the water's edge, the influence of temperature upon activity & substrate preference.

HR:hr

F

Parke, M. & D. Ballantino (1957) 581928
J.Mar.biol.Ass.U.K., 36:643-50
A new marine dinoflagellate: Exuviaella
mariae-lebouriae n. sp.

Gives diagnosis & description of the sp.

GLK:hr

M

Marok, M. (1957) 581931
Bamidesh, 9:27-8
Suggestions for improving the growing
system

Suggestions for rectifying faults in mixed stocking systems which led to the 1956 yield decreases in Kinnareth Co-operative Settlement.

WAD:sjh

F

Powell, H.T. (1957) 581929
J.Mar.biol.Ass.U.K., 36:663-93
Studies in the genus Fucus L. II.
Distribution and ecology of forms of
Fucus distichus L. emend. Powell in
Britain and Ireland

The distribution & ecology of subsp. anceps & odontatus of F. distichus L. emend. Powell (1957) in Britain & Ireland is described in detail, based on recent ecological surveys & critical examination of all past records.

GLK:hr

M

Walters, V. (1957) 581932
Copeia, (4):283-6
Alphostes scholanderi, a new sea bass
from the West Indies

A description of the sp.

HR:hr

M

Rood, R.J. (1957) 581933
Copeia, (4):286-90
Phases of the life history of the Rosy-
face shiner, Notropis rubellus, in
Northwestern Pennsylvania

Contains information on habitat, feeding
behaviour, food preferences & growth
rate & sex ratio.

HR:hr

F

Ward, J.W. (1957) 581936
Copeia, (4):295-8
The reproduction and early development
of the sea catfish, Galeichthys folis,
in the Biloxi (Mississippi) Bay

Deals with a study of the natural
history, reproduction, cleavage & early
embryology of the sp.

HR:hr

M

Lagler, K.F. & C. 581934
Steinmetz, Jr. (1957)
Copeia, (4):290-2
Characteristics and fertility of
experimentally produced sunfish hybrids,
Lepomis gibbosus × L. macrochirus

Considers fertility of the F₁ hybrid,
characters of F₁ compared with those
of parent species-stocks, & use of
hybrid sunfish in fishery management.

HR:hr

F

Woods, L.P. (1957) 581937
Copeia, (4):298-9
Beryx splendens Lowe in the Gulf of
Mexico

Contents as per title.

HR:hr

M

Starr, T.J. & W. Fosberg (1957) 581935
Copeia, (4):292-5
Filter paper electrophoresis of serum
proteins from sharks

A study of the blood serum protein
patterns of Scoliodon tetrac-novae,
Aprinodon isodon, Sphyrna diplana & S.
tiburo.

HR:hr

M

Warburton, B., C. Hubbs & 581938
D.W. Hagon (1957)
Copeia, (4):299-300
Reproductive behaviour of Gambusia
heterochir

Contents as per title.

HR:hr

F

Pow, P. (1957) 581939
Copeia, (4):300
Occurrence of young dolphin, Coryphaena
hippurus, in a Texas bay

Contents as per title.

HR:hr

M

Krumholz, L.A. (1957) 581942
Copeia, (4):302
Measurements of a large sharpnose
mackerel shark, Isurus oxyrinchus, from
Bimini, Bahamas

Contents as per title.

HR:hr

M

Krumholz, L.A. (1957) 581940
Copeia, (4):300-1
A record of the night shark, Hypoprion
signatus, from Bimini, Bahamas

Contents as per title.

HR:hr

M

Atz, J.W. & C.W. Coates (1957) 581943
Copeia, (4):302-3
A remarkable instance of parallelism
among teleost fishes

Contents as per title.

HR:hr

MF

Nelson, E.M. (1957) 581941
Copeia, (4):301-2
An early review article on the swim
bladder of fishes

Contents as per title.

HR:hr

MF

Bailey, R.M. (1957) 581944
Copeia, (4):303-4
Cichlaurus versus Cichlasoma as the name
for a genus of perciform fishes

Contents as per title.

HR:hr

F

Voss, N.A. (1957) 581945
Copeia, (4):304-5
Fishes of the family Gempylidae collected by the Bermuda Oceanographic Expedition

Contents as per title.

HR:hr

M

Manvillo, R.H. (1957) 581948
Copeia, (4):308-9
Amphibians and reptiles of Glacier National Park, Montana

Contents as per title.

HR:hr

F

Montreuil, P.L. (1957) 581946
Actualités mar., 1(2):3-5
The American lobster at the Magdalen Islands

Popular account of the biology of & fishery for Homarus americanus.

FAO:glk

M

Boschwitz, D. (1957) 581949
Copeia, (4):310-1
Thyroidless tadpoles of Polobates syriacus Boettger H.

Contents as per title.

HR:hr

F

Bragg, A.N. & W.N. Bragg (1957) 581947
Copeia, (4):307-8
The southern painted turtle in Oklahoma

Contents as per title.

HR:hr

F

Gibbs, R.H., Jr. (1957) 581950
Copeia, (4):311-2
The chorus frog, Pseudacris nigrita, at Plattsburgh, New York

Contents as per title.

HR:hr

F

Pow, P. (1957) 581939
Copeia, (4):300
Occurrence of young dolphin, Coryphaena
hippurus, in a Texas bay

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Krumholz, L.A. (1957) 581942
Copeia, (4):302
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Copeia, (4):302-3
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Nelson, E.M. (1957) 581941
Copeia, (4):301-2
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bladder of fishes

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Bailey, R.M. (1957) 581944
Copeia, (4):303-4
Cichlaurus versus Cichlasoma as the name
for a genus of perciform fishes

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Voss, N.A. (1957) 581945
Copeia, (4):304-5
Fishes of the family Gomyridae collect-
ed by the Bermuda Oceanographic
Expedition

Contents as per title.

HR:hr

M

Manville, R.H. (1957) 581948
Copeia, (4):308-9
Amphibians and reptiles of Glacier
National Park, Montana

Contents as per title.

HR:hr

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Montreuil, P.L. (1957) 581946
Actualités mar., 1(2):3-5
The American lobster at the Magdalen
Islands

Popular account of the biology of &
fishery for Homarus americanus.

FAO:glk

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Boschwitz, D. (1957) 581949
Copeia, (4):310-1
Thyroidless tadpoles of Polobatos
syriacus Boettger H.

Contents as per title.

HR:hr

F

Bragg, A.N. & W.N. Bragg (1957) 581947
Copeia, (4):307-8
The southern painted turtle in
Oklahoma

Contents as per title.

HR:hr

F

Gibbs, R.H., Jr. (1957) 581950
Copeia, (4):311-2
The chorus frog, Pseudacris nigrita, at
Plattsburgh, New York

Contents as per title.

HR:hr

F

Ewing, M. & W.L. Donn (1958) 581951
Science, 127:1159-62
A theory of ice ages II

Continuation of discussion of a theory that certain local terrestrial conditions caused Pleistocene glaciation relevant to oceanography (prevailing water temperatures) & maritime meteorology.

FAO:glk

MF

Hardman, W.H. & G.M. 581954
Southward (1957)
Rep.int.Pacif.Halib.Comm., (25):22-7
Investigations of small halibut in September, 1955

Account of exploratory voyage of trawler PHYLLIS CARLYLE. Maps of area studied, length composition & stomach contents of catches of Hippoglossus stenocephalus using fine meshed gear, species distribution of catches, haul by haul.

WAD:sjh

M

Komai, T. (1958) 581952
Science, 127:1327
Tatuo Aida, geneticist

Obituary & short biography of Japanese geneticist well-known for his studies of the freshwater fish Oryzias latipes.

FAO:sjh

F

Anonymous (1957) 581955
Nature, Lond., 180:465-6
Association of island marine laboratories

Note on the establishment of this organization by an international conference held April 1957 at Maguoy, Puerto Rico, of representatives of laboratories on islands in coral-reef area of tropical West Atlantic.

GLK:sjh

M

International Pacific Halibut Commission (1957) 581953
Rep.int.Pacif.Halib.Comm., (25):5-21
Regulation and investigation of the Pacific Halibut Fishery in 1956

Gives outline of historical background & reports on activities under loadings: regulations, statistics, catch per unit fishing effort, multiple open seasons, composition of catches, growth rate studies, tagging experiments, studies of sub-commercial sized halibut. Gives an appendix by W.H. Hardman & G.M. Southward (581954).

WAD:sjh

M

Mooney, J. & D.A. Webb (Ed.) (1957) 581956
Comm.brit.Ass.Advancement of Science,
Dublin, 254 p.
A view of Ireland

Incl. articles by M. de Valera & H.M. Parkes on marine algal flora of the country, by A.E.J. Went on inland fish & fisheries, C.F. Humphries & P.G. Kennedy on general fauna, each with a bibliography.

:sjh

MF



<p>Anonymous (1957) 581957 <u>Nature, Lond.</u>, 180:488 A view of Ireland</p> <p>Review of 581956.</p> <p>GLK: MF</p>	<p>Eliasson, E. (1957) 581960 <u>Nature, Lond.</u>, 180:512-3 Right-ventricle pressures and heart-rate in diving birds</p> <p>Experimental study of physiology of fish-eating birds at Runde, West Norway.</p> <p>GLK:sjh M</p>
<p>Hurst, H.E. (1957) 581958 <u>Nature, Lond.</u>, 180:494 A suggested statistical model of some time series which occur in nature</p> <p>A contribution to theory of storage relating to river discharge dams, cumulative temperatures etc.</p> <p>GLK:sjh MF</p>	<p>European Productivity Agency of the Organization for European Economic Co-operation (1957) 581961 <u>Paris</u>, 218 p. Air and water pollution</p> <p>MF</p>
<p>Gauld, D.T. (1957) 581959 <u>Nature, Lond.</u>, 180:510 Copulation in calanoid copepods</p> <p>Observations on <u>Centropages hamatus</u>, <u>Tomora longicornis</u>, <u>Eurytomora velox</u> & <u>Acartia clausi</u>.</p> <p>GLK:wad M</p>	<p>Parker, A. (1957) 581962 <u>Nature, Lond.</u>, 180:451 Air and water pollution</p> <p>Review of 581961.</p> <p>GLK: MF</p>

U.K. Department of Scientific 581963
& Industrial Research (1957)
London, H.M. Stationery Office, 314 p.
Report for the year 1955-56

Includes an account of research on
water pollution.

:wad

F

Bromaceker, J.Cl. de (1957) 581966
Nature, Lond., 180:755-6
Structure of the crust under the
eastern Mediterranean sea

Interpretation of the structure of the
bottom of the eastern Mediterranean
from the propagation of seismic shock
waves.

GLK:tl

M

Stommel, H. (1957) 581964
Nature, Lond., 180:733-4
The abyssal circulation of the ocean

A short review of the papers
presented on the symposium.

GLK:tl

M

Yonge, C.M. (1957) 581967
Nature, Lond., 180:765-6
Enigmonia acnigmatica Sowerby, a motile
anomiid (Saddle oyster)

A note on motility of the sp.

GLK:hr

M

Ramsbottom, J. (1957) 581965
Nature, Lond., 180:739-43
Linnaean anniversary celebrations

Reviews the contributions presented at
the symposium on "Systematics of To-day"
held as part of the celebrations. The
papers dealt with spp. of fish,
molluscs, algae, plants & other
organisms.

GLK:hr

MF

Powell, D.E. (1957) 581968
Comm.Fish.Rev., 19(6):1-9
North Pacific albacore tuna exploration
by the M/V JOHN N. COBB - 1956

Exploration of waters of the north-
eastern Pacific from northern California
to southern British Columbia, extending
out more than 800 miles offshore, fish-
ing with gill nets & albacore trolling
gear. The cruise plan, gear & fishing
methods are described. Catch results
are given & discussed with respect to
albacore size, & relation with water
temperature.

HR:glk

M

Ridonhour, R.L. (1957) 581969
Iowa St. Coll. J. Sci., 32(1):1-18
Northern pike, Esox lucius L.,
population of Clear Lake, Iowa

Growth, condition, feeding, movements
determined from catch measurements,
scale samples, & tagging experiments.

SJH:sjh

F

Korringa, P. (1957) 581972
Mem. Geol. Soc. Amer., 1(67):917-34
Lunar periodicity

Review of this phenomenon in animals,
with particular reference to spawning
of fishes Leuresthes tenuis & Hubbsiella
sarolina in California, of molluscs
Ostrea edulis & Spirorbis, & of worms
Platynereis dumerilii, Coratocephale
osawai, Odontosyllis phosphorea & Eunice
viridis, of chironomid Clunio marinus.

FiB:sjh

M

DiCostanzo, C.J. (1957) 581970
Iowa St. Coll. J. Sci., 32(1):19-34
Growth of bluegill, Lepomis macrochirus,
and pumpkinseed, L. gibbosus, of Clear
Lake, Iowa

Scale analysis of samples taken 1947-
1954; comparison of growth here & in
other waters; year-class strength;
weight-length relationships.

SJH:sjh

F

Tanaka, S. (1957) 581973
Bull. Tokai Fish. Res. Lab., (17):1-13
(An index to relative size of fish
population and effective fishing effort).
Ni In

Determination of total & effective trawl
fishing intensities in East China &
Yellow Seas, 1954-55, on Taius tumifrons,
Saurida tumbil, S. elongata & S. und-
squamis.

SJH:sjh

M

Buchholz, M. (1957) 581971
Proc. Iowa Acad. Sci., 64:589-600
Age and growth of river carpsucker
in Des Moines River, Iowa

Condition, growth & fecundity of
Carpionox carpio carpio.

SJH:sjh

F

Rood, R. & C.R. Glover (1957) 581974
Penn. Angler, 26(6):2-6
Layer lakes - a treatise on thermal
stratification and its effect on fish
and fishing

Simplified & popular description of the
phenomenon with special reference to
Pennsylvania waters.

WAD:wad

F

FAO/58/9/6635

Alvariño, A. (1957) 581975
Bol.Inst.osp.Oceanogr., (81):3-26
Estudio del zooplancton del
Mediterraneo occidental - Campaña del
XAUEN, en el verano del 1954 (Study
of the zooplankton of the western
Mediterranean - Campaign of the XAUEN
in the summer of 1954)

A list of spp. collected with information on their distribution, occurrence & abundance. Also lists the stations, time & depths of sampling.

FiB:hr

M

Traung, J.-O. (1957) 581978
Shipb.Shipp.Rec., Aug. 22-Sep. 19:3-7
On the stability of fishing vessels

Lists known casualties from insufficient stability, national specifications for fishing vessels; theoretical analysis of the problem, & reviews available data.

GLK:sjh

M

Alvariño, A. (1957) 581976
Bol.Inst.osp.Oceanogr., (82):3-51
Zooplancton del Atlantico ibérico -
Campaña del XAUEN en el verano del 1954
(Zooplankton of the Iberic Atlantic
Ocean - Campaign of the XAUEN during
the summer of 1954)

A list of spp. collected with information on their distribution, occurrence & abundance. Also lists the stations, time & depth of sampling.

FiB:hr

M

Anonymous (1957) 581979
Fish.News Lott.Aust., 16(9):9
Points from C.S.I.R.O. fisheries
report

Reports on investigations made on
Thyrsites atun, tuna, Lake Macquarie,
Western Australian estuarine fish &
Lates calcarifer.

GLK:hr

MF

Lufburrow, R.A. (1957) 581977
Woods Hole, Massachusetts, 7 p.
Bottom topography from CRAWFORD cruise
ten obtained for the International
Geophysical Year of 1957-58

Graphic presentation of bathymetry
three sections cross the Central
Atlantic Ocean between 8°15'N & 15°45'S.

TL:tl

M

Trantor, D.J. (1957) 581980
Fish.News Lott.Aust., 16(9):11, 25
Technique of pearl culture

Descriptions of the technique to induce
of pearl growth.

GLK:glk

M

Beach, N.W. (1957) 581981
Dissert. Abstr., 17(6):1416-7
A study of the planktonic rotifers of
the Ocqueoc River system, Presquo Isle
County, Michigan

F

Hubbs, C. & W.H. Brown (1957) 581984
Sthwst. Nat., 1(2):69-77
Dionda diaboli (Cyprinidae), a new
minnow from Texas

F

Forney, J.L. (1957) 581982
Dissert. Abstr., 17(6):1420
Propagation of bait fishes in New York
farm ponds

F

Hubbs, C. (1957) 581985
IF Scr. Texas Game & Fish Comm., (3):11 p.
A checklist of Texas fresh-water fishes

F

Taylor, W.R. (1957) 581983
Dissert. Abstr., 17(1):192
A revision of the genus Noturus rafi-
nosque with a contribution to the
classification of the North American
catfishes

F

Moody, H.L. (1957) 581986
Quart. J. Fla Acad. Sci., 20(1):21-88
A fisheries study of Lake Panasoffkee,
Florida

F

Strawn, R.K. (1957) 581987
Dissort. Abstr., 17(8):1842
The influence of environment on the
moristic counts of the fishes, Etheo-
stoma grahami and E. loquax

F

Sedgwick, D. (1957) 581990
Atlant. Salm. J., (1):33-6
A new approach to fish pass design

MF

Carlin, B. (1957) 581988
Atlant. Salm. J., (1):10
A smolt experiment on Sweden's river
Lagan

F

Outton, L.M. (1957) 581991
J. Elisha Mitchell sci. Soc., 73(1):68-84
A study of the life history of the
cyprinid fish Notropis coccogenis

F

Anonymous (1957) 581989
Atlant. Salm. J., (1):11-2
Sweden adopts artificial propagation

MF

Price, R.W. & D.R. Calsetta (1957) 581992
Proc. 10th Conf. Sthcast. Ass. Game Comm.,
Oct.:68-9
Pro-noxfish, a new synergised rotenone
formulation for fish control

MF

Barkuloo, J.M. (1957) 581993
Proc.10th Conf.Stheast.Ass.Game Comm.,
Oct.:75-7
Comparison of trawl sample results of
May, 1953, and May, 1956, on lako George,
St. Johns river, Florida

F

Dryer, W. & N.G. Bonson (1957) 581996
Proc.10th Conf.Stheast.Ass.Game Comm.,
Oct.:85-91
Observations on the influence of the
new Johnsonville steam plant on fish
and plankton populations

F

Tebo, L.B., Jr. (1957) 581994
Proc.10th Conf.Stheast.Ass.Game Comm.,
Oct.:77-80
Preliminary experiments on the use of
spaghotti tags

F

Counselman, J. (1957) 581997
Proc.10th Conf.Stheast.Ass.Game Comm.,
Oct.:119-23
A method for evaluating freshwater
sport fishing utilization

F

Snow, J.R. (1957) 581995
Proc.10th Conf.Stheast.Ass.Game Comm.,
Oct.:80-5
Algae control in warmwater hatchery
ponds

F

Wood, M.L. (1957) 581998
Proc.10th Conf.Stheast.Ass.Game Comm.,
Oct.:136-9
Biological aspects of stream pollution
control in Arkansas

F

Kolly, H.D. (1957) 581999
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:139-49
Preliminary studies on Tilapia
mossambica Potors relative to
experimantal pond culture

F

Swingle, H.S. (1957) 582002
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:160-2
Preliminary results on the commercial
production of channel catfish in ponds

F

Prathor, E.E. (1957) 582000
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:150-5
Experiments on the commercial production
of golden shiners

F

Swingle, H.S. (1957) 582003
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:162-5
Revised proceduroes for commercial
production of bigmouth buffalo fish in
ponds in the Southeast

F

Swingle, H.S. (1957) 582001
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:156-60
Commercial production of red cats
(Speckled bullheads) in ponds

F

Nelson, B. (1957) 582004
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:165-8
Propagation of channel catfish in
Arkansas

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Cartor, E.R. (1957) 582005
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:254-70
Investigations and management of the
Dowey lake fishery

F

Hulsey, A.H. (1957) 582008
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:285-9
Effects of a fall and winter drawdown on
a flood control lake

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Irwin, W.H. (1957) 582006
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:271-5
The management of large impoundments
for fish production

F

Ikozaki, F.M. & G.L. 582009
Hoffman (1957)
J.Parasit., 43:451-5
Gyrodactylus eucaliae n. sp. (Tromatoda:
monogenea) from the brook stickleback,
Eucalia inconstans

F

Fetterolf, C.M., Jr. (1957) 582007
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:275-84
Stocking as a management tool in
Tennessee reservoirs

F

Fischthal, J.H. (1957) 582010
J.Parasit., 43:484-7
Costraholmins laruci n.g., a digenetic
trematode from the muskollunge, Esox
m. masquinongy Mitchill

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Havolka, J. & M. 582011
Effenberger (1957)
Ann.Acad.tch6cosl.Agric., 2(5):421-4
Přiznaky při otravě ryb fenoly
(Symptoms in phenol poisoning of fish)

F

Robins, C.R. & R.R. Miller (1957) 582014
Calif.Fish Game, 43:213-33
Classification, variation, and distribution of the sculpins, genus Cottus, inhabiting pacific slope waters in California and southern Oregon, with a key to the species

The characters, distribution & geographic variation of C. tenuis, asperrimus, & princeps are treated & nomenclatural notes are given for klamathensis, alou-ticus, gulosus & asper; the relationship of the fish fauna of the upper Klamath & Pit rivers is emphasized in a section on zoogeography. A key to the spp. of

Betancourt, A.N. (1957) 582012
Banco Nacional de Fomento, Tegucigalpa,
136 p.
Investigacion y estudio de puertos
posqueros de Honduras, costa norte y
costa sur (Investigation and study
of fishing ports of Honduras, northern
and southern coasts)

A general survey containing information
on spp., fishing craft & gear,
commercial exploitation, shore facilities
etc.

FiB:hr

M

582014
(Card 2)
Cottus in the Sacramento & Klamath
drainages is presented.

HR:hr

F

Butler, R.L. (1957) 582013
Calif.Fish Game, 43:201-12
The development of a vinyl plastic sub-
cutaneous tag for trout

Description of tag, accessory tools &
method with notes on retention,
mortality & growth.

HR:tjj

F

Halstead, B.W. (1957) 582016
Mod.Arts Sci., 11(2):4 p.
Unexploited ocean resources

Notes on the present fishery resources
& increasing need of sea food supply.
Notes on the poisonous marine animals
& the possible use of marine algae in
pharmacology.

GLK:tl

M

FAO/58/9/6635

Anonymous (1957) 582017
Trade News, 9:3-6
Danish scining in Canada

Describes gear & methods.

:sjh

M

Hayes, O.B. & G. Roso (1957) 582020
J.Amor.diet.Ass., 33:26-9
Supplomentary food composition table

Gives calory, protein fat, carbohydrato, fatty acid values for cod, flounder, haddock, halibut, lobster, mackerol, oysters, Oncorhynchus, sardines, shrimp & tuna.

:sjh

MF

Smith, K.A. (1957) 582018
Comm.Fish.Rev., 19:6-10
An experimental air-pressure depth-meter for use with midwater trawls

Ill. description of instrument, its principle & use, & results of tests with it.

:sjh

M

McLollan, H.J. (1957) 582021
Fish.News Lett.Aust., 16:21-3
Hydrography can help fisherman

Account of how knowledge of physical variables & processes can be of value in research, management & fishing operations.

:sjh

M

Mason, J. & R.H. Baird (1957) 582019
World Fish., 6:35-7, 39
Scallops - and scallop dredges

Description of boats, gear, fishing methods & handling of catches of Pecten in British waters.

:sjh

M

Sardone, L.T. (1957) 582022
World Fish., 6:77-80
Australia develops tuna potential

Describes fishing areas, craft & methods for 11 spp. Markots & future development.

SJH:sjh

M

Anonymous (1957) 582023
World Fish., 6:53-8
Are synthetic nets the answer? - I.

Characteristics of nylon nets physical
properties, effectiveness, handling,
costs.

:sjh

M

Noel, H.S. (1957) 582026
World Fish., 6:62-5
Design and operation of the Thames
floating sprat trawl

Specification, craft requirements, the
operation & hauling of net; series of
illustrative photographs & drawings.

SJH:sjh

M

Anonymous (1957) 582024
World Fish., 6:34-8, 43
Are synthetic nets the answer? - II.

Continuation of 582023. Use of nylon in
purse seines, bottom trawls & mid-water
trawls.

:sjh

M

Moulongracht, P.V. (1957) 582027
West.Fish., 55:20-2
The controllable pitch propeller: from
Denmark comes a wheel especially
designed for fishing

The controllable pitch propeller now
is being used almost exclusively in
vessels of the large Scandinavian fish-
ing fleets, because it offers great
advantages, particularly under varying
load & speed conditions.

:sjh

M

Garner, J. (1957) 582025
World Fish., 6:87-8
The wire working gear of the granton
trawl

Ill. description of gear & its use.

:sjh

M

Anonymous (1957) 582028
Norweg.Fish.News, 4:7-8
Aluminum in trawlers

Use of aluminum alloys in shipbuilding
has greatly increased as a result of the
introduction of new alloys able to with-
stand exacting marine conditions.

:sjh

M

Schantz, E.J. & al. (1957) 582029
J.Amer.chem.Soc., 79:5230-5
Paralytic shellfish poison. VI. A
procedure for the isolation and
purification of the poison from toxic
clam and mussel tissues

M

Noel, H.S. (1957) 582032
World Fish., 6:51-5
Shrimps and shrimp methods in the U.K.

M

Mold, J.D. & al. (1957) 582030
J.Amer.chem.Soc., 79:5235-8
Paralytic shellfish poison. VII.
Evidence for the purity of the poison
isolated from toxic clams and mussels

M

Anonymous (1957) 582033
Chem.Engng News, 35:90
Outwitting the marine boror

M

Tomlinson, N. & R.A. 582031
MacLeod (1957)
Arch.Biochem., 70:477-90
Nutrition and metabolism of marine
bacteria. V. The inhibition of growth
of a marine bacterium by amino acids and
the development of resistant strains

Oxidation by & utilization of 21 amino
acids as the sole carbon or nitrogen
source for the growth of a specific
marine bacterium with simple nutritional
requirements has been investigated.

:sjh

M

Callanan, M.J., W.R. Carroll & 582034
E.R. Mitchell (1957)
J.biol.Chem., 229:279-87
Physical and chemical properties of
protamine from the sperm of salmon
(Oncorhynchus tshawytscha)

M

Larsson, K.-H. (1957) 582035
Canad. Fisherm., 44:7,9,11
Scandinavian experience with midwater
trawling

M

Barraclough, W.E. & A.W.H. 582038
Noodlór (1957)
Canad. Fisherm., 44:3,5,11
Development of a new herring trawl for
use in midwater or on the bottom

M

Anonymous (1958) 582036
World Fish., 7:38
The 'Exocet' trawl device - Gear gives
lift to headline in all conditions

M

Garnor, J. (1957) 582039
World Fish., 6:66-7
The granton trawl 9

M

King-Webster, W.A. (1958) 582037
World Fish., 7:62-4
The arrowhead fish pot - Tropical gear
which has possibilities in northern
waters

M

Taylor, A.R.A. (1957) 582040
Progr. Rep. Atl. Cst Sta., (67):3-5
A survey of Irish moss on Grand Manan in
1955

Distribution & abundance of Chondrus
crispus & Gigartina stellata on a New
Brunswick Island.

FAO:sjh

M

Griffiths, D.E., J.F. Morrison & A.H. Ennor (1957) 582041
Biochem.J., 65:612-7
The distribution of guanidines, phosphagens and N-amidino phosphokinases in echinoids

M

Swodmark, B. & G. Teissier (1958) 582044
C.R.Acad.Sci., Paris, 247(1):133-5
Armorhydra janowiczii, n. g., n. sp., hydroméduse benthique (Armorhydra janowiczii, n. g., n. sp., a benthic hydromodusa)

A short ill. description.

FAO:sjh

M

Tocri, A.E., M.E. Loughlin & D. Josselyn (1957) 582042
Food Res., 22:145-50
Nutritive value of fish - I. Nicotinic acid, riboflavin, vitamin B₁₂, and amino acids of various salt-water species

M

Thouveny, Y. (1958) 582045
C.R.Acad.Sci., Paris, 247(1):137-9
Sur l'origine des tissus dans la régénération caudale de Polydora flava (Clap.) (Annélide polychète) (On the origin of tissues in the caudal regeneration of Polydora flava (Clap.) (Polychaete annolid))

A short note on a histological study.

FAO:sjh

M

Bourcart, J. & al. (1958) 582043
C.R.Acad.Sci., Paris, 247(1):116-8
Les sédiments profonds au large de la côte niçoise (The deep sediments off the coast of Nice)

A note on their structure & composition as determined during a traverse by CALYPSO from Nice to Calvi, at 2200 - 2600 m.

FAO:sjh

M

Aboloos, M. (1958) 582046
C.R.Acad.Sci., Paris, 247(1):139-41
Sur la 'dominance' de la bouche des Actinies (On the 'dominance' of the mouth of Actinians)

Short report on experiments on reconstitution of mouth & pharynx of Actinia equina L.

FAO:sjh

M

Mugard, H. & R. Renaud. (1958) 582047
C.R.Acad.Sci., Paris, 247(1):144-7
Etude de l'effet des ultrasons sur
Paramocium caudatum (Study of the
effect of ultrasound on Paramocium
caudatum)

Report of experiments to determine
survival time as a function of power.

FAO:sjh

F

Thomas, J.B. (1958) 582050
Endeavour, 17(67):156-61
Chloroplast structure and function

By combining electron microscopy with
other physical & chemical techniques
considerable progress has been made in
localizing the photosynthetic centres
of plant cell. These methods & some of
the results are reviewed here with
special reference to studies of
Elodea & Nitzschia.

GLK:sjh

MF

Deacon, G.E.R. (1958) 582048
Endeavour, 17(67):134-9
Ocean waves

An ill. account of the development of
methods & instruments for wave analysis,
with a note on recent advances in this
field.

GLK:sjh

M

Walters, V. (1957) 582051
Copeia, (4):316
Ryby Bassaina Amura. Itogi Amurskoi
ikhtiologicheskoi okspoditsii 1945-49
(Fishes of the Amur basin). En

Review of the original article with
the same title by Nikolskii, G.V., 1956,
Akademiia Nauk SSSR, Moscow, 551 p.

F

Salt, G. (1958) 582049
Endeavour, 17(67):145-8
Parasite behaviour and the control of
insect pests

A short ill. article showing how know-
ledge of animal behaviour can help in
the practical application of findings
from studies of population dynamics.

GLK:sjh

MF

Johnson, M.W. & al. (1957) 582052
Invest.Rep.Minn.Bur.Res.Plan., (178):10p.
Status of the northern pike fishery in
Minnesota

A resumé of fishery information on
Esox lucius in this state, with
suggestion for management.

WAD:wad

F

Blanch, G.E., C.V. Plath & P. Tavaranusorn (1957) 582053
Bangkok, 82 p.
Economic survey of Platu salting industry

Includes short review of catch statistics, etc. of Rastrollinger kanagurta in Thailand.

GLK:sjh

M

Alikunhi, K.H. (1957) 582056
Fm Bull., Now Delhi, (20):144 p.
Fish culture in India

An extensive booklet describing principles & practices with discussions on cultivable waters & spp., pond ecology, cultural techniques, farm requisites & a glossary.

GLK:tjj

F

Pickford, G.E. & B. Kosto (1957) 582054
Endocrinology, 61(2):177-96
Hormonal induction of melanogenesis in hypophysectomized killifish (Fundulus heteroclitus)

Ill. account of experiments including regular injection of these fish over a period with Alpha corticotropin, prolactin & intermedin. Effect of light conditions on the results.

WAD:sjh

F

Thomson, J.M. (1957) 582057
Fish.Bull.W.Aust., (7):13 p.
The food of western Australian estuarine fish

Stomach contents analysis of 17 spp., comparative food preferences; spp. composition of diet, seasonal & regional variations.

GLK:sjh

MF

Phillips, J.B. (1957) 582055
Fish Bull., Sacramento, (104):158 p.
A review of the rockfishes of California (Family Scorpaenidae)

Contains descriptions of all the spp. comprising the family Scorpaenidae in California waters together with keys & photographs.

GLK:hr


M

Morrow, J.E. (1957) 582058
Postilla, (29):10 p.
A redefinition of the subspecies of Fodiator acutus

Analysis of characteristics of 11 Atlantic & 54 Pacific specimens of Fodiator acutus showed that the 2 sub-spp. F. a. acutus & F. a. pacificus could not be distinguished on the basis of the original diagnosis, but that such distinction could be made on the basis of the eye & the snout expressed as a percentage of head length.

GLK:hr

M

<p>Magnússon, J. (1957) 582059 <u>Aogir</u>, (17 & 22):10 p. Fiskimidalcitir 1957 (Exploration for fishing grounds). En</p> <p>Summary of the results of 2 cruises in 1957 for exploration of new fishing grounds for redfish on the continental slopes of East Greenland and West Iceland.</p> <p>FiB:tl M</p>	<p>Süberkrüb, F. (1957) 582062 <u>Allg.FischwirtschaftZtg.</u>, 38(21/9/57):25-6 Seitenscherbretter für polagische Schleppnetze (Otter board for polagic trawl)</p> <p>Description of the board construction.</p>  <p>SJH:tl M</p>
<p>Bergmann, W., J.C. Watkins & 582060 M.F. Stempion, Jr. (1957) <u>J.org.Chem.</u>, 22:1308-13 Contributions to the study of marine products. XLV. Sponge nucleic acids</p> <p>Nucleic acids have been isolated from different species of sponges, & all have been degraded to the nucleosides.</p> <p>FiB:tl M</p>	<p>Schärfe, J. (1957) 582063 <u>Allg.FischwirtschaftZtg.</u>, 38(21/9/57):13-8 Technische Fortschritte in der Fischortung (Technical advances in detection of fish)</p> <p>Review of the technical improvements on echosounders, especially on small types & on recording devices.</p> <p>SJH:tl M</p>
<p>Bergmann, W. & M.F. 582061 Stempion, Jr (1957) <u>J.org.Chem.</u>, 22:1575-7 Contributions to the study of marine products. XLVIII. The nucleosides of sponges. V. The synthesis of spongosine</p> <p>Spongosine has been synthesized by 2 different methods & shown to be 9-b-D- ribofuranosyl-2-methoxyadenine.</p> <p>FiB:tl M</p>	<p>Tambs-Lyche, H. (1957) 582064 <u>Publ.biol.Sta., Bergen</u>, 20:32 p. Daily observations of surface temperature and salinity at the Biological Station during 1951 and 1952</p> <p>Daily records for 2 years & discussions on the causes of the daily, seasonal & year-to-year variations of surface salinities & temperatures in Raunefjorden near Bergen, Norway.</p> <p>GLK:tl M</p>

Merkens, J.C. (1957) 582065
Lab. Pract., 6(8):456-9
Controlled aqueous environments for
bioassay

An apparatus has been constructed by
which the temperature, pH value,
concentration of dissolved oxygen, &
concentration of poison in water supplied
to 6 specially designed aquaria can be
varied independently with very little
manual attention.

SJH:tl

F

Meyer-Waarden, P.F. (1957) 582068
Allg. Fischwirtschaftztg., 38(21/9/57):19-21
Die Elektrofischerrei (Electrical
fishing)

Short ill. review with reference to
discussion of this subject at FAO Fishing
Gear Congress in Hamburg, 1957.

SJH:sjh

MF

Lin, S.Y. (1957) 582066
Rep. FAO/ETAP, (574):48 p.
Informe al Gobierno de Guatemala sobre
el fomento de la pesca continental
(Report to the Government of Guatemala
on the development of inland fisheries)

Reports on general economy, physiography,
types of water bodies, ichthyological
fauna, fisheries exploitation & fish-
culture trials.

GLK:hr

F

Lobell, M.J. (1957) 582069
México, 195 p.
Métodos y artes pesqueros (Fishing
methods and gear)

Lectures given at the 1st Latin
American Fisheries Training Center on
types of fishing boats, gear & methods.

SJH:hr

MF

D'Ancona, U. (1957) 582067
C.R. Acad. Sci., Paris, 245:262-4
La base génétique et l'influence du
milieu sur la différenciation sexuelle
de l'anguille (The genetic basis and
the environment influence on sexual
differentiation of the eel)

Environment influences in eels could
super-impose to the genetic determination
of the sexes.

GLK:hr

MF

Monteiro, R. (1957) 582070
Brotéria, 26(2):53-74
O problema do aproveitamento e
conservação dos recursos pesqueiros
(The problem of exploitation and conserva-
tion of fishery resources)

An essay on the interdependence of biology,
oceanography, meteorology, economics,
statistics & fisheries technology on the
scientific investigation & exploitation
of marine fishery resources.

HR:hr

M

<p>Monzel, R.W. (1957) 582071 <u>ASB Bull.</u>, 4(4):51-4 Marine biology of Alligator Harbor, Florida</p> <p>Short review of the species, plants & animals found in Alligator Harbor & notes on their relative abundance.</p> <p>GLK:tl M</p>	<p>Anonymous (1957) 582074 <u>Norweg. Fish. News</u>, 4(3):19 The Bergen Nautik Log Type D</p> <p>Specification of this instrument.</p> <p>SJH:sjh M</p>
<p>Wood, P.C. (1957) 582072 <u>Publ. Hlth, Lond.</u>, 1957:3 p. The cleansing of oysters</p> <p>Discussion of methods used & account of experimental work to analyse the influence of water temperature on the cleansing process.</p> <p>GLK:glk MF</p>	<p>Sellaog, J. (1957) 582075 <u>Norweg. Fish. News</u>, 4(3):20-1 The problems of protection of fish stocks in relation to the Norwegian fisheries</p> <p>A short review, dealing with International Fisheries Convention (1946) & the proposed new one for the N.E. Atlantic.</p> <p>SJH:sjh M</p>
<p>Johnson, W.C. (1957) 582073 <u>Adm. Rep. Inl. Fish. Calif.</u>, (57-12):6 p. Sampling fishing success by postal card questionnaires at lake Merced, San Francisco county, 1956</p> <p>A random sample of the seasonal permits (required to fish this trout lake) sent questionnaires of which a portion could be checked against boat livery records for accuracy.</p> <p>WAD:wad F</p>	<p>Anonymous (1957) 582076 <u>Norweg. Fish. News</u>, 4(3):22 HELLAND HANSEN, the new research vessel of Geophysical Institute, Bergen</p> <p>Short ill. description of the vessel & some of its equipment.</p> <p>SJH:sjh M</p>

Hunger, H. (1957) 582077
Allg.FischwirtschaftZtg., 38(21/9/57):27-9
 Das Unterwasser-Fernsehen und seine
 Bedeutung für die Fischeri (Under-
 water television and its use for
 fisheries)

Short ill. account of some kinds of
 equipment.

SJms:sjh M

Moiseov, P.A. (1957) 582080
J.Acad.Sci.U.R.S.S., (1):72-4
 Mezhdunarodnoe sotrudnichestvo gidro-
 biologov. Soveshchanie po rybokhoziaist-
 vennom issledovaniyam v zapadnoi chasti
 tikhogo okeana (International co-
 operation of hydrobiologists.
 Conference on investigations in
 Fisheries economy in the western part
 of the Pacific Ocean)

A short report.

GLK:sjh M

Shuloykin, V.V. (1957) 582078
Bull.Acad.Sci.U.R.S.S., (Géogr.)(11):
 1366-83
 (Soviet marine physics over 40 years).
Ru

Review of the Russian investigations &
 the principal results on heat balance &
 thermodynamics of the oceans & the air;
 dynamics of the ocean currents, prediction
 of waves, optical studios in the sea &
 studios of surface films.

:tl M

Gur'ianova, E.F. (1957) 582081
J.Acad.Sci.U.R.S.S., (1):74-7
 Morskaiia gidrobiologiiia v Kitae
 (Marine hydrobiology in China)

A short report.

GLK:sjh M

Anonymous (1957) 582079
 (mimeo):11 p.
 Soviet marine physics over 40 years
 English translation of 582078.

FIB: M
 FAO/58/9/6635

Gizonko, A.I. (1957) 582082
 Paper presented at the Conference of
Siberian zoologists, 25-28 Nov., 1957,
Novosibirsk
 Fotopanoramicheskii metod ucheta
 chislennosti morskikh kotikov na ostrovo
 Tiulon'om (Photo-panoramic method
 for estimating the number of fur-seals
 on the Tiulonii island)

Deals with one of the new methods of
 studying commercial animals.

:go M

<p>Stroganov, S.U. & K.T. 582083 Iurlov (1958) <u>Izv.sib.Otd.Akad.Nauk SSSR</u>, (1):152-4 Sovoshchanie zoologov Sibiri (Conference of Siberian zoologists) Review of the Conference, including A.I. Gizonko's paper (582082).</p> <p>FAO: M</p>	<p>Wikgren, Bo-J. (1957) 582086 <u>Fisk.Tidskr.Finl.</u>, 1957:22-5 Sikmärkningar (Tagging of whitofish) Notes on percentage of recapture & migrations of <u>Coregonus nasus</u> & <u>C.</u> <u>lavaretus</u> along the Finnish coast.</p> <p>FiB:tl MF</p>
<p>Votintsov, K.K. (1958) 582084 <u>Izv.sib.Otd.Akad.Nauk SSSR</u>, (2):87-98 Nekotorye itogi gidrokhimicheskikh isslodovaniy Baikala (Certain results of hydro-chemical research in the lake Baikal) Description of the chemical analysis & water behaviour at different depths, seasons & areas of the lake.</p> <p>FAO:go F</p>	<p>Paes-da Franca, M.L. (1957) 582087 <u>Ann.Jta Invest.Ultramar</u>, 10:(2):39 p. Contribuição para o conhecimento da fauna malacológica de Angola - Gasteró- podos testáceos (Contribution to the knowledge of the malacologic fauna of Angola - Gastropodos testacea) A catalogue encompassing 25 families, 37 genera & 55 spp.</p> <p>FiB:hr M</p>
<p>Wikgren, Bo-J. (1957) 582085 <u>Fisk.Tidskr.Finl.</u>, 1957:15-8 Om ekolodets användnings-möjligheter (On the possibilities for use of echo- sounder) Some results of herring scouting with echosounder in Finnish coastal waters & notes on the possible use of small echosounders in coastal & inland fisheries.</p> <p>FiB:tl MF</p>	<p>Pesonen, T., A. Tuominen & 582088 E. Halme (1957) <u>Turkistalous</u>, 5B:8 p. Strömmingens fetthalt under olika årstider och på olika fiskeområden (The fat content of herring during different seasons and different fishing districts) Data on the variations of fat content of Baltic herring along Finnish coast.</p> <p>FiB:tl MF</p>

d'Alarçao, J. (1957) 582089
FAO, Rome, 102 p.

Informe sumario sobre la industria de la
pesca marítima en la República Argentina
(Summary report on the marine fishery
industry of the Republic of Argentina)

An economic analysis with a section on
marine living aquatic resources.

SJH:hr

M

U.N. Department of Economic & 582092
Social Affairs (1957)

In "New sources of energy and economic
development", by U.N. Department of
Economic & Social Affairs, New York, Pt.2:
63-75

Tidal energy

Review of present status of knowledge of
this subject; characteristics of tides;
utilization techniques; prospective
development & recommendations to effect
this. Short annotated bibliography on
pp. 146-9 of same volume.

SJH:sjh

M

National Institute of 582090
Oceanography (1957)
(mimeo), 3 p.

On the distribution of plankton in the
Indian sector of the Antarctic region

English translation of 582091.

FAO:

M

U.N. Department of Economic & 582093
Social Affairs (1957)

In "New sources of energy and economic
development", by U.N. Department of
Economic & Social Affairs, New York, Pt.2:
99-115

Thermal energy of the seas

Review of present state of knowledge of
this subject; utilization techniques;
geological factors; economic factors;
prospective development (availability of
sites, natural & technological factors)
& recommendations for effecting this.
Short annotated bibliography on p. 150
of same volume.

SJH:sjh

M

Brodsky, K.A. & M.E. 582091
Vinogradov (1957)
C.R.Acad.Sci.U.R.S.S., 112(5)

(On the distribution of plankton in the
Indian sector of the Antarctic region).

Ru

Quantitative & qualitative distribution
of phyto- & zoo-plankton. Quantitative
distribution within depth given.

:tl

M

Drinnan, R.E. & H.A. Cole (1957) 582094
Nat.in Wales, 3(4):499-503

Oystercatchers (Haematopus ostralogus) as
posts of cockle and mussel beds

Summarizes the results of investigations
already made of the feeding of oyster-
catchers, & describes the methods
employed in studying the problem.

GLK:hr

M

Conseil Permanent International 582095
pour l'Exploration de la Mer (1957)
Copenhague, 51 p.
Bull.statist.Pêch.marit., Coponh., 40, 1955

Tables of catches (quantity & value) &
fish power & effort by spp., country,
area, type of vessel & gear, during the
year.

SJH:sjh

MF

Moseck, G. (1957) 582098
Jber.dtsch.Fisch., (1956):7-24
Die Fischwirtschaftspolitik im Jahre
1956 (The economic policy of
fisheries in the year 1956). En

Notes on international fishing rights,
development of fisheries in the world
& in West Germany; landings imports-
exports & consumption; values & costs
of production; numbers of fishermen &
vessels.

FiB:tl

M

Moiseev, P.A. (1957) 582096
J.Acad.Sci.U.R.S.S., (11):129-32
Nauchnoe sotrudnichestvo chetyrekh stran
(Koordinatsiia rybokhoziaistvennykh
issledovaniï SSSR, Kitaia, Korei i
V'etnama) (Scientific cooperation of
4 countries (Coordination of investiga-
tions on fishery economics carried out
by URSS, the Chinese Republic, Korea &
Vietnam))

A short description of the activities
of the Commission for Fisheries Research
in the West Pacific.

SJH:sjh

MF

Hass, G. (1957) 582099
Jber.dtsch.Fisch., (1956):31-114
Die See- und Küstenfischerei und die
Fischversorgung der Bundesrepublik
Deutschland im Jahre 1956 (Marine
and coastal fishery and fish supply of
the German Republic in the year 1956).
En

Analysis of fisheries statistics
(landings, fishing grounds, spp. caught,
gear & landings of foreign trawlers).

FiB:tl

M

Washington (State) Department 582097
of Fisheries (1957)
45 p.
66th Annual Report for the year 1956

Reports briefly on economic evaluation
of fisheries; hatcheries (research,
management, operations); marine & fresh-
water research; development programmes;
stream improvement; shellfish research
& management; salmon sport fishery;
fisheries Patrol & News log; orders of
Director, & regulation of the year. Ill.

FiB:sjh

MF

Papenfuss, K. (1957) 582100
Jber.dtsch.Fisch., (1956):115-20
Die deutsche Fischereiflotte nach dem
Stand vom 31 Dezember 1956 (German
fishing fleet as on 31 December 1956).
En

Statistics & analysis of the German
fishing fleet.

FiB:tl

M

<p>Lundbeck, J. (1957) 582101 <u>Jber.dtsch.Fisch.</u>, (1956):121-51 Biologisch-statistischer Bericht über die deutsche Hochseefischerei im Jahre 1956 (Biological-statistical report on the German high-sea fishery in the year 1956). En</p> <p>Catches & landings by spp., fishing grounds & seasons; fishing effort & general fishing conditions during the year.</p> <p>FiB:tl M</p>	<p>Bückmann, A. (1957) 582104 <u>Jber.dtsch.Fisch.</u>, (1956):192-6 Die Arbeiten der Deutschen Wissenschaftlichen Kommission für Meeresforschung (The work of the German Scientific Commission for marine investigations). En</p> <p>Review of the work of the Commission in 1956.</p> <p>FiB:tl M</p>
<p>Ebeling, G. (1957) 582102 <u>Jber.dtsch.Fisch.</u>, (1956):166-76 Der Einsatz der Fischereischutzboote FRITHJOF und MEERKATZE sowie des Fischereiforschungsschiffes ANTON DOHRN im Jahre 1956 (Activities of the fisheries protection vessels FRITHJOF & MEERKATZE as well as of the fisheries research vessel ANTON DOHRN in the year 1956). En</p> <p>Report.</p> <p>FiB:tl M</p>	<p>von Brandt, A., H. Mann & Chr. Hennings (1957) 582105 <u>Jber.dtsch.Fisch.</u>, (1956):197-239 Die Fischereiforschung (Fisheries investigations). En</p> <p>Institutes engaged in fisheries investigations, lectures given in fisheries during 1956, summary reviews of investigations in marine, & inland fisheries & list of German fisheries publications during 1956.</p> <p>FiB:tl MF</p>
<p>Roll, H.U. & H.O. Mortins (1957) 582103 <u>Jber.dtsch.Fisch.</u>, (1956):177-86 Bordwetterdienst auf Fischereischutzboot MEERKATZE und Fischereiforschungsschiff ANTON DOHRN im Jahre 1956 (Weather service on board the fisheries protection vessel MEERKATZE & fisheries research vessel ANTON DOHRN in the year 1956). En</p> <p>Activities of the weather stations on board; frequency of gales on the fishing grounds of the North Atlantic & relation of the frequency of gales to the fish landings.</p> <p>FiB:tl M</p>	<p>Dierks, A. (1957) 582106 <u>Jber.dtsch.Fisch.</u>, (1956):240-3 Hochseefischerei (Deep-sea fishery). En</p> <p>Statistics of fleet, landings & general economical stage of the German deep-sea fishery in 1956.</p> <p>FiB:tl M</p>

Frick, C. (1957) 582107
Jbor.dtsch.Fisch., (1956):244-5
Grosso Horingsfischerrei
(Loggerfischerrei) (Great herring
fishery (Logger fishery)). En

Short review of the Gorman logger
fishery for herring in 1956.

FiB:tl M

Brockstedt, H. (1957) 582110
Jbor.dtsch.Fisch., (1956):280-94
Die Fischwirtschaft anderer Länder
(Fisheries (economy) of other countries).
En

Review of landings & fish trades of
various countries of the world during
1956.

FiB:tl M

Nouhaus, E. (1957) 582108
Jbor.dtsch.Fisch., (1956):246-51
Kleine Hochsee- und Küstenfischerrei
(Small deep-sea and coastal fishery).
En

Short review of Gorman fishery with
smaller boats during 1956.

FiB:tl M

Hollmich, G. (1957) 582111
Jbor.dtsch.Fisch., (1956):295-300
Walfang (Whaling). En

Review of the world whaling during 1956.

FiB:tl M

Wiohr, H. (1957) 582109
Jbor.dtsch.Fisch., (1956):252-64
Binnenfischerrei (Inland fishery).
En

Review of the yield of Gorman inland
fishery & fish culture in 1956, & the
investigations conducted in inland
fisheries.

FiB:tl F

Kreffft, G. (1957) 582112
Jbor.dtsch.Fisch., (1956):301-4
Verzeichnis der wissenschaftlichen,
deutschen, englischen, norwegischen,
französischen und spanischen Namen der
in den deutschen Fischerreistatistiken
aufgeführten Tiere (List of scientific
German, English, Norwegian, French and
Spanish names of the animals occurrence
in the German fisheries statistics)

Contents as per title.

FiB:tl MF

Carpelan, L.H. (1957) 582113
Ecology, 38:375-90
Hydrobiology of the Alviso salt ponds

Physico-chemical characteristics & fauna & flora of ponds bordering San Francisco Bay, California, where former salt-marsh has been reclaimed for salt production by solar evaporation of sea-water.

GLK:sjh

M

Harris, D.K. (1957) 582116
Ecology, 38:463-8
Further results in the statistical analysis of stream sampling

Formula proposed for computing variance of number of spp. in independent sets of samples, applied to observations of macro-invertebrate fauna in 6 areas of a stream in Ohio. Development of method described by Gaufin, A.R., D.K. Harris & H.J. Walter (1956) in Ecology, 37: 643-8.

GLK sjh

F

Swindale, D.N. & J.T. Curtis (1957) 582114
Ecology, 38:397-407
Phytosociology of the larger submerged plants in Wisconsin lakes

Selection of lakes for comparative study; sampling methods & devices; definition & description of the communities; seasonal succession & ordination; correlations with environmental factors. Important genera were Juncus, Elodea, Najas, Chara, Potamogeton, Myriophyllum, Ceratophyllum, Sagittaria, Isoetes, Ranunculus, Vallisneria, Megalodonta, Elatine, Gratiola & Eriocaulon.

GLK:sjh

F

Martof, B.S. (1957) 582117
Ecology, 38:494-501
The food of the salamander Leurognathus

Stomach contents of L. marmorata, inhabiting swift mountain streams in Georgia, U.S.A., included insects, decapods, arachnids, algae & gastropods. Comparison with food of Desmognathus quadrimaculatus & with abundances of available food in sampled streams.

GLK:sjh

F

Proctor, V.W. (1957) 582115
Ecology, 38:457-62
Some controlling factors in the distribution of Laonotococcus pluvialis

Growth of this motile green alga, which occurs in ephemeral rainwater pools but not permanent pools, is inhibited by an extracellular toxic substance associated with algal blooms & shown experimentally to be produced by cultures of Chlamydomonas & Scenedesmus.

GLK:sjh

F

Wohlschag, D.E. (1957) 582118
Ecology, 38:502-10
Differences in metabolic rates of migratory and resident freshwater forms of an arctic whitefish

Experimental work to find an explanation of the occurrence & ecological significance of the 2 forms of Coregonus sardinella found near Point Barrow, Alaska. Oxygen consumption (respiratory) rates were measured with regard to body weight, temperature & activity. The statistical problems of this work & the ecological significance of the results are discussed.

GLK:glk

MF

Frank, P.W. (1957) 582119
Ecology, 38:510-9
Coactions in laboratory populations of two species of Daphnia

In an earlier study (Frank, 1952) it was observed that members of 2 genera of Cladocera did not coexist under the experimental conditions provided; in isolation from each other they sustained relatively high densities. Present investigation attempts to apply similar regime to 2 spp. more likely to compete in nature, D. magna & D. pulicaria.

GLK:sjh F

Griffith, R.E. (1957) 582122
Ecology, 38:538-40
A portable apparatus for collecting horizontal plankton samples

A portable apparatus for collecting horizontal plankton samples & operational technique in using it to collect oyster larvae is described. The unit uses a small gasoline-powered portable pump mounted on a skiff.

GLK:tl MF

Sutcliffe, W.H., Jr. (1957) 582120
Ecology, 38:526-9
Observations on the growth rate of the immature Bermuda spiny lobster, Panulirus argus

Data obtained from: 1) specimens held in aquaria & measured for increase in carapace length after moulting, & 2) specimens recently brought in from the field. The effect of laboratory conditions was examined. Growth rate is related to sexual development & to temperature.

GLK:glk M

Löve, A. (1957) 582123
Ecology, 38:543-4
The living landscape in Sweden

Review of original printed in Swedish by Solander, S. (1955), Albert Bonniers Förlag, Stockholm, 485 p.

GLK: MF

Odum, E.P. (1957) 582121
Ecology, 38:531-5
The ecosystem approach in the teaching of ecology illustrated with sample class data

Detailed discussion of studies of a small pond in the teaching of ecology.

GLK:sjh F

Löve, A. (1957) 582124
Ecology, 38:545
Scandinavian ecology

Review of original printed in Swedish by Sjörs, H. (1956), Scandinavian Univ. Books, Helsingfors, 229 p.

GLK: MF

<p>Batos, M. (1957) 582125 <u>Ecology</u>, 38:548 Parasite ecology</p> <p>Review of 'Parasites and parasitism', by Cameron, T.W.M., 1956, <u>Wiley & Sons</u>, New York, 322 p.</p> <p>GLK: MF</p>	<p>Moylo, J.B. & D.R. Franklin (1957) 582128 <u>Trans. Amer. Fish. Soc.</u>, 85:28-38 Quantitative creel census on 12 Minnesota lakes</p> <p>Description of a sampling technique for large lakes with numerous public access points. Also a summary & comparison of the census results with a discussion of reliability of census methods.</p> <p>WAD:tjj F</p>
<p>Springer, S. (1957) 582126 <u>Trans. Amer. Fish. Soc.</u>, 85:13-7 Tuna resources of the tropical and sub- tropical Western Atlantic</p> <p>Lists spp. & briefly discusses their abundance in the Gulf & Caribbean & the means of exploitation.</p> <p>WAD:tjj M</p>	<p>Funk, J.L. (1957) 582129 <u>Trans. Amer. Fish. Soc.</u>, 85:39-57 Movement of stream fishes in Missouri</p> <p>Analysis 846 recovery reports of tagged fish to determine the movement pattern of 14 spp., each sp. including a sedentary group & a mobile group.</p> <p>WAD:tjj F</p>
<p>Clemens, H.P. & J.C. 582127 Finnell (1957) <u>Trans. Amer. Fish. Soc.</u>, 85:18-27 Biological conditions in a brine- polluted stream in Oklahoma</p> <p>The average numbers of 34 kinds of organisms throughout the year in various chloride concentrations ranging from 20,000 p.p.m. to 100 p.p.m. are indicated.</p> <p>WAD:tjj F</p>	<p>Jenkins, R.M. (1957) 582130 <u>Trans. Amer. Fish. Soc.</u>, 85:58-74 The effect of gizzard shad on the fish population of a small Oklahoma lake</p> <p>Estimates of the standing crops in 2 lakes, one with & another without gizzard shad, by short-period, simultaneous, mark-and-recovery method with wire traps, checking the lake with shad by the use of rotenone, are analysed to determine the effect of shad on Contrarchids.</p> <p>WAD:tjj F</p>

Parsons, J.W. (1957) 582131
Trans.Amer.Fish.Soc., 85:75-92
The trout fishery of the tailwater below
Dale Hollow reservoir

On the basis of percentage of stocked
fish angled & of growth rates of creoled
fish, the annual stocking requirements
are estimated.

WAD:tjj F

Caldwell, D.K. & al. (1957) 582134
Trans.Amer.Fish.Soc., 85:120-34
Populations of spotted sunfish and
Florida largemouth bass in a constant-
temperature spring

Scale & morphometric studies on growth
with an attempt to correlate the latter
with seasonal changes in light intensity
& productivity.

WAD:tjj F

Donaldson, L.R. & P.R. 582132
Olson (1957)
Trans.Amer.Fish.Soc., 85:93-101
Development of rainbow trout brood stock
by selective breeding

Describes methods and results of 23
years work with Salmo gairdneri to
improve growth rate, earlier maturity,
tolerance to warm water temperatures,
resistance to disease & egg production.

WAD:wad F

Fry, F.E.J. & K.E.F. Watt (1957) 582135
Trans.Amer.Fish.Soc., 85:135-43
Yields of year classes of the smallmouth
bass hatched in the decade of 1940 in
Manitoulin island waters

Estimation for South Bay, lake Huron,
with subsidiary estimates for neigh-
bouring waters are made indicating 1)
synchronous fluctuations throughout the
district & 2) correlation of yield
variation from year classes with
algebraic sum of monthly deviations from
mean air temperature.

WAD:tjj F

Eschmeyer, P.H. (1957) 582133
Trans.Amer.Fish.Soc., 85:102-19
The near extinction of lake trout in
lake Michigan

History & proof of decline, & analysis
of the causative factors.

WAD:wad F

Scruggs, G.D., Jr. (1957) 582136
Trans.Amer.Fish.Soc., 85:144-59
Reproduction of resident striped bass in
Santee-Cooper reservoir, South Carolina

Discusses exchanges between reservoir
populations & those making seasonal runs
in lower Cooper River & spawning
activities. Sexual maturity is classified
on the basis of changes in ratio of gonad
to body weight.

WAD:tjj MF

Copo, O.B. (1957) 582137
Trans.Amer.Fish.Soc., 85:160-79
Six years of catch statistics on
Yellowstone lake

Part of an investigation on status of
cutthroat trout. Development & use of
methods for estimating numbers of
fishermen, hours of effort & catch are
described.

WAD:tjj

F

Olson, P.A. & R.F. Foster (1957) 582140
Trans.Amer.Fish.Soc., 85:203-7
Temperature tolerance of eggs and young
of Columbia river chinook salmon

Studies of a race of fall spawning
Oncorhynchus tshawytscha

WAD:wad

MF

Hooper, F.F. & A.R. 582138
Grzonda (1957)
Trans.Amer.Fish.Soc., 85:180-90
The use of toxaphene as a fish poison

Differences in toxicity in hard & soft
waters, in the effect on blunt-nosed
minnow & aquatic invertebrates & factors
affecting rates of detoxification & the
part of micro-organisms in reducing
toxicity are described.

WAD:tjj

F

Byrd, I.B. & D.D. Moss (1957) 582141
Trans.Amer.Fish.Soc., 85:208-16
The production and management of
Alabama's state-owned public fishing
lakes

Describes the sites & construction,
with details of stocking & management,
fishermen trips, number & weight of
catch etc. of the 11 managed lakes open
to public fishing.

WAD:tjj

F

Maloney, J.E. & F.H. 582139
Johnson (1957)
Trans.Amer.Fish.Soc., 85:191-202
Life histories and inter-relationships
of walleye and yellow perch, especially
during their first summer, in two
Minnesota lakes

The association of young of the 2 fishes
which have different growth rates & food
habits & possible reasons for
differences in fish distribution in the
lakes are discussed.

WAD:tjj

F

Neuhold, J.M. (1957) 582142
Trans.Amer.Fish.Soc., 85:217-33
Age and growth of the Utah chub, Gila
atraria (Girard), in Panguitch lake and
Navajo lake, Utah, from scales and
opercular bones

Describes the 2 methods & results,
& evaluates them.

WAD:wad

F

Lennon, R.E. & P.S.Parkor (1957) 582143
Trans.Amer.Fish.Soc., 85:234-40
Electric shocker developments on south-
eastern trout waters

Describes the alternate-polarity
electrode system & its value in soft-
water streams with high electrical
resistivities.

WAD:wad

F

Witt, A., Jr. (1957) 582146
Trans.Amer.Fish.Soc., 85:271-9
Seasonal variation in the incidence of
Lymphocystis in the white crappie from
the Niangua Arm of the lake of the
Ozarks, Missouri

Contents as per title.

WAD:tjj

F

Mraz, D. & C.W. Throinen (1957) 582144
Trans.Amer.Fish.Soc., 85:241-56
Angler's harvest, growth rate and
population estimate of the largemouth
bass of Browns lake, Wisconsin

Studies of Micropterus salmoides made
as a basis for evaluating the result
of liberalized angling regulations &
including comparisons of 4 methods of
estimating populations.

WAD:wad

F

Miller, R.B. (1957) 582147
Trans.Amer.Fish.Soc., 85:300-1
Report of standing Committee on
hydrobiology and fish culture

Briefly touches on methods of increasing
production in natural waters under the
heads: 1) reclamation of small lakes by
poisoning, 2) use of hatchery products,
3) lake & stream improvement, 4) popu-
lation manipulation, 5) liberalized
regulations, 6) limnological research &
7) control of natural mortalities.

WAD:tjj

F

DeRoche, S.E. & L.H. Bond (1957) 582145
Trans.Amer.Fish.Soc., 85:257-70
The lake trout of Cold Stream Pond,
Enfield, Maine

Studies of Cristivomer namaycush:
tagging, spawning habits, egg predation,
harvest, age & growth, mortality,
population estimates.

WAD:wad

F

Inglo, R.M. (1957) 582148
Proc.Gulf Caribb.Fish.Inst., 9:6-17
Intermittent shrimp sampling in
Apalachicola Bay with biological notes
and regulatory applications

Considers regulation of the fisheries
for Ponacus setiferus, P. aztecus, & P.
duorarum on the basis of biological
investigations.

HR:hr

M

Regan, J., C.P. Idyll & 582149
E.S. Iverson (1957)
Proc.Gulf Caribb.Fish.Inst., 9:18-22
Mesh size regulations as a possible
method of managing the tortugas shrimp
fishery

A study of the effect of different cod
and mesh sizes on the size composition
of the catch & the escapement of shrimp,
& the effect on small shrimp of passing
through the cod end.

HR:hr

M

Juno, F.C. (1957) 582152
Proc.Gulf Caribb.Fish.Inst., 9:99-106
Biological investigation of Atlantic
Coast Monhadon

The story of the fishery of Brevoortia
tyrannus & the development of the
biological investigations being made to
determine the causes of fluctuations in
the fishery & the extent to which they
are predictable, are reported.

HR:hr

M

Bullis, H.R., Jr. (1957) 582150
Proc.Gulf Caribb.Fish.Inst., 9:56-60
Royal red shrimp - a new South Atlantic
resource

A report on the exploratory shrimp
fishery carried out on the South
Atlantic coast of the United States
for Hymenopenaeus robustus.

HR:hr

M

Tabb, D. (1957) 582153
Proc.Gulf Caribb.Fish.Inst., 9:106
Studies on the life history of the
spotted sea trout Cynoscion nobulosus
(C. & V.)

Studies of spawning, age, growth, food
habits & abundance; relative percentage
of the total catch provided by each
segment of the fishery - sport hook &
line, commercial hook & line &
commercial gill netters. Seasonal trends
in availability & seasonal migrations.

HR:hr

M

Stein, J.E. (1957) 582151
Proc.Gulf Caribb.Fish.Inst., 9:99
The status of scientific knowledge about
the red snapper (Lutjanus aya Bloch)
and the economic importance of this
fishery

Although the red snapper was found to be
the 3rd largest fin fishery in the Gulf
of Mexico, there was a paucity of
scientific information on this animal.
Various programs were suggested to fill
the gaps of ignorance in order to further
develop the industry.

HR:hr

M

Bardach, J.E. & D.W. 582154
Monzel (1957)
Proc.Gulf Caribb.Fish.Inst., 9:106-12
Field and laboratory observations on the
growth of some Bermuda reef fisheries

A study of growth by following weight
increment of marked fish in the field
which was compared with weight gains
upon saturation feeding of one sp. in
laboratory. Growth of Epinophelus
guttatus, E. striatus, Mycteropora
bonaci & M. falcata were studied.

HR:hr

M

Murdock, J. (1957) 582155
Proc. Gulf Caribb. Fish. Inst., 9:112-20
A survey of spearfishing in the Florida
Keys

Discusses fishing effort & landings &
methods of regulation of spearfishing.

HR:hr

M

Carranza, J. (1957) 582158
Proc. Gulf Caribb. Fish. Inst., 9:145-50
Marine fisheries of the Yucatan
Peninsula, Mexico

A progress report on the investigations
carried out since 1954. The zone of
study includes the states of Campeche &
Yucatan, & the territory of Quintana
Roo.

HR:hr

M

Storr, J.F. (1957) 582156
Proc. Gulf Caribb. Fish. Inst., 9:120-7
Progress of recovery of the commercial
sponge beds of Florida

The problem of recovery of the sponge
beds is discussed under the following
headings: historical background, present
distribution of the sponges in the
upper Gulf, sponge productivity, growth
rate of the sponges, present
distribution related to ocean currents,
factors affecting distribution, &
probable distribution in 5 & 10 years.

HR:hr

M

Wiles, D.W. (1957) 582159
Proc. Gulf Caribb. Fish. Inst., 9:150-3
Developing a Caribbean fishery

Suggests a fishery research programme
to be developed by the Federated
British West Indies.

HR:hr

M

Suarez Caabro, J.A. (1957) 582157
Proc. Gulf Caribb. Fish. Inst., 9:136-43
The present situation in the fishing
industry of Cuba

The fishing industry of Cuba is
discussed under the following headings:
the shrimp, spiny lobster, shark, tuna,
grouper & snapper fishery & imports &
exports of fishing products.

HR:hr

M

Rosa, H., Jr. (1957) 582160
Proc. Gulf Caribb. Fish. Inst., 9:153-70
The survey of living aquatic resources

Describes the work of the Fisheries
Biology Branch of the Fisheries
Division of FAO in connection with the
survey of living aquatic resources of
the world. It presents as tentative
examples, 14 figures illustrating in
synoptic fashion certain features of the
Central American Region, & indicates the
lines along which further development
of this work is intended to be made.

HR:hr

MF

Rawls, O. (1957) 582161
Proc. Gulf Caribb. Fish. Inst., 9:171-5
Activities of the Corps of Engineers
related to Florida coastal fisheries

Discusses the civil works carried out
in the Jacksonville District with some
effect on coastal waters & estuaries.

HR:hr

MF

Rao, J. Visweswara (1958) 582164
J. sci. industr. Res., 16A(1):5-8
Hydraulic Engineering Laboratory,
Indian Institute of Technology,
Kharagpur

Description of laboratory, its equipment
& research being carried out there &
planned for the future, mainly relating
to dam design & regulation of water
flow & silting in rivers & canals.

FAO:sjh

F

Marshall, A.R. (1957) 582162
Proc. Gulf Caribb. Fish. Inst., 9:175-80
The activities of the U.S. Fish & Wild-
life Service, Office of River Basin
Studies, in relation to federal water-
use projects and the marine fisheries
resources of Florida

Stresses the problems of conservation
connected with projects of the Corps
of Engineers in Florida.

HR:hr

MF

Shaikhmahmud, F. & N.G. 582165
Magar (1958)
J. sci. industr. Res., 16A(1):44-6
Studies in the nutritive value of
Bombay prawns: Part I - Chemical
composition of prawns

Reports analysis of fats, protein,
glycogen, lactic acid, mineral &
vitamin content of Penaeus penicillatus,
Metapenaeus affinis, Parapenaeopsis
stylifera, Hippolytina onsirostris &
Leander tenuipes.

FAO:sjh

M

Allon, J. (1958) 582163
Research, Lond., 11:67-75
Hydraulic scale models

Brief ill. survey of the present
position of the use of scale models in
solving some hydraulic engineering
problems & adding to knowledge of
siltation & erosion in river & tidal
areas, fluid motion in pipes, the
resistance encountered by ships.

FAO:sjh

MF

Gail, R. & L. Devamboz (1958) 582166
Tech. Pap. S. Pacif. Comm., (111):17 p.
Selected annotated bibliography of
Trochus (Trochus niloticus, Linn.)

25 refs. in alphabetical order of
authors' names, with geographical key
(Australia, India, New Caledonia,
Philippine Is., Pacific Is. Trust
Territory). Notes on distribution of
the sp.

FiB:sjh

M

Horobin, G.W. (1957) 582167
Brit.J.Soc., 8:343-56
Community and occupation in the Hull
fishing industry

Socio-economic study of this important
English distant-waters fishing port.

:sjh

M

Lear, J. (1958) 582170
Saturday Rev., N.Y., July 5:35-6
The sea within us: an ancestral tale

Popular article on the exploration of
the oceans & their natural resources.

WAD:sjh

M

Harder, W. (1958) 582168
Bull.interam.trop.Tuna Comm., 2:367-88
The intestine as a diagnostic character
in identifying certain clupeoids
(Engraulididae, clupeidae, dussumieriidae)
and as a morphometric character for
comparing Anchoeta (Cetengraulis
mysticetus) populations. En Es

Statistics show differences in relation
of length of intestine to body length
in different stocks of clupeoids in the
eastern tropical Pacific & elsewhere.
References to genera Etrumeus,
Opisthopterus, Odontognathus, Neopi-
sthopterus, Opisthonema, Sardinops, Lile,
Clupea, Alosa, Pomolobus, Lycengraulis,

Anchoa, Harengula, Engraulis,
Anchoviella.

582168
(Card 2)

SJH:sjh

M

Iselin, C.O'D. (1958) 582171
Saturday Rev., N.Y., July 5:37-41
Our water planet

Popular ill. article on modern
oceanographic research.

WAD:sjh

M

Hill, G. (1958) 582172
Saturday Rev., N.Y., July 5:42-3
Seafloor wonder merchant

A profile of Dr. Roger Revelle,
Director of the Scripps Institution of
Oceanography, La Jolla, California.

WAD:sjh

M

Brown, H. (1958) 582173
Saturday Rev., N.Y., July 5:45-6
The research frontier

A popular ill. article on underwater exploration, especially with bathyscaphes.

WAD:sjh

M

Larimore, R.W. (1957) 582176
Bull.Ill.nat.Hist.Surv., 27(1):83 p.
Ecological life history of the warmouth (Centrarchidae)

A detailed study of Chaenobryttus gulosus (Cuvier, incl. a description of habitat, food habits, reproduction, growth, parasitism, behaviour & economic relations.

WAD:wad

F

Anonymous (1957) 582174
J.sci.industr.Res., 16A:309-10
Algae as a source of fuel

Account of report in Sci.News Lett.Wash. 71:117, (1957) of studies made at University of California of production of gaseous fuel (methane) by control of processes involving growth & decay of pond algae.

FAO:sjh

F

Elliott, G.F. (1958) 582177
Publ.biol.Sta., Bergen, (21):5 p.
An abnormal lophophore in Macandrevia (Branchiopoda)

Description of a Norwegian specimen of M. cranium; comparison with other records suggests phenomena is a congenital defect.

GLK:sjh

M

Ziporin, Z.Z., H.F. Kraybill & H.J. Thach (1957) 582175
J.Nutr., 63:201-9
Vitamin content of foods exposed to ionizing radiations

Incl. results of gamma irradiation of muscle of haddock.

FAO:sjh

M

Van Oosten, J. & H.J. Deason (1957) 582178
Spec.sci.Rep.U.S.Fish Wildl.Serv., (229): 63 p.

History of Red Lakes fishery, 1917-38, with observations on population status

Traces the development of the commercial fisheries of the Red Lakes, Minnesota, from inception in 1917 as a war measure through 1938. Trends of production & catch per unit of effort for the principal spp. with notes on statistics of minor fishes; life history data for the walleye & yellow perch; artificial propagation of walleye & whitefish from 1918 through 1938.

WAD:glk

F

Larrañeta, M.G., J. López & P. Suau (1957) 582179

Invest.pesq., 9:3-25

Composición de los desembarcos en la pesquería de sardina de Castellón (Composition of the landings of the Castillian sardine fishery). En

Estimation of the number of sardines landed of each age group by extension of the age-composition of samples of each of three areas in each ten day period during 1948 to 1955, to the catches taken in those areas & periods.

FAO:glk

M

Margalof, R. (1957) 582182

Invest.pesq., 9:65-95

Variación local e interanual en la secuencia de las poblaciones de fitoplancton de red en las aguas superficiales de la costa mediterránea española (Local & annual variation in the sequence of populations on net phytoplankton in the surface waters of the Mediterranean coast of Spain). En

Analysis of previously published data giving average monthly values expressing relative abundance of every sp., on the assumption that abundance of Dinoflagellates remained constant throughout the

Figueras, A. (1957) 582180

Invest.pesq., 9:27-31

Datos sobre la edad y crecimiento de la albacora (Germo alalunga, Bonnaterre) (Data on the age and growth of the albacore (Germo alalunga Bonnaterre)). En

Age determination on fish of the NW Spanish coast by study of vertebral centra; determination of relation of body length to vertebral radius; comparison with previous results.

FAO:glk

M

582182
(Card 2)

year. The cycles of abundance & of changes in composition are discussed.

FAO:glk

M

Rodríguez-Roda, J. (1957) 582181

Invest.pesq., 9:33-64

Crecimiento relativo des atún, Thunnus thynnus (L.), de Barbate (Costa sudatlántica española) (Relative growth of the tunny, Thunnus thynnus L. of Barbate (south Atlantic coast of Spain)). En

Linear regressions between various body dimensions; length-weight relation; number of rays in the dorsal fin, & number of dorsal & anal finlets.

FAO:glk

M

Suau, P. & F. Vives (1957) 582184

Invest.pesq., 9:97-118

Contribución al estudio del salmonete de fango (Mullus barbatus L.) del Mediterráneo occidental (Contribution to the study of the mullet (Mullus barbatus L.) of the western Mediterranean). En

Sexual development & sex ratio; variations in muscular & hepatic fat; age & growth; migrations.

FAO:glk

M

Planas Mestres, J. (1957) 582185
Invest.pesq., 9:119-28
Estudio sobre el páncreas endocrino del bonito del Norte o albacora, Germo alalunga, Gml. (Study of the pancreatic endocrine of the northern bonito or albacore, Germo alalunga, Gml.)
En

Location of pancreatic endocrine nodules in the liver, their weight, size & shape. Extraction of insulin from the nodules & its bioassay.

FAO:glk

M

Shewan, J.M. & A.S.C. 582188
Thronberg (1957)
J.Sci.Fd Agric., 8:227-31
Volatile bases as quality indices of iced North Sea cod

Incl. data on composition of Gadus callarias from North Sea & Icelandic waters.

FAO:sjh

M

Resources for the Future (1957) 582186
Washington, D.C., 89 p.
Annual Report for the year ending September 30, 1957

Incl. discussion of multipurpose river development, sport fisheries & recreation, study by J. Crutchfield of fishery statistics indicating relative rise in fish prices & decrease in per capita consumption since 1890's.

HR:sjh

MF

Love, R.M. (1957) 582189
J.Sci.Fd Agric., 8:238-42
The expressible fluid of fish fillets. V. Cell damage in fillets frozen from one side: the general picture

Incl. data on muscle structure of Gadus callarias from North Sea.

FAO:sjh

M

Showan, J.M. & J. Liston (1957) 582187
J.Sci.Fd Agric., 8:222-6
The use of tetrazolium salts for assessing the quality of iced white fish

Incl. data on composition of young Gadus callarias.

FAO:sjh

M

Gunstone, F.D. & W.C. 582190
Russell (1957)
Animal fats. VIII - The component acids of flamingo fat and antelope fat

Incl. some data on composition of food of Phconicopterus chilensis which incl. benthic worms & shrimps.

FAO:sjh

F

Connell, J.J. (1957) 582191
J.Sci.Fd Agric., 8:526-37
Some aspects of the texture of dehydrat-
ed fish

Incl. some data on gross chemical
composition & histology of Gadus
callarias.

FAO:sjh

M

Yuen, H.S.H. & F.C. Juno (1957) 582194
Fish.Bull., U.S., 57(112):251-64
Yellowfin tuna spawning in the central
equatorial Pacific

Data from 740 laboratory determinations,
supplemented by field determinations,
of the stage of maturity of ovaries of
yellowfin tuna (Neothunnus macropterus)
caught in the central equatorial
Pacific, showing size at first spawning
locality & time of spawning, & giving
description of stages of resorption of
residual eggs; also notes on occurrence
of nematodes in the ovaries.

FiB:glk

M

Peters, A.J. (1957) 582192
J.Soc.Bibl.nat.Hist., 3:238-62
Bibliography of published work bearing
on the natural history of the
Seychelles and neighbouring archipe-
lagoes

List of 398 works dealing with Indian
Ocean generally, geology, natural
history, floras, faunas, production
(incl. fisheries), education & medicine.

GLK:glk

M

Smith, K.A. (1957) 582195
Comm.Fish.Rev., 19(9):1-15
Maine herring explorations and fishing
gear experiments

Reports gill-net search by MITACOMET
for young "sardines" (Clupea harengus),
trials with midwater trawl, purse-
seine.

FAO:sjh

M

Racok, A.A. (1957) 582193
Fish.Bull., Aust., (6):13 p.
The systematic position of the school
prawn from Western Australia

Describes Metapenaeus dalli sp. n. from
Western Australia & compares it with
its closest congeners, M. burkenroadi &
M. mastersii.

FiB:hr

M

Fingerman, M., L.D. Fairbanks 582196
& W.C. Plauche (1957)
Comm.Fish.Rev., 19(9):16-8
Body fluid losses of northern and
southern oysters

% loss of weight after shelling by
Crassostrea virginica: seasonal &
geographic differences; relations
between concentrations of protein, salt
& cells in body fluids.

FAO:sjh

M

International Oceanographic 582197
Foundation (1958)
Sea Secrets, 2(4)

Answers to various biological & other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.

SJH:sjh

M

Whittingham, C.P. (1958) 582200
Advanc.Sci., Lond., 14:441-7
The chemical mechanism of photosynthesis

Incl. short account of knowledge of photosynthetic processes in algae, especially Scenedesmus & sea-wood zonation.

FAO:sjh

MF

International Oceanographic 582198
Foundation (1958)
Sea Secrets, 2(5)

Answers to various biological & other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.

SJH:sjh

M

Wells, M.J. (1958) 582201
Advanc.Sci., Lond., 14:449-57
Nerve structure and function

Incl. account of experiments with Octopus, Sepia & Homarus.

FAO:sjh

M

Fogg, G.E. (1958) 582199
Advanc.Sci., Lond., 14:395-400
Actual and potential yields in photosynthesis

Incl. review of estimates of primary production in natural waters, & experimental work on Scenedesmus & Chlorolla.

FAO:sjh

MF

Ridley, M.W. & R. Porcy (1958) 582202
London, H.M.S.O.,
The exploitation of sea birds in Seychelles

This report examines the problem & suggests methods for the control of egg cropping. It deals primarily with sooty & noddy terns.

:sjh

M

FAO/58/9/6635

Rubin, M. & C. Alexander (1958) 582203
Science, 127:1476-87
U.S. Geological Survey radiocarbon
dates IV

Gives results of analysis of bottom
cores & carbonate in water samples at
various depths in the Atlantic.

FAO:sjh

M

Rigby, J.K. & L.H. 582206
Burekle (1958)
Science, 127:1504
Turbidity currents and displaced fresh-
water diatoms

A review & discussion, with some new
evidence, of the problem of occurrence
of freshwater diatoms in deep cores
from the Eastern Atlantic.

FAO:sjh

MF

Anonymous (1958) 582204
Science, 127:1490-1
Illinois Natural History Survey

Note on the centenary of the Survey &
the limnological research carried out
under it.

FAO:sjh

F

Kolbe, R.W. (1958) 582207
Science, 127:1504-5
Turbidity currents and displaced fresh-
water diatoms

An answer to 582206.

FAO:sjh

MF

Teeri, A.E. & R.E. Bieber (1958) 582205
Science, 127:1500
B-complex vitamins in certain brown
and red algae

Reports analyses of Fucus spiralis,
Ascophyllum nodosum, Laminaria agardhi
& Chondrus crispus.

FAO:sjh

M

Douglas, B. (1958) 582208
J. Ecol., 46:295-322
The ecology of the attached diatoms
and other algae in a small stony
stream

Sampling methods; the topography,
physical, chemical & biological
characteristics of Belle Grange Beck,
Lancashire, England; features of the
habitat & its algal flora; distribution
& periodicity of the Achnanthes spp.;
other diatom spp. & sp. groups.

FAO:sjh

F

FAO/58/9/6635

Elton, C.S. (1958) 582209
Methuen and Co.Ltd., 181 p.
The ecology of invasions by animals and plants

Severe disturbances, spread of pests, epidemic diseases in which animals play a part, changes in the kind of plants & animals forming basic food-chains, are happening increasingly all over the world. The author offers an explanation of what is happening and some ideas for the improvement of control & balance in populations.

:sjh

MF

Anonymous (1958) 582212
Discovery, 19:310
Marine Biology Institute expanded

A short note on development of the Marine Institute of Bergen University.

FAO:sjh

M

Donner, J.J. (1958) 582210
New Phytol., 57(2)
Loch Mahaick, a late-glacial site in Perthshire

F

Lowry, C.C. (1958) 582213
Discovery, 19:327-32
The Hydrographic Department of the Admiralty

A brief ill. history of this British Government Department, with account of its functions, vessels, personnel, equipment. Work in surveying & charting, development & use of asdic, radar, decca.

FAO:sjh

M

Southcott, R.V. (1958) 582211
Discovery, 19:282-5
The Cubomedusae - lethal jellyfish

A ill. essay on the biology of some probable causative agents of death by stings in the tropical Indo-Pacific: Chironex fleckeri, Chiropsalmus quadrigatus & Charybdaea rastoni.

FAO:sjh

M

Croome, A. (Comp.) (1958) 582214
Discovery, 19:343-5
The International Geophysical Year - Month by month

Incl., under heading "Great Oceanographic Discovery", a note on the charting of the Cromwell Sub-surface Pacific Equatorial Current by R/V/S HORIZON & HUGH M. SMITH.

FAO:sjh

M

<p>Swedmark, B. & G. Teissier (1958) 582215 <u>C.R.Acad.Sci., Paris, 247:238-40</u> <u>Otohydra vagans</u> n. g., n. sp., hydrozoaire des sables, apparenté aux Halammohydridées (<u>Otohydra vagans</u> n.g., n.sp., hydrozoan of sands assigned to the Halammohydridae)</p> <p>Ill. description of the sp. from north coast of Finistère & discussion of its systematic position.</p> <p>FAO:sjh M</p>	<p>Halldal, P. (1958) 582218 <u>Physiol.Plant., 11:401-20</u> Pigment formation and growth in blue-green algae in crossed gradients of light intensity and temperature</p> <p>The in vivo absorption spectra of 2 chlorophyll a, phycoyanin & yellow pigments have been derived & a three-dimensional representation of the different pigments formed in <u>Anacystis</u> at different light intensities & temperatures at 2 stages of the development is given.</p> <p>FAO:tl F</p>
<p>Gontcharoff, M. (1958) 582216 <u>C.R.Acad.Sci., Paris, 247:246-7</u> L'autogreffe de la trompe chez <u>Eunemertes echinoderma</u> Marion (Self-graft of the proboscis of <u>Eunemertes echinoderma</u> Marion)</p> <p>Note on experimental implantations.</p> <p>FAO:sjh M</p>	<p>Union Géodésique et Géophysique 582219 Internationale (1958) <u>Paris, 97-128</u> Chronique de l'U.G.G.I. no. 12 (I.U.G.G. chronicle)</p> <p>Contains list of national correspondents for the International Association of Physical Oceanography.</p> <p>TL:tl M</p>
<p>Sorokin, C. (1958) 582217 <u>Physiol.Plant., 11:275-83</u> The effect of the past history of cells of <u>Chlorella</u> on their photosynthetic capacity</p> <p>The photosynthetic activity of high-temperature strain of <u>Chlorella</u> as affected by the past history of the cells & environmental conditions (temperature & light intensity) during photosynthetic measurements was studied with the Warburg technique.</p> <p>FAO:tl F</p>	<p>Kent, R.E. (1958) 582220 <u>Tech.Rep.Chesapeake Bay Inst., (16):86 p.</u> Turbulent diffusion in a sectionally homogeneous estuary</p> <p>A practicable theory is presented from which quantitative predictions of mean pollutant-concentration distributions may be obtained for an estuary characterized by steady-state salinity & velocity fields which are considered to vary only in the axial direction.</p> <p>FAO:tl MF</p>

Manwell, C. (1958) 582221

Physiol.Zoöl., 31:93-100

A "fetal-maternal shift" in the ovoviviparous spiny dogfish Squalus suckleyi Girard

On the basis of oxygen equilibrium & alkaline denaturation rate, the fetal & adult hemoglobins of the spiny dogfish S. suckleyi are distinct proteins.

FAO:sjh

M

Matic, M. (1958) 582224

Biochem.J., 68:692-5

South African pilchard oil. 7. The isolation and structure of an octadeca-tetraenoic acid from South African pilchard oil

Chemical composition of Sardina ocellata.

FAO:sjh

M

Blažka, P. (1958) 582222

Physiol.Zoöl., 31:117-28

The anaerobic metabolism of fish

Experiments with crucian carp (Carassius carassius) & Salmo trutta m. fario.

FAO:sjh

M

Jones, N.R. (1958) 582225

Biochem.J., 68:704-8

The estimation of free sugars in skeletal muscle of codling (Gadus callarias) and herring (Clupea harengus)

Chromatographic analysis.

FAO:sjh

M

Marsh, C.A. & G.A. Lovvy (1958) 582223

Biochem.J., 68:610-21

The relationship between glucuronidase and galacturonidase activity in the limpet and in mammalian tissues

Experimental study of enzymes of Patella vulgata, with appendix on 'the synthesis of aryl glycosiduronic acid'.

FAO:sjh

M

Connell, J.J. (1958) 582226

Biochem.J., 69:5-12

Studies on the protein of fish skeletal muscle. 4. Ultracentrifugal analysis of codling extracts

Composition of Gadus callarias muscle extracts.

FAO:sjh

M

FAO/58/9/6635

Duncan, W.A.M. & D.J. 582227
Manners (1958)
Biochem.J., 69:343-8
Enzyme systems in marine algae. 2.
Trans- - glucosylation by extracts of
Cladophora rupestris

Characterization of the oligosaccharides synthesized from maltose by an extract of C. rupestris is described, & the acceptor specificity of the trans- - glucosylase system is discussed.

FAO:sjh

M

Liedor, U. (1958) 582230
Ark.Zool., Andra Ser., 11:349-53
Beiträge zur Kenntnis des Genus Bosmina (Crustacea, Cladocera). V. Über das fennoskandische Vorkommen einiger seltener Bosminen der 'coregoni-Gruppe' (Contributions to knowledge of genus Bosmina (Crustacea, Cladocera). V. On the fennoscandian occurrence of some rare Bosminas of the 'coregoni-group')

Descriptions of Bosmina reflexa (Seligo), B. coderströmi (Schödler) & B. crassicornis (Lilljeborg), with notes on their distribution.

FAO:tl

F

Bhattacharyya, R.N. (1958) 582228
Proc.nat.Inst.Sci.India, 24A(1):45-54
Wave resistance of a ship moving in a circular path

Formula for the resistance for a ship moving uniformly in a circle has been obtained, the width of the ship has been supposed to be small & the ship has been replaced by its central vertical section which is covered by a suitable distribution of sources & sinks.

FAO:sjh

M

Lindborg, K. (1958) 582231
Ark.Zool., Andra Ser., 11:355-77
Un cyclopede (Crustacé copépode) récolté par Monsieur Patrice Paulian dans l'île Amsterdam (A cyclopid (Crustacea, copopoda) found by M. Patrice Paulian at Isle of Amsterdam)

Ill. description of Paracyclops fimbriatus chiltoni. Systematic review of genus with extensive bibliography.

FAO:sjh

F

Oldevig, H. (1958) 582229
Ark.Zool., Andra Ser., 11:343-7
On a new aberrant talitrid from the island of Sachalin

Ill. description of specimens of new amphipod Haustorioides munsterhjelmii nov.gen. & sp., collected 1914 under sea-wrack washed on shore at Sakashama.

FAO:sjh

M

Agroll, I. (1958) 582232
Ark.Zool., Andra Ser., 11:303-92
The thermal dependence of the mitotic stages during the early embryonic development of the sea urchin embryo

Experiments with Psammochinus miliaris & Echinus osculentus from west coast of Sweden.

FAO:sjh

M

Plack, P.A., S.Y. Thompson & S.K. Kon (1958) 582233
Biochem.J., 68:2p
Proceedings of the Biochemical Society -
Vitamin A₁ aldehyde in fish eggs

A note on chromatographic study of
extracts of egg of Clupea harengus.

FAO:sjh

M

Roy, A.B. (1958) 582236
Biochem.J., 68:519-28
Comparative studies on the liver
sulphatasos

Incl. data on enzyme system of
Gasterosteus aculeatus.

FAO:sjh

MF

Murray, J. & N.R. Jones (1958) 582234
Biochem.J., 68:9p
Proceedings of the Biochemical Society -
Post-mortem changes in acid-soluble
nucleotides of rested codling (Gadus
callarias) muscle at 0°

Note on a biochemical analysis.

FAO:sjh

M

Rochford, D.J. (1958) 582237
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (16):
5 p.
The seasonal circulation of the surface
water masses of the Tasman and Coral
seas

A summary of the investigations on
identification & seasonal circulation
of surface water masses in the area.

FAO:tl

M

Bergmann, F., S. Rimon & R. Segal (1958) 582235
Biochem.J., 68:493-9
Effect of pH on the activity of ool
esterase towards different substrates

Experiments with enzyme extracts from
Electrophorus electricus.

FAO:sjh

M

Chittleborough, R.G. (1958) 582238
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (17):
23 p.
Australia: catches of humpback whales
1957

Review of production statistics; sex
ratios, maturity, size distribution of
catches by months & areas.

FAO:sjh

M

FAO/58/9/6635

Food & Agriculture Organization 582239
of the United Nations (1958)
Rep.FAO/TAP, (798):42 p.
Report to the Government of Brazil on
fishery biology

Report of authors' assignment FAO under
U.N. Expanded Technical Assistance
Programme. Observations on marine
resources of Brazil with special
reference to Sardinella aurita, Mugil
(tagging); also to demersal spp.;
benthos of the area; organization &
programmes of research; recommendations
for further development.

SJH:sjh

M

Tsuchiya, Y. & Y. Sato (1957) 582242
Tohoku J.agric.Res., 7:273-6
Rapid method for the determination of
moisture content in fish meat. II.
Relation between error of estimation and
fat content

The methyl alcohol dehydration method
was studied. The errors, in the case of
fatty fish, were within the limits \pm
1.9%.

:sjh

MF

Wessler, E. & I. Werner (1957) 582240
Acta chem.scand., 11:1240-7
The chemical composition of some mucous
substances of fish

Chemical analysis of external mucous
coatings, roe & milt of many fish spp.,
incl. burbot, roys, Myxine glutinosa, &
Pleuronectes platessa.

:sjh

M

Hagee, G.R. & C.P. Straub (1958) 582243
Bull.Amer.Soc.Test.Mat., (227):35-40
Analysis of radioactivity in surface
waters, etc.

Practical procedures for preparing
water, soil & biological samples for
counting & then determining their total
 α - & β -activity in internal, gas-flow,
proportional counters are described.

:sjh

F

Love, R.M. (1958) 582241
J.Sci.Fd Agric., 9:195-8, 199-203
North Sea cod. I. Muscle cell dimensions.
II. Deoxyribose nucleic acid in the
musculature

Histological & biochemical study of
Gadus callarias.

:sjh

M

Toney, M.L., Jr. (1958) 582244
Growth, 22(1):35-50
Morphology of the blood cells of some
crustacea

Ill. account of cytological & histo-
logical observations on blood, lymphatic
& cardiac tissue of Cambarus bartoni,
Callinectes sapidus & Homarus americanus
from N. Carolina, Virginia & N. America
Atlantic coast respectively.

FAO:sjh

MF

<p>Heady, E.O. (1958) 582245 <u>Canad.J.agric.Econ.</u>, 6(1):1-13 Applications of game theory in agricultural economics</p> <p>A method of determining operational strategy generally applicable to exploitation of natural & cultivated living resources.</p> <p>FAO:sjh MF</p>	<p>Ockendon, C.V. (1958) 582248 <u>Technique, Beckenham</u>, 12:19 Weather facsimile broadcasts</p> <p>A short ill. description of a chart facsimile radio transmitter & receiver.</p> <p>SJH:sjh M</p>
<p>McIntyre, A.D. (1958) 582246 <u>Mar.Res.</u>, (1):17 p. The ecology of Scottish inshore fishing grounds. I. The bottom fauna of east coast grounds</p> <p>From a grab survey made in July 1954 of 3 fishing grounds off the Scottish east coast a description is given of the standing crop of bottom fauna animals. This is the first account of a series of studies on the fluctuations & productivity of the benthos & the feeding of fish.</p> <p>FAO:sjh M</p>	<p>Bell, J. (1958) 582249 <u>Technique, Beckenham</u>, 12:20-3 An analogue computer employing magslips and servos</p> <p>Ill. description of a computer designed for study of ship stabilization; its principles & use; means of stimulating sea forces.</p> <p>SJH:sjh M</p>
<p>Mosimann, J.E. (1958) 582247 <u>Rev.canad.Biol.</u>, 17:137-228 An analysis of allometry in the chelonian shell</p> <p>A comprehensive review, followed by report of original study & development of analytical methods for growth of <u>Sternotherus odoratus</u>, <u>Chrysemys picta</u> & <u>Graptemys geographica</u>.</p> <p>FAO:sjh F</p>	<p>U.K. White Fish Authority (1958) 582250 <u>London</u>, 44 p. Annual report and accounts for the year ended 31st March 1958</p> <p>Under headings production, marketing & distribution, research & experiment, training, investigations; appendices give membership of Advisory Council, distribution of British vessels by age, length & port, & notes on rebuilding of fleets; accounts.</p> <p>FiB:sjh M</p>

Cohen, E. & G.B. Stickler (1958) 582251
Science, 127:1392
Absence of albuminlike serum proteins in turtles

Reports comparative study, by electrophoresis, of blood sera of the reptiles Alligator mississippiensis, Chelydra serpentina, Dermodochelys coriacea, Chelonia mydas & Testudo gigantea.

FAO:sjh

MF

Wright, J.C. (1958) 582254
Limnol.Oceanogr., 3:150-9
The limnology of Canyon Ferry Reservoir. I. Phytoplankton-zooplankton relationships in the euphotic zone during September and October, 1956

Phytoplankton & zooplankton standing crop, gross & net primary production were measured. From these data the daily rate of loss of phytoplankton from the euphotic zone was calculated.

TL:tl

F

Raymont, J.E.G. & M.N.E. 582252
Adams (1958)
Limnol.Oceanogr., 3:119-36
Studies on the mass culture of Phaeodactylum

Description of the cultivation method, rate of growth of culture & the influence of different amounts of light carbon dioxide, phosphates & nitrates on growth.

TL:tl

M

Roid, J.L., Jr. (1958) 582255
Limnol.Oceanogr., 3:160-5
A comparison of drogoue and GJK measurements in deep water

2 series of current measurements made with GJK & drogoues are shown to agree closely, not only in the averaged results of 3 days' data, but in short-period variations about the mean.

TL:tl

II

Schaefer, M.B. & Y.M.M. 582253
Bishop (1958)
Limnol.Oceanogr., 3:137-49
Particulate iron in offshore waters of the Panama Bight and in the Gulf of Panama

Particulate iron is reported from replicate samples taken at 2 depths at several locations in the Panama Bight during November 1955, & at a single in-shore location in the Gulf of Panama at bimonthly intervals. A few samples were taken at other locations from a river flowing into the Gulf.

TL:tl

M

Pierce, E.L. (1958) 582256
Limnol.Oceanogr., 3:166-70
The Chaetognatha of the inshore waters of North Carolina

Distribution of Sagitta hispida, S. tenuis, S. helenae, S. onflata & Krohnitta pacifica & their relation to different environmental conditions.

TL:tl

M

<p>Patterson, A.M. (1958) 582257 <u>Limnol.Oceanogr.</u>, 3:171-80 Turbulenco spectrum studies in the sea with hot wire</p> <p>Description of hot-wire equipment & observations on the turbulenco spectrum in Strait of Juan de Fuca during a tidal cycle. A review of several types of turbulenco measuring instruments is included.</p> <p>TL:tl M</p>	<p>Froy, D.G. & J.B. Stahl (1958) 582260 <u>Limnol.Oceanogr.</u>, 3:215-21 Measurements of primary production on Southampton Island in the Canadian Arctic</p> <p>Primary production in 2 lakes of contrasting morphometry was estimated independently from the differences in oxygen, pH, & carbon¹⁴ uptake between light & dark bottles.</p> <p>TL:tl F</p>
<p>Mackeroth, F.J.H. (1958) 582258 <u>Limnol.Oceanogr.</u>, 3:181-91 A portable core sampler for lake deposits</p> <p>Pncumatically operated sampler is described which may be used by 2 men from a rowing boat. Apparatus takes an undisturbed sediment core 6 m long & is substantially independent of water depth up to a limit of 250 m.</p> <p>TL:tl F</p>	<p>Prowse, G.A. & J.F. 582261 Talling (1958) <u>Limnol.Oceanogr.</u>, 3:222-38 The seasonal growth and succession of plankton algae in the White Nile</p> <p>A description is given of the seasonal growth & succession, over 5 years, of planktonic algae in a region of the White Nile affected by a reservoir.</p> <p>TL:tl F</p>
<p>Livingstone, D.A., K. Bryan & R.G. Leahy (1958) 582259 <u>Limnol.Oceanogr.</u>, 3:192-214 Effects of an arctic environment on the origin and development of freshwater lakes</p> <p>Description of the physiography of the Alaskan lakes; notes on the plankton & benthos communities in them, fossils found in sediments & estimates of annual production.</p> <p>TL:tl F</p> <p>FAO/58/9/6635</p>	<p>Allon, D.M. & A. Inglis (1958) 582262 <u>Limnol.Oceanogr.</u>, 3:239-41 A pushnet for quantitative sampling of shrimp in shallow estuaries</p> <p>Description of the gear used to sample <u>Penacus sotiferus</u> & <u>P. aztecus</u> in the Gulf of Mexico in areas overgrown with <u>Spartina alterniflora</u>.</p> <p>TL:tl MF</p>

Baker, N., A.P. Gibbons & R.A. Shipley (1958) 582263
Biochim.biophys.Acta, 28:579-86
Observations on the deterioration of glucose-14C

Reports experiments with Chlorella pyrenoidosa.

FAO:sjh

F

Comité Central d'Océanographie et d'Etude des Côtes (1956) 582266
Paris, 375-442
Bulletin d'Information, 10(7)
(Informational Bulletin)

Contains general notes on oceanographic research programmes, notices of publications, tables of hydrographic data obtained by various vessels & original papers (582267, 582268, 582269).

FAO:sjh

II

Tibbs, J. (1958) 582264
Biochim.biophys.Acta, 28:636-7
The properties of algal & sperm flagella obtained by sedimentation

Biochemical study of Polytoma uvella.

FAO:sjh

F

Duboul-Razavot, C. (1958) 582267
Bull.Com.contr.Océanogr., 10:392-406
Le regime des courants superficiels aux abords des côtes du delta de l'Ebre (The surface current regime along the coast of the Ebro delta)

Reports hydrographic surveys made in 1952 & 1956; analyses & discussed results; general discussion of dispersion in sea of river discharge as determined by current charts.

FAO:sjh

M

Kont, P.W. & M.R. Lunt (1958) 582265
Biochim.biophys.Acta, 28:657-8
An aminosugar nucleotide from Carcinus maenas

Biochemical analysis of hypodermal extract of crab sample from English Channel; comparison with results for Maia squinado & Homarus vulgaris.

FAO:sjh

M

Morochkino, K.V. (1958) 582268
Bull.Com.contr.Océanogr., 10:407-12
Les masses d'eau de la partie nord-ouest de l'Océan Pacifique dans la région de la fosse Kourilo-Kamtchatkienne (The water masses in the NW Pacific Ocean in the region of the Kurile-Kamtchatka trench)

French translation of original Russian article, Trav.Inst.Océanol.Acad.Sci. U.R.S.S., 12:155-60, 1955.

FAO:sjh

M

FAO/58/9/6635

<p>Chatel, G. (1958) 582269 <u>Bull. Com. contr. Oceanogr.</u>, 10:413-21 <u>Essai d'interprétation des processus d'érosion littorale dans la région de Coutainville</u> (Essay on the interpretation of littoral erosion processes in the Coutainville region)</p> <p>Influence of sea currents on sand transport on Normandy coast.</p> <p>FAO:sjh M</p>	<p>Wilson, D.P. (1958) 582272 <u>J. Mar. biol. Ass. U.K.</u>, 37:299-307 <u>Notes from the Plymouth aquarium. III.</u></p> <p>Considers the brooding of <u>Spondylisoma cantharus</u>, the sexual display of <u>Labrus ossifagus</u> & learning in <u>Zeus faber</u>.</p> <p>HR:hr M</p>
<p>Eve, C. & A.J. Southward (1958) 582270 <u>J. Mar. biol. Ass. U.K.</u>, 37:267-86 <u>The brooding of <u>Aronicola caudata</u> Johnston and <u>A. branchialis</u> Aud. & Edw. at Plymouth</u></p> <p>Description of the brooding cycles of the species with considerations on their behaviour & development.</p> <p>HR:hr M</p>	<p>Bagenal, T.B. (1958) 582273 <u>J. Mar. biol. Ass. U.K.</u>, 37:309-13 <u>The fecundity of Clyde plaice</u></p> <p>A comparative fecundity study of <u>Pleuronectes platessa</u>.</p> <p>HR:hr M</p>
<p>Morton, J.E. (1958) 582271 <u>J. Mar. biol. Ass. U.K.</u>, 37:287-97 <u>Observations on the gymnosomatous pteropod <u>Clione limacina</u> (Phipps)</u></p> <p>Some features of the digestive & reproductive systems, as well as the habits & swimming of the pteropod <u>Clione limacina</u> are studied from specimens of the dwarf 'southern' race, which occurs at Plymouth.</p> <p>HR:hr M</p> <p>FAO/58/9/6635</p>	<p>Hodley, R.H. (1958) 582274 <u>J. Mar. biol. Ass. U.K.</u>, 37:315-22 <u>Tube formation by <u>Pomatoceros triquetor</u> (Polychaeta)</u></p> <p>The attached tube of <u>P. triquetor</u> is described with special reference to the calcareous grating which is usually found inside the posterior end of damaged tubes. An explanation of the morphology of tube, & of calcareous grating, is attempted with reference to an account of the mode of deposition characteristic of the worm.</p> <p>HR:hr M</p>

Droop, M.R. (1958) 582275
J.Mar.biol.Ass.U.K., 37:323-9
Requirement for thiamine among some
marine and supra-littoral protista

The requirement for thiamine was examined
in 11 marine protists of littoral, supra-
littoral or neritic origin. 6 were found
to have an absolute requirement for the
vitamin. All the spp. requiring thiamine
were auxotrophic with respect to at
least one other factor (usually vitamin
B12).

HR:hr M

Armstrong, F.A.J. (1958) 582278
J.Mar.biol.Ass.U.K., 37:371-7
Phosphorus and silicon in sea water off
Plymouth during 1956

The results of analysis of sea water
from the International Hydrographic
Station E I during 1956 are presented
in graphical form & as integral mean
values for the water column of 70 m.
The seasonal variation is shown.

HR:hr M

Wilson, D.P. & F.A.J. 582276
Armstrong (1958)
J.Mar.biol.Ass.U.K., 37:331-48
Biological differences between sea
waters: experiments in 1954 and 1955

Describes & discusses experiments made
during the breeding seasons of Echinus
oculatus designed to obtain more
informations concerning the factors
responsible for biological differences
between sea waters.

HR:hr M

Alexandrowicz, J.S. (1958) 582279
J.Mar.biol.Ass.U.K., 37:379-96
Further observations on proprioceptors
in crustacea and a hypothesis about
their function

Reports the results obtained with
Eupagurus.

HR:hr MF

Bainbridge, V. (1958) 582277
J.Mar.biol.Ass.U.K., 37:349-70
Some observations on Evadne nordmanni
Lovén

A study of the population of the sp. in
the Clyde Sea Area encompassing
vertical distribution, seasonal
distribution, growth & reproduction,
embryo-number & size, fluctuations in
length & embryo-production during the
year, parthenogenetic & sexual
reproduction, & food & feeding habits.

HR:hr M

Kain, J.M. & G.E. Fogg (1958) 582280
J.Mar.biol.Ass.U.K., 37:397-413
Studies on the growth of marine phyto-
plankton. I. Asterionella japonica Gran

The planktonic marine diatom sp. has
been grown in unialgal but not bacteria-
free, culture under controlled
conditions & its growth has been
measured by means of optical density
determinations & cell counts in
combination.

HR:hr M

Walne, P.R. (1958) 582281
J.Mar.biol.Ass.U.K., 37:415-25
The importance of bacteria in laboratory experiments on rearing the larvae of Ostrea edulis (L.)

In the experiments reported the growth & settlement of oyster larvae was compared in controls of normal sea water with those in which the bacterial flora was controlled with antibiotics.

HR:hr M

Marshall, S.M. & A.P. Orr (1958) 582284
J.Mar.biol.Ass.U.K., 37:459-72
On the biology of Calanus finmarchicus.
X. Seasonal changes in oxygen consumption

The seasonal changes in the respiration of Calanus are considerable & are, on the whole, related to size & therefore to weight. Length alone is not enough to account for the differences since ripe females, although the same length as unripe, have a markedly higher respiration.

HR:hr M

Barnes, H. (1958) 582282
J.Mar.biol.Ass.U.K., 37:427-33
The growth rate of Verruca stroemia (O. Müller)

The mean specific growth rates at half their maximum size are compared for several spp. - Balanus balanoides, B. crenatus, B. balanus, Chthamalus stellatus & Verruca stroemia; it is similar for all spp. except Chthamalus stellatus.

HR:hr M

Forster, G.R. (1958) 582285
J.Mar.biol.Ass.U.K., 37:473-82
Underwater observations on the fauna of shallow rocky areas in the neighbourhood of Plymouth

A brief description is given of the commonest sessile animals observed by diving from 12 positions near Plymouth, incl. 3 offshore reefs.

HR:hr M

Froeman, R.F.H. & J. 582283
Llewellyn (1958)
J.Mar.biol.Ass.U.K., 37:435-57
An adult digenetic trematode from an invertebrate host: Proctococcus subtonuis (Linton) from the lamellibranch Scrobicularia plana (Da Costa)

The spp. of Proctococcus are reviewed, & some revisions suggested. The adult nature of P. subtonuis from Scrobicularia plana is discussed.

HR:hr MF

Crisp, D.J. (1958) 582286
J.Mar.biol.Ass.U.K., 37:483-520
The spread of Elminius modestus Darwin in North-West Europe

Considers changes in distribution since 1946, invasion of the mainland of Europe, means of dissemination, barriers restricting dissemination, probable history of dispersal & ecological effects of the introduction of Elminius.

HR:hr M

Daloz, R. Phillips (1958) 582287
J.Mar.biol.Ass.U.K., 37:521-9

Survival of anaerobic periods by two
intertidal polychaetes, Aronicola marina
(L.) and Owenia fusiformis Delle Chiaje

Measurements of glycogen in the body
wall of Aronicola indicate that glycogen
is consumed during anaerobic conditions.
In Owenia most of the glycogen is stored
in coelomic cells & these deposits are
not drawn upon during anaerobic periods,
yet this sp. can survive long periods
without oxygen, apparently by becoming
quiescent. Oil content in both spp. has
also been measured.

HR:hr

M

Misra, R.K. (1958) 582290
Proc.nat.Inst.Sci.India, 24B:67-78

A new approach to the study of growth-
gradient in the segments of the second
pair of chelipods of the Indian fresh-
water prawns, Palaeomon hendersoni DeMan
(Crustacea: decapoda palaeomonidae)

Application of a general allometry
formula proposed in Proc.nat.Inst.Sci.
India, 23B:42-7 (580584)

FAO:sjh

F

Union Géodésique & Géophysique 582288
Internationale (1958)

Paris, 9-96

Chronique de l'U.G.G.I. no. 11
(I.U.G.G. Chronicle no. 11)

Contains notes on the activities of IUGG
Committee on Geophysics Bibliography,
Scripps Cooperative Oceanography & Tuna
Expedition, International Standard Sea
Water Service & the programme of Polar
Front Survey in North Atlantic.

FAO:tl

M

Woodland, B. (1958) 582291
Trade News, 10(8):3-6

Canada's Atlantic scalfishery

A short account of history of this
industry & its present status, &
possible future.

FAO:sjh

M

U.K. Ministry of Agriculture, 582289
Fisheries & Food (1958)
Fish.Lab., Lowestoft, 26 p.
Fish stock record for 1957

Summarises size & age compositions of
Pleuronectes platessa, Solea vulgaris,
Gadus callarias, G. aeglefinus, G.
merlangus, G. virens, Clupea harengus
catches by English vessels in N.Atlantic
& arctic waters. Summarizes samples,
catches per unit effort, conversion
tables, histograms etc., & gives short
account of condition of each stock
sampled.

SJH:sjh

M

Gillespie, G.J. (1958) 582292
Trade News, 10(8):7-8
Halifax now main centre

Account of current operations.

FAO:sjh

M

FAO/58/9/6635

Anonymous (1958) 582293
Trade News, 10(8):9-12
Studies of fishery resources

Summary account of annual meeting of the Fisheries Research Board of Canada, 6-9/1/58, & review of its activities.

FAO:sjh

MF

Wood, E.M. & al. (1957) 582296
J.Nutr., 61:479-88
The nutrition of salmonoid fishes. II.
Studies on production diets

Describes the diets now used in raising salmonoid fishes in the Pacific coast states, and the variation in the proximate analysis of these diets & relates the diet composition to the body composition of the hatchery production.

FAO:glk

MF

Anonymous (1958) 582294
Trade News, 10(8):13-7
Canadian fisheries production, May - December, 1957

A brief review of production statistics.

FAO:sjh

MF

Halvor, J.E. (1957) 582297
J.Nutr., 62:245-54
The nutrition of salmonoid fishes. IV.
An amino acid test diet for chinook salmon

Feeding experiments on Oncorhynchus tshawytscha.

FAO:sjh

MF

Wood, E.M. & al. (1957) 582295
J.Nutr., 61:465-78
The nutrition of salmonoid fishes. I.
Chemical and histological studies of wild and domestic fish

A report on histological comparisons of hatchery-reared & wild salmonoids to discover the nature & significance of chemical & anatomical differences between such fish.

FAO:glk

MF

Anonymous (1958) 582298
Trade News, 10(9):3-4
Beechwood development

Short ill. account of a hydro-electric dam in New Brunswick & its skip-hoist fish-lift for salmon.

FAO:sjh

MF

FAO/58/9/6635

McLoose, D.W. (1958) 582299
Trade News, 10(9):5-6
Air shipment of lobsters

Note on carrying live Homarus americanus
in 'Bathurst' containers.

FAO:sjh

M

Atay, I. (1958) 582302
Balık Balıkçılık, 6(6):17-21
Somun balığının enterasan hayatı
(Life story of the salmon)

A note on Oncorhynchus fisheries of
U.S. west coast.

SJH:sjh

MF

Artüz, I. (1958) 582300
Balık Balıkçılık, 6(6):7-11
Torik-palamut Sarda sarda ların mevsim
ve senelere bağlı av periyotları. III.
(Catching periods of Sarda sarda in
different seasons and years. III.)

Short paper on fishery for this sp.
in Turkish waters.

SJH:sjh

M

Artüz, M.I. (1958) 582303
Balık Balıkçılık, 6(7):18-21
Memleketimiz balıkçılığının dünya ve
akdeniz balıkçılığındaki yeri - I.
(The place of Turkish fisheries in the
Mediterranean countries and in the
world - I.)

An article dealing with the necessity
of increasing marine fishery products.

SJH:sjh

M

Uygunor, B. (1958) 582301
Balık Balıkçılık, 6(6):12-6
Kıyı gölleri veya lâgünler hakkında
(About the lagoon type of lakes)

A short general article.

SJH:sjh

MF

Unor, S. (1958) 582304
Balık Balıkçılık, 6(7):22-6
Girgir ağı (The Girgir seines)

A feature article describing the seines
used in Turkish fishing boats.

SJH:sjh

M

FAO/58/9/6635

Mazumdar, S.R. (1957) 582305
Curr.Sci., 26:125-6
 A key to the identification of impregnated eggs of common fresh-water fishes of Bengal

A modified key giving features for identification.

F

Wistendahl, W.A. (1958) 582308
Ecol.Monogr., 28:129-53
 The flood plain of the Baritan River, New Jersey

Discussion of literature, general features of flood plains; methods & results of this survey, especially floristic.

GLK:sjh

F

Anderson, W.W. & J.W. Gehringer (1958) 582306
Spec.sci.Rep.U.S.Fish Wildl.Serv., (248) 220 p.
 Physical oceanographic, biological, and chemical data South Atlantic coast of the United States M/V THEODORE N. gill cruise 5

Tabulated & graphed oceanographic data, incl. quantitative & qualitative plankton data & numbers & spp. of fish taken by trolling & dip net.

GLK:tl

M

Winn, H.H. (1958) 582309
Ecol.Monogr., 28:155-91
 Comparative reproductive behaviour and ecology of fourteen species of darters (Pisces-percidae)

Field & laboratory study of individuals & populations of spp. of Porcina, Hadropterus & Etheostoma from Ann Arbor, Michigan & Kentucky & Tennessee.

GLK:sjh

F

Jobson, J.W. & G. Hamoir (1958) 582307
Acta chem.scand., 12:351-2
 Occurrence in plaice myogen of a low molecular weight protein of abnormal amino acid composition

Preparation by electrophoresis & examination by ultracentrifuge & spectrophotometer of component of muscle of Pleuronectes platessa; comparison with previous results for Cyprinus carpio.

FiB:sjh

MF

Anonymous (1958) 582310
Comm.Industr., 16:461-6
 Government Guano Islands Division: sea-bird products

Incl. short account of guano industry of S. Africa.

FAO:sjh

M

FAO/58/9/6635

Downing, K.M. & J.C. 582311
Morkens (1957)
Ann.appl.Biol., 45:261-7
The influence of temperature on the survival of several species of fish in low tensions of dissolved oxygen

Reports experiments with Salmo gairdneri,
Perca fluviatilis, Rutilus rutilus,
Cyprinus carpio, Luciscus luciscus,
Squalius cephalus & Alburnus alburnus.

FAO:sjh

F

Anonymous (1958) 582314
Polar Rec., 9:146-7
United States Navy Hydrographic surveys in Canadian Western Arctic, 1957

Notes on the activities & ice conditions in the area.

FAO:tl

M

Armstrong, T. & B. Roberts (1958) 582312
Polar Rec., 9:90-6
Illustrated ice glossary. Part 2

Mainly glossary for land ice & associated terms.

FAO:tl

MF

Konovalov, I. & R. 582315
Shcherbakova (1957)
Vodn.Transp., 11 November 1957
Method of hastening melting of floating ice

Description of the results of the application of method of sprinkling dark material on ice to hasten melting.

:tl

MF

Anonymous (1958) 582313
Polar Rec., 9:139-40
Expeditions of Norsk Polarinstitutt to Svalbard and East Greenland, 1956 and 1957

Notes on the activities & programme of work for season.

FAO:tl

M

FAO/58/9/6635

Anonymous (1958) 582316
Polar Rec., 9:153-4
Method of hastening melting of floating ice

Review of 582315.

FAO:

MF

<p>Medbøe, O. (1957) 582317 <u>Polarboken</u>, :121-3 Scandinavian Airlines System's sea ice reporting service</p> <p>Notes on the regular sea ice observations carried out by Scandinavian Airlines System over the waters between Svalbard & Greenland.</p> <p>:tl M</p>	<p>U.S.Navy Hydrographic Office (1957) 582320 <u>Washington, D.C.</u>, 70 p. Oceanographic atlas of the polar seas. I.</p> <p>M</p>
<p>Anonymous (1958) 582318 <u>Polar Rec.</u>, 9:156 Scandinavian Airlines System's sea ice reporting service</p> <p>Review of 582317.</p> <p>FAO: M</p>	<p>Permanent International Association of Navigation Congresses (1958) 582321 <u>Bruxelles</u>, Illustrated technical dictionary in six languages. I. The sea</p> <p>Containing 2284 words & expressions in 6 languages; a number of sketches & definitions. Divided into 6 parts: sea water, conditions of the sea, waves; tides, currents; winds, meteorology; marine charts, soundings.</p> <p>M</p>
<p>Anonymous (1958) 582319 <u>Polar Rec.</u>, 9:156-7 Canadian Joint Committee on oceanography: working group on ice in navigable waters</p> <p>Summary of minutes of the meeting of the Canadian Joint Committee on Oceanography held in Ottawa on 25 September 1957.</p> <p>FAO:tl M</p> <p>FAO/58/9/6635</p>	<p>Bykhovskii, B.E. & L.F. 582322 Nagibina (1958) <u>Acta zool.sinica</u>, 10(1):1-18 Predstavitel' novogo semeistva monogeneticheskikh sozal' shchikov (<u>Anchorophorus sinensis</u> Bykhovskii and Nagibina gen. and sp. nov.). <u>Ch</u> <u>Ru</u></p> <p>Ill. description of a specimen, representing a new family (Anchorophoridae) of monogenetic trematoda from <u>Cynoglossus semilaevis</u> gills.</p> <p>FAO:sjh M</p>

Chia-Jui, S. & W. Kang-Nan (1958) 582323
Acta zool.sinica, 10(1):27-30
A new parasitic copepod, Achtheinus
impenderus (Caligoida, pandaridae),
from a shark taken at Poitaiho, Hopei
Province. En Ch

Ill. description of gravid female taken
in 1956 from Triakis scyllium.

FAO:sjh

M

Munro, I.S.R. (1958) 582326
Fish.News Lett.Aust., 17(4):17-20
Handbook of Australian fishes

Ill. notes on spp. Microphis manadensis,
Doryrhamphus melanopleura, Leptoichthys
fistularius, Chocroichthys brachysoma,
Chocroichthys suillus suillus,
Chocroichthys suillus malus, Stigmato-
phora argus, Stigmatophora nigra,
Syngnathoides biaculeatus, Solegnathus
fasciatus, Solegnathus spinosissimus,
Solegnathus guntheri, S. robustus, S.
dunckeri, Haliichthys taeniophorus,
Acentromura australe, A. breviperula,
Hippocampus abdominalis, H. whitci,

Chia-Jui, S. (1958) 582324
Acta zool.sinica, 10(1):31-3
A marine argulid found in China sea

Ill. description of 2 female specimens
of Argulus scutiformis obtained in
1956 from body surface of Discobatus
sinensis.

FAO:sjh

M

582326
(Card 2)
H. angustus, H. kuda, H. tristis,
H. breviceps, H. planifrons, H.
spinosissimus, Phyllopteryx taeniolatus,
& P. taeniolatus.

GLK:sjh

MF

Anonymous (1958) 582325
Fish.News Lett.Aust., 17(4):9
Conference discusses crayfish
conservation

Recommendations for Commonwealth action
on crayfish conservation in the
southern fishery were reached at a
conference in Melbourne in February,
1958.

GLK:sjh

M

U.K. Ministry of Agriculture, 582328
Fisheries & Food (1958)
Fish.Not., (38):23 p.
Sea fisheries research notes, 1957

Incl. notes on research carried out at
U.K. Ministry of Agriculture, Fisheries
& Food Research Laboratories during
1957, under main headings: Aim
(Prediction, fish-finding, conservation,
cultivation); Shollfish.

SJH:sjh

MF

FAO/58/9/6635

Munro, I.S.R. (1958) 582329
Fish.News Lett.Aust., 17(5):17-20
Handbook of Australian fishes

Ill. notes on spp. Phycodurus equus,
equus, P. equus glaucerti, Solenichthys
racoki, S. leptosomus, Aulostomus
chinensis, Fistularia villosa, F.
potimba, Aooliscus strigatus, Centriscus
aristatus, C. scutatus, Macrorhamphosus
clavatus, M. molleri, M. volitans,
Centriscops humerosus, Notopagon lilliei,
Pegasus draconis, Parapogonus notans,
Acanthopogonus lancifer, Melanotaenia
nigrans, M. fluviatilis, M. australis &
M. maccullochi (Solenichthyidae,

Anonymous (1958) 582332
Fish.News Lett.Aust., 17(6):5
Fishes nobody could identify

Notes on captures of Hyperoglypho
porosa (off New South Wales) &
Gasterochisma molampus (off Victoria).

GLK:sjh

M

582329
(Card 2)
Aulostomidae, Fistulariidae,
Centriscidae, Macrorhamphosidae,
Pegasidae & Melanotaeniidae).

GLK:sjh

MF

Anonymous (1958) 582333
Fish.News Lett.Aust., 17(6):7-11, 33
Conference agrees on high seas
fisheries and continental shelf
conventions

Text, with short comment, of high seas
fisheries & continental shelf
conventions & resolutions signed at the
U.N. Meeting in Geneva, Feb.-April,
1958.

GLK:sjh

M

Wells, V. (1958) 582331
Fish.News Lett.Aust., 17(5):23-9
Surveying Aust. pearling beds

Article describing cruise of PAXIE in
Timor & Arafura Seas & Gulf of
Carpentaria.

GLK:sjh

M

FAO/58/9/6635

Fowler, R.M. (1958) 582334
Fish.News Lett.Aust., 17(6):13
Shark closure and marketing

Letter concerning conservation of
school shark stocks off Southern
Australia by close season legislation.

GLK:sjh

M

Butcher, A. Dunbavin (1958) 582335
Fish. News Lott. Aust., 17(6):13, 32
Shark closure and marketing

Reply to 582334.

GLK:sjh

M

Wolls, V. (1958) 582338
Fish. News Lott. Aust., 17(6):29, 34
Surveying Aust. pearling beds

Continuation of 582331.

GLK:

M

Munro, I.S.R. (1958) 582336
Fish. News Lott. Aust., 17-20
Handbook of Australian fishes

Ill. notes on spp. Amneris rubrostriat
tis, Aidaprora carteri, Rhombosoma tri-
fasciata, Rhadinocentrus ornatus, R.
rhombosomoides, Quirichthys stramineus,
Pseudomugil signifer, P. signatus, P.
affinis, P. gertrudae, Tropidostethus
rhopophilus, Taeniomembras microstomus,
T. lincolnensis, T. endorae, T. tama-
ronensis, Taeniomembras elongatus, T.
tropicalis, T. edlonensis, T. rockingham-
ensis, Atherinosoma vorax, Allanetta

GLK:sjh

MF

Starik, I.E. & al. (1958) 582339
Geokhimiia, (1):3-13

K voprosu ob ionievom metode opredole-
niia vozrasta morskikh osadkov (Use
of the ionium method for determining
the age of marine sediment). En

Study of core samples of ocean silt.
Distribution of Fe, Mn, Ca, Th, V, Io,
Ra. 3 distinct zones: littoral, inter-
mediate, high sea. Io contents in the
former are variable. In the latter,
radioactive equilibrium between Ra & Io
favours the ionium method for determin-
ing the geological age of silt.

FAO:go

M

582336
(Card 2)
punctata, Hypoatherina lacunosa &
H. uisila (Tolmatherinidae, Pseudo-
mugilidae, Atherinidae).

FAO/58/9/6635

Baranov, V.I. & L.A. 582340

Kuzmina (1958)
Geokhimiia, (2):99-106
Skorost otlozheniia ilov Indiiskogo
okeana (Rate of silt deposition in
the Indian Ocean). En

Data collected by the Soviet Antarctic
Expedition in 1956. The rate of
sedimentation was measured by the
changing ionium concentration down the
core sample. V, Th, Io, Fe₂O₃, MnO
contents in samples. This method produces
best results at considerable distances
from the shore.

FAO:go

M

Taylor, A.R.A. (1957) 582341
Canad.J.Ros.(Bot.), 35:477-99
Studies of the development of Zostera
marina L. I. The embryo and seed

Morphology of specimens from Canadian
Maritime provinces.

FAO:sjh

M

The Conservation 582344
Foundation (1958)
New York, 39 p.
Annual Report for the year 1957

Incl. references to activities related
to conservation of aquatic resources,
specifically sponsorship of L.A.
Walford's recent study 'Living resources
of the sea: opportunities for research
and expansion', of a survey of basic
hydrological data by W.B. Langbein &
W.G. Hoyt (to be published in 1958 as
'Data for Decision'), of a study of water
low protection of wild life in Alaska,
incl. seals; educational activities,

Taylor, A.R.A. (1957) 582342
Canad.J.Ros.(Bot.), 35:681-95
Studies of the development of Zostera
marina L. II. Germination and seedling
development

Ecology & morphology of this plant in
Prince Edward I area.

FAO:sjh

M

582344
(Card 2)
subsidies & grants given; staff &
council membership; accounts.

FAO:sjh

MF

van Woel, P.B. (1957) 582343
Z.vergl.Physiol., 39:492-506
Observations on the osmoregulation in
Aplysia juliana Pease (Aplysiidae,
Mollusca)

Experimental study of weight changes,
oxygen consumption, blood salinity &
survival in various dilutions of sea
water. Comparison with results for other
spp., especially Mytilus edulis.

GLK:sjh

M

Scripps Institution of 582346
Oceanography, Univ. California (1957)
Berkeley, 363 p.
Oceanic observations of the Pacific,
1949

Tabulated oceanographic data collected
during 1949.

FAO:tl

M

FAO/58/9/6635

Canada. Department of 582347
Fisheries (1958)
Rep. Dop. Fish. Can., (27):42 p.
Fish culture development

Report on cultivation activities with respect to oysters & Salmo salar, S. s. sobago, S. fario, S. iridicus; Salvelinus alpinus, S. fontinalis & Cristivomer namaycush. Tables on egg & larvae collection, rearing & distribution, tagging, selective brooding.

FiB:sjh

MF

Monchadsky, A.S. (1958) 582350
Zool.Zh., 37:680-92
O klassifikatsii faktorov okruzha-iushchoi sredy (On the classification of environmental factors). En

Discussion of the needs & bases for classification & suggestion of a classification of environment based on alteration of the variability of environmental factors.

FAO:tl

MF

Naumov, N.P. (1958) 582348
Zool.Zh., 37:659-79
Nekotorye osnovnye voprosy dinamiki naseloniia zivotnykh (Some principal problems of the dynamics of animal population). En

Dynamics of animal population is regarded as a result of interaction of the population with its environment. The character of this interaction is determined first of all by biological peculiarities of the sp.: fecundity & longevity of its individuals. The correlation of both indices in the sp. belonging to 1 class, sometimes to 1

Latham, R.M. (1958) 582351
Penn.Anglor, 27(2):2-7
The eel ... truly a remarkable creature
A popular article on Anguilla rostrata & A. vulgaris: life history & fishery.

GLK:wad

MF

582348
(Card 2)
order, differs in its regularities & determines general peculiarities of population dynamics of such a natural group.

FAO:sjh

MF

FAO/58/9/6635

Gunston, D. (1958) 582352
Penn.Anglor, 27(2):22-3
How fast do fish swim?

Popular article on maximum speeds attained by different spp., especially over short distances.

GLK:wad

MF

Anonymous (1958)
U.N.Rev., 4(10):3
Sea law conference

582353

Short account of U.N. Conference on the law of the sea, Geneva, February-April, 1958.

FAO:sjh

M

582355
(Card 2)

environment to the plants & animals; non-seasonal variations in the California current system since 1916; possible effects of variation in the current system upon the organisms.

GLK:sjh

M

California Department of Fish & Game (1958) 582354

Terminal Island, 57 p.

Progress Report California Cooperative Oceanic fisheries investigations, 1 July 1956 - 1 January 1958

Contains an extensive review of activities during period in question of the participating organizations, incl. account of the fisheries & the main biological & oceanographic results; annotated list of publications in order of authors' names (see also 582355)

GLK:sjh

M

Maroc, Service Central de Statistiques (1958) 582357

Rabat, 36 p.

Bulletin mensuel de statistique no. 5 (Monthly bulletin of statistics)

Includes monthly tables of fish landings, by areas, for the period March-December 1957.

FAO:sjh

M

Reid, J.L., Jr., G.I. Roden & J.G. Wyllie (1958) 582355

In 'Progress Report. California Cooperative Oceanic Fisheries Investigations', by California Department of Fish & Game, Terminal Island, :27-57, Studies of the California current system

A detailed compilation review, with account of recent work, under headings: the winds over the northeastern Pacific Ocean & their effect upon the water; the currents; the nature of the waters entering the main stream; resultant distribution of properties & their variation with season; relation of the

Maroc, Service Central de Statistiques (1958) 582358

Rabat, 36 p.

Bulletin mensuel de statistique no. 6 (Monthly bulletin of statistics)

Includes monthly tables of fish landings, by areas, for the period January-December 1957.

FAO:sjh

M

California University. Scripps 582359
Institution of Oceanography (1958)
U.S. Bureau of Commercial Fisheries, 14 p.
Scripps Tuna Oceanography Research
Program Quarterly Progress Report no. 3

Analysis of existing oceanographic data;
new & improved techniques (tele-recording
bathythermometer, Roberts current meter,
biological instruments, evaluation of
phytoplankton production measurements);
installation of tide gauges & anchored
station, preparation of cruises.

GLK:sjh

M

Sainio, P. (1958) 582362
FiskTidskr.Finl., 65:80-1
'Roskakalan' hävittämisestä
(Destruction of scrap fish)

The use of dynamite killing of fish in
the small lakes under the ice.

FAO:tl

F

Sainio, P. (1958) 582360
FiskTidskr.Finl., 65:69-72
Taimenon kasvatuksesta metsähallituksen
vosissä (Trout culture in waters
belonging to forest authorities)

Description of construction of trout
ponds established in natural waters in
Finland & their management.

FAO:tl

F

Bonner, J. (1957) 582363
Aust.J.Sci., 19:127-33
Chemical kinetics of growth

A theory of plant growth in terms of
hormonal control.

FAO:sjh

MF

Ryhänen, R. (1958) 582361
FiskTidskr.Finl., 65:72-8
Scharflingin kalanviljelylaitos
(Fish culture station in Schafflingen)

Description of the Austrian station & its
activities.

FAO:tl

F

Webster, H.C. (1957) 582364
Aust.J.Sci., 19:142-4
Australia's participation in the
International Geophysical Year

Incl. oceanographic program.

FAO:sjh

M

FAO/58/9/6635

Boarup, A.J. (1957) 582365
Aust.J.Sci., 19:163
Schistosomes in the nasal passages of aquatic birds

Eggs of Trichobilharzia in nasal mucus of teal duck, Anas gibberifrons in New South Wales.

FAO:sjh

F

Webster, H.L. (1957) 582368
Aust.J.Sci., 20:19
Post-mortem changes in whale muscle - A comparison with the muscle of terrestrial mammals

Abstr. of paper read at meeting of Linnean Society of New South Wales, 29.5.57.

FAO:sjh

M

Gill, E.D. (1957) 582366
Aust.J.Sci., 20:5-9
Report of the ANZAAS Committee for the investigation of quaternary strandline changes

Contains sections on the sediments & depositional environment of the Swan river estuary, Western Australia, marine deposits from the sea-floor off the coast of South-western Australia, near-shore sediments in the vicinity of Rottnest & Garden Islands off Fremantle, Western Australia & organic sedimentation in Warnbro Sound, Western Australia.

FAO:sjh

MF

Balmo, B.E. (1957) 582369
Aust.J.Sci., 20:61-2
Upper palaeozoic microfloras in sediments from the lake Phillipson bore, South Australia

Contents as per title.

FAO:sjh

F

Dawbin, W.H. (1957) 582367
Aust.J.Sci., 20:19
Changes in parasitic infections during the growth of humpback whales

Abstr. of paper read at meeting of Linnean Society of New South Wales, 29.5.57.

FAO:sjh

M

Sapsford, C.M. (1957) 582370
Aust.J.Sci., 20:99-105
An estimation of solar energy radiation for Australia

An approximate method of estimating average daily solar radiation (sun & sky) is outlined, the calculations being based upon published figures; the limitations of this method are stressed, & a recommendation is made for interested organizations & government bodies to collaborate in providing facilities for an extensive network of solar radiation recording stations.

FAO:sjh

F

<p>Davios, J.L. (1957) 582371 <u>Aust.J.Sci.</u>, 20:105-11 The importance of cut and fill in the development of sand beach ridges</p> <p>An essay on the causes of ridge systems in S-E Australia. Periodicity in formation, evidence of sea level changes; wave action.</p> <p>FAO:sjh M</p>	<p>Cook, J.G. (1957) 582374 <u>Discovery</u>, 18:477-9 Seaweed as a source of chemicals</p> <p>A short review article.</p> <p>FAO:sjh M</p>
<p>McKenzie, P. (1958) 582372 <u>Aust.J.Sci.</u>, 20:213-4 The development of beach sand ridges</p> <p>A letter taking up conclusions of Davios, J.L., 1957 (582371)</p> <p>GLK:sjh M</p>	<p>Volpe, H.P. & G.H. Penn (1957) 582375 <u>J.Herod.</u>, 48:91-6 Dimorphism of chromatophore patterns in the dwarf crawfish</p> <p>Ill. analysis of samples of <u>Cambarollus shulfeldtii</u> from eastern Louisiana, collected 2/4/55 - 10/1/56.</p> <p>FAO:sjh F</p>
<p>Bearup, A.J. (1958) 582373 <u>Aust.J.Sci.</u>, 20:219-20 Tromatode parasites in estuarine fish</p> <p>Larval stages of <u>Stictodora</u> Heterophyidae genus in the mollusc <u>Pyrazus australis</u> of L. Narrabeen (near Sidney, Australia); cercariae attacked <u>Gambusia</u> & <u>Athorinosoma</u>, & adult flukes were obtained by feeding infected fish to young gulls (<u>Larus novae-hollandiae</u>).</p> <p>GLK:sjh MF FAO/58/9/6635</p>	<p>Ray, S.M. & W.B. Wilson (1957) 582376 <u>Fish.Bull., U.S.</u>, (123):469-96 Effects of unialgal and bacteria-free cultures of <u>Gymnodinium brevis</u> on fish and notes on related studies with bacteria</p> <p>Experimental demonstration of differing sensitivities of <u>Membras vagrans</u>, <u>Mugil cephalus</u>, <u>Fundulus grandis</u>, <u>Mollicenisia latipinna</u>, <u>Fundulus similis</u> & <u>Cyprinodon variegatus</u> to toxic substances produced by <u>G. brevis</u>. 2 chromogenic marine bacteria, <u>Flavobacterium piscicida</u> Boie & an unidentified red-pigment-producing form from the west coast of Florida, were tested for toxicity to fish; results are discussed.</p> <p>FAO:sjh M</p>

Whitney, L.V. & R.L. Pierce (1957) 582377
Limnol. Oceanogr., 2:55-61
Factors controlling the input of electrical energy into a fish (Cyprinus carpio L.) in an electrical field

A method of measuring fish resistivity is described, & the results of an investigation of the effects of temperature & resistivity on water-to-fish resistivity ratio is presented. The idea is discussed that variation of these conditions may cause changes in energy-input to the fish by factors of 10 or 20 even though voltage gradient in the fish-free water remains constant.

GLK:tl

MF

Odum, H.T. (1957) 582380
Limnol. Oceanogr., 2:85-97
Primary production measurements in eleven Florida springs and a marine turtle-glass community

During July & August 1955, primary production measurements were made in the Florida Keys by means of the diurnal curve method. Diurnal measurements of oxygen & carbon dioxide were used in estimating gross primary production & community photosynthetic quotients. These curves show in detail the course of production hour by hour under various conditions in whole natural communities.

GLK:tl

MF

Ragotzkie, R.A. & L.R. 582378
Pomeroy (1957)
Limnol. Oceanogr., 2:62-9
Life history of a dinoflagellate bloom

A bloom of Gymnodinium sp. in Duplin River, Georgia, USA, in March 1955, is described in terms of its distribution, growth rate, production, & rate of diffusion. Production measurements on a second bloom of the same organism are also cited.

GLK:tl

F

Whittaker, J.R. & J.R. 582381
Vallentyne (1957)
Limnol. Oceanogr., 2:98-110
On the occurrence of free sugars in lake sediment extracts

A semi-quantitative method is described for the determination of free sugars in lake sediments. Qualitative determination of sugars on quantitative determination of sugar within the depth of sediment in 3 Ontario lakes.

GLK:tl

F

Nichol, G.J., Jr. & G.A. 582379
Rounsefell (1957)
Limnol. Oceanogr., 2:70-6
Effects of lake fertilization by volcanic activity on abundance of salmon

Testing the hypothesis that volcanic ash from sporadic eruption may fertilize the lakes & determine the abundance of sockeye salmon in Alaska. The evidence from the following sources is used: free growth, chemical composition of waters of various lakes, plankton volumes & size of young seaward migrating salmon.

GLK:tl

MF

Starr, T.J., D. Martinez & 582382
W. Fosberg (1957)
Limnol. Oceanogr., 2:111-3
The vitamin-B₁₂ activity of mullet and shark serum

Microbiological assay procedures using Euglena gracilis, z strain, were employed to measure the vitamin-B₁₂ activity of samples of mullet, shark, & human sera.

GLK:tl

MF

Starr, T.J., M.E. Jones & D. Martinez (1957) 582383

Limnol.Oceanogr., 2:114-9
The production of vitamin B₁₂-active substances by marine bacteria

The production of members of the vitamin-B₁₂ family of compounds by 34 marine bacteria that were grown in a B₁₂-deficient medium was assayed.

GLK:tl

M

Yontsch, C.S. & J.H. Rythor (1957) 582386

Limnol.Oceanogr., 2:140-2
Short-term variations in phytoplankton chlorophyll and their significance

Description of the diurnal fluctuations of chlorophyll *a* content of phytoplankton population & the corresponding daily rhythm of photosynthesis.

GLK:tl

M

Turner, H.J., Jr. & D.L. Belding (1957) 582384

Limnol.Oceanogr., 2:120:4
The tidal migrations of Donax variabilis Say

Investigations on the behaviour of beach clam in respect of its up & down migrations with the tide & suggestions on the nature of the stimulus causing the migration.

GLK:tl

M

Gorham, E. (1957) 582387

Limnol.Oceanogr., 2:143-54
The chemical composition of some natural waters in the Cairn Gorm-Strath Spey district of Scotland

Some chemical properties of natural waters in the Cairn Gorm-Strath Spey area have been investigated. Differences of ionic concentrations in 24 waters analyzed for pH, Na, K, Ca, Mg, HCO₃, Cl, SO₄, NO₃, PO₄ & SiO₂ are interpreted in terms of variation in geology, topography, local climate & vegetation.

GLK:tl

F

Proctor, V.W. (1957) 582385

Limnol.Oceanogr., 2:125-39
Studies of algal antibiosis using Haematococcus and Chlamydomonas

5 common freshwater algae were grown in the 10 possible 2-membered combinations. Investigations on the factors & rate at which Chlamydomonas eliminates Haematococcus in the culture test of the toxicity of unsaturated fatty acids to the algae.

GLK:tl

F

Ayers, J.C. & R. Bachmann (1957) 582388

Limnol.Oceanogr., 2:155-7
Simplified computations for the dynamic height method of current determination in lakes

Description of the method with tables for specific volume anomaly & coefficient of compression.

GLK:tl

F

<p>Davis, C.C. (1957) 582389 <u>Limanol.Oceanogr.</u>, 2:158-9 <u>Cordylophora lacustris</u> Allman from Chagrin Harbor, Ohio</p> <p>An account of the first record of occurrence for the Great Lakes drainage area (4 November 1956) & the first fresh water record from North America for 35 years. Discusses presumed means of transport.</p> <p>GLK:wad MF</p>	<p>Anonymous (1957) 582392 <u>Trade News</u>, 10(1):6 The "Norwegian Jigger"</p> <p>Ill. note on this new lure for handling cod & pollock, tested off Nova Scotia.</p> <p>FAO:sjh M</p>
<p>Anonymous (1958) 582390 <u>Discovery</u>, 19(1):8-9 The biological productivity of Britain</p> <p>Review of the Symposium held by the Institute of Biology, Oct. 4 & 5, 1957, on 'The Biological Productivity of Britain.' (see 580725 & 580726).</p> <p>F</p>	<p>Anonymous (1957) 582393 <u>Trade News</u>, 10(1):7-10 Canadian fisheries production, May 1956 - April 1957</p> <p>Short review of production statistics.</p> <p>FAO:sjh MF</p>
<p>Rejo, A. (1957) 582391 <u>Trade News</u>, 10(1):3-4 Pair-trawling on the Grand Banks</p> <p>Short ill. article on this method of fishing & its use in NW Atlantic.</p> <p>FAO:sjh M</p> <p>FAO/58/9/6635</p>	<p>Anonymous (1957) 582394 <u>Trade News</u>, 10(4):6-7 Fisheries Research Forum Grande Riviere, P.Q.</p> <p>Short report of a meeting of fisheries scientists, which included a lecture on fisheries oceanography by L.M. Lauzier.</p> <p>WAD:sjh M</p>

<p>Le Cren, E.D. (1958) 582395 <u>Fish.Stud.FAO</u>, (8):52 p. The application of science to inland fisheries</p> <p>Examines physical, chemical & biological factors of aquatic production & its realization as fishery yield & discusses possibilities of increased control of hydrobiological processes.</p> <p>FiB:tjj F</p>	<p>Neal, G.M. (1958) 582398 <u>Canad.J.Res.(Zool.)</u>, 36:95-111 Notes on some dicranophorinae (Rotifera)</p> <p>Reliability of structures. <u>Dicranophorus uncinatus</u> (Milne) has been redesignated as <u>D. aquilus</u> (Gosse) & both spp. are redescribed. <u>D. uncinatus</u> of Weber (nec Milne) is a member of the <u>D. rostratus-grypus</u> group, <u>D. cernuus</u> Herring & Myers is synonym of <u>D. rostratus</u> (D.-N. & F.); <u>D. corystis</u> H. & M. & <u>D. haueri</u> H. & M. are valid spp. distinct from <u>D. rostratus</u>.</p> <p>FAO:sjh F</p>
<p>Vikse, H. (1958) 582396 <u>Aarsberetn.Norg.Fisk.</u>, (6):39 p. <u>Vintersildfisket 1957</u> (Winter herring fishery 1957)</p> <p>Fisheries statistics of the catches, participation & the use of gear in various areas along Norwegian coast.</p> <p>FAO:tl M</p>	<p>Hoar, W.S. (1958) 582399 <u>Canad.J.Res.(Zool.)</u>, 36:113-21 Effects of synthetic thyroxine and gonadal steroids on the metabolism of goldfish</p> <p>Studies of both standard & active metabolism of <u>Carassius auratus</u> agree with most previous findings that thyroid hormone lacks a calorogenic effect while the gonadal steroids stimulate oxygen consumption. Thyroxine, testosterone, or stilboestrol will produce a marked increase in the excretion of nitrogen as measured by changes in the ammonia of the ambient water.</p> <p>FAO:sjh F</p>
<p>Norway. Fiskeridirektøren (1958) 582397 <u>Aarsberetn.Norg.Fisk.</u>, (10):19 p. Beretning om selfangsten, hækjerringfisket og overvintringsekspedisjonene i 1957 (Report on seal and Greenland shark fishery and overwintering expeditions during 1957)</p> <p>Statistics of sealing in the Newfoundland & Greenland areas during 1957.</p> <p>FAO:tl M</p>	<p>Warburton, F.E. (1958) 582400 <u>Canad.J.Res.(Zool.)</u>, 36:123-5 Boring sponges, <u>Cliona</u> species, of eastern Canada, with a note on the validity of <u>C. lobata</u></p> <p><u>Cliona celata</u> occurs in Prince Edward I.; <u>C. lobata</u> in Prince Edward & the Gulf shore of New Brunswick; <u>C. vastifica</u> in the B. of Fundy, off Sable I., off Prince Edward I., & off Newfoundland. Intraspecies grafts of <u>C. celata</u> & <u>C. lobata</u> succeeded, but interspecies grafts failed.</p> <p>FAO:sjh M</p>

Lawler, G.H. (1958) 582401
Canad.J.Res.(Zool.), 36:127-9
Variation in number of dorsal spines in
the brook stickleback, Lucalia
inconstans

Comparative study of occurrence of
specimens with 6 dorsal spines in
Manitoba & Ontario lakes.

FAO:sjh

F

Montreuil, P.L. (1958) 582404
Canad.J.Res.(Zool.), 36:205-15
Corynosoma magdaleni sp. nov. (Acantho-
cephala), a parasite of the gray seal
in eastern Canada

Described from Halichoerus grypus
(Fabricius), & the Atlantic harbor seal,
Phoca vitulina concolor (DeKay), the
latter as an infrequent accidental host
in eastern Canada. Juveniles were found
in Hippoglossus hippoglossus (Linn.) &
Myoxocephalus scorpius (Linn.) in the
Magdalen Islands region of the Gulf of
St. Lawrence.

FAO:sjh

M

Laird, M. (1958) 582402
Canad.J.Res.(Zool.), 36:153-65
Parasites of South Pacific fishes. I.
Introduction, and Haematozoa

Lists fish spp. examined 1952-54,
material obtained, techniques used,
& new host & locality records for
Haemogregarina bigemina & H. mugili
in Clinus perspicillatus & Tripterygion
rufopileum, Norfolk I.

FAO:sjh

M

Montreuil, P.L. (1958) 582405
Canad.J.Res.(Zool.), 36:263-4
Relaxation and fixation of Acantho-
cephala

Technique for treatment of those
helminth parasites from fish, seals etc.

FAO:sjh

M

Laird, M. (1958) 582403
Canad.J.Res.(Zool.), 36:167-73
Parasites of South Pacific fishes. II.
Diplectanum melanesiensis n. sp., a
monogenetic trematode from Fiji and the
New Hebrides

Description of sp. from gills of
immature Epinephelus merra from coral
pools in New Hebrides & Fiji.

FAO:sjh

M

FAO/58/9/6635

Vranovský, M. (1958) 582406
Biológia, 13:451-62
Zoznam perloočiek (Cladocera) zistených
Zitnom ostrove R. 1953-57 (List of
Cladocera found in the Schütt Islands,
Southwest CSR, from 1953-57). De Ru

Description of 79 spp. of Cladocera +
1 variety of which 15 spp. + 1 variety
are considered as new for the fauna of
the CSR.

FAO:dr

F

Babaian, K.I. (1957) 582407
Proc. of the Conference on Fisheries,
Moskva, 1954, :5-6

Vstupitelnoe slovo nachalnika glavnogo upravleniia rybookhrany rybovodstva Ministerstva rybnoi promyshlennosti SSSR (Conservation and pisciculture administration of Fish Industry of USSR)

The development of fishing resources in inland waters, both fresh & salt, is unsatisfactory. With the means at their disposal, scientists & specialists in the field should make an effort towards developing natural & artificial reproduction of both anadromous & pond cultivated fish.

FAO:go MF

Pavlovskii, E.N. (1957) 582408
Proc. of the Conference on Fisheries,
Moskva, 1954, :6-7

Vstupitelnoe slovo Predsedatelia Ikhtiologicheskoi Komissii Akademii Nauk SSSR (Introduction by the Chairman of the Ichthyological Commission of the Academy of Sciences of USSR)

Appeal for a strict analysis at the conference, of achievements & failures. For the setting of further targets towards the development of scientific research & of commercial fish reserves.

FAO:go MF

Tarasiuk, B.F. (1957) 582409
Proc. of the Conference on Fisheries,
Moskva, 1954, :8-15

Sovremennoe sostoianie i perspektivy iskusstvennogo zozvedeniia prokhodnykh i poluprokhodnykh ryb (Present situation & possibilities for artificial breeding of migratory & semi-migratory fish)

Enumeration of existing piscicultural concerns. Shortcomings mainly in the field of scientific research. Lecture divided into statements on the present situation on breeding of Acipenseridae, Salmonidae, Cyprinidae & perchpike,

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live fish-feed, herrings. Reclamation of fish resources in connection with industrial construction on waterways.

FAO:go MF

Kozhin, N.I. & B.I. Cherfas (1957) 582411
Proc. of the Conference on Fisheries,
Moskva, 1954, :16-23

Sovremennoe sostoianie i zadachi nauchno issledovatel'skikh rabot po razvedeniiu prokhodnykh i poluprokhodnykh (Present conditions and targets set for scientific research with regard to breeding migratory & semi-migratory fish)

Aim at throwing light on basic problems of reproduction of anadromous & semi-anadromous fish: scientific research & experiments; improvement of conditions for spawning & incubation; larvae, fingerlings, yearlings & smolt breeding; study of environments, live fish-feed, diseases.

FAO:go MF

Isaev, A.I. (1957) 582412
Proc. of the Conference on Fisheries,
Moskva, 1954, :24-8

Sovremennoe sostoianie i perspektivy razvitiia prudovogo rybnogo khoziaistva v SSSR (Present situation and possibilities for developing pond fish farming in USSR)

Figures showing progress. Importance of selection, appropriate food, pond fertilizer, maintenance. The Ministries of Agriculture & Fish Industry do not pay enough attention to the development of fish farms. Better use for fish breeding should be made of industrial water reservoirs.

FAO:go F

Martyshev, F.G. (1957) 582413
Proc. of the Conference on Fisheries,
Moskva, 1954, :29-37
Sovremennoe sostoianie i zadachi nauchno
isslodovatel'skikh rabot po prudovomu
rybovodstvu (Present situation and
tasks of scientific research on pond
fish breeding)

Full support to fish farming by the
Agriculture Administration is wanting.
Description of achievements by scientists
on biology, behaviour, reproduction,
food resources, selection, diseases,
environment of fish. Combined farming:
water fowl on fish ponds, carp & rice
cultivation. Pond maintenance; advantage
of mixed population.
FAO:go F

Detlaf, T.A. (1957) 582414
Proc. of the Conference on Fisheries,
Moskva, 1954, :47-53
O printsipakh razrabotki rezhimov inkubatsii
ikry ryb (Principles governing the
working out of the incubation process
of fish roe)

Data on which the incubation pattern
should be based. Importance of data
obtained on critical stages. Necessary
conditions for working out the pattern.
Peculiar features of the hatching stage.

FAO:go MF

Emelianov, S.V. (1957) 582415
Proc. of the Conference on Fisheries,
Moskva, 1954, :54-63
Znachenie otsenki kachestvennoi storony
rezultatov iskusstvennogo razvedeniia
ryb (Importance of appraising the
quality of the results obtained with
artificial fish breeding)

Control over any defects in eggs, larvae
& fry is as important in pisciculture as
similar control in cattle or poultry
breeding. Embryos are sensitive to
altered conditions. The author is
contrary to deglutination of roe.

FAO:go MF

Korzhnov, P.A. (1957) 582416
Proc. of the Conference on Fisheries,
Moskva, 1954, :65-70

O fiziologicheskikh metodakh otsenki
kachestva vyrashchivaemoi molodi
promyslovykh ryb (Physiological
methods of appraising the qualities of
the young brood of commercial fish)

Close connection should be established
between studies of morphologists,
physiologists & biochemists. Deals mainly
with blood composition. Hemoglobin
contents of blood is higher in wild than
in artificially raised young sturgeon.
Only detailed studies can enable us to
form judgements on the biologic qualities
of fish we breed.
FAO:go MF

Nikoliukin, N.I. (1957) 582417
Proc. of the Conference on Fisheries,
Moskva, 1954, :71-80

Otdalonnaia gibridizatsiia ryb i ee
prakticheskoe znachenie (Hybridization
of distantly related fish and its
practical importance)

Statements on the basis of experience
with hybridization of Acipenseridae.
The problem consists in producing types
of freshwater, pond-bred reproducible
hybrids of Acipenseridae.

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Mazilkin, I.A. (1957) 582418
Proc. of the Conference on Fisheries,
Moskva, 1954, :81-7

Biologicheskii metod borby s saprolegiiei
(Biological methods of control over
saprolegnia)

Use of antagonistic microbes, microlytic
bacteria, for control over saprolegnia.
Positive results in incubators.
Possibility of extending this method to
natural environments of fish spawn.

FAO:go MF

Gorbil'skii, N.L. (1957) 582419

Proc. of the Conference on Fisheries,
Moskva, 1954, :89-93

Gistofiziologicheskii analiz pishcheva-ritelnoi sistemy osetrovnykh i kostistykh na rannem periode razvitiia i metodika raboty s lichinkami v rybovodstve (Histophysiological analysis of the digestive system of sturgeons & bony fish during the early stages of development & working methods with larvae in fish breeding)

Need for thorough knowledge of structure & functions of the alimentary organs of larvae. The chief biologic basis of productive fish breeding is not proper

Poliakov, G.D. (1957) 582422

Proc. of the Conference on Fisheries,
Moskva, 1954, :104-16

Sravnenie effektivnosti ispolzovaniia kormov prudovymi rybami i sel'skokhoziaistvennymi zhivotnymi (Comparison between effective use of fodder by pond fish and livestock)

Assimilation of exchangeable energy, proportion of food consumption to increase in weight, protein storage etc. Comparison with livestock is in favour of fish.

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fertilization of spawn, but prevention of wholesale loss of larvae at the transition stage from yolk to natural food consumption.

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Dogel, V.A. (1957) 582423

Proc. of the Conference on Fisheries,
Moskva, 1954, :117-22

Znachenie boleznei ryb v vosproizvodstve rybnykh zapasov (Effect of diseases on fish reserves)

Description of fish diseases, their propagation, remedies & preventive measures.

FAO:go

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Konstantinov, A.S. & N.S. 582421

Konstantinova (1957)
Proc. of the Conference on Fisheries,
Moskva, 1954, :95-102

Organizatsiia razvediniia zhivvykh kormov (enkhitroid i khironomid) na rybovodnykh zavodakh (Organization of raising living fodder (enchytreid & chironomidae) on fish farms)

Description of artificial breeding, yields & value as fish-food. Methods for lasting preservation of living fodder.

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Gorbil'skii, N.L. (1957) 582424

Proc. of the Conference on Fisheries,
Moskva, 1954, :124-8

Sostoianie i osnovnye zadachi osetrovodstva v nizoviakh iuzhnykh rek (Conditions & basic problems of sturgeon breeding in the lower course rivers of S.USSR)

According to results of scientific research & production tests, the principal biotechnical problems of sturgeon breeding are solved. The rate, at which accumulated experience is applied on a commercial scale, is inappropriately slow. The main task of science consists in helping to restock the Caspian & Black Seas with Acipenseridae.

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Kazanskii, B.N. (1957) 582425
Proc. of the Conference on Fisheries,
Moskva, 1954, :130-7

Analiz iavlenii, proiskhodiashchikh v iaitsekletkakh osetrovykh pri primenonii gipofizarnykh inioktsii (Analysis of phenomena occurring in the oviducts of sturgeon after hypophysical injections)

Results of cytological study of nuclear alterations within oviducts of sturgeon from the moment of hypophysical injection to complete ovulation & then after fertilization to the first dividing of cleavage nuclei.

FAO:go

MF

Vornidub, M.F. (1957) 582428
Proc. of the Conference on Fisheries,
Moskva, 1954, :160-74

Biologicheskoe obosnovanie metodov polucheniia lichinok osetrovykh iz obeskleinnoi ikry v usloviakh proizvodstva (Biological foundation of methods used for obtaining Acipenseridae larvae from expressed deglutinized spawn under conditions of commercial breeding)

Quality of roc. Causes of variable properties of roc. Effect of deglutination & of incubation methods on the development & losses of eggs & larvae.

FAO:go

MF

Porsov, G.M. (1957) 582426
Proc. of the Conference on Fisheries,
Moskva, 1954, :139-49

Ekspierimentalnoe i tsitologicheskoe dannye o protsesse oplodotvoreniia u sterliadi v sviazi s metodikoi osomoniia (Experimental and cytological data regarding the fertilization process in Acipenser ruthenus in connection with artificial insemination methods)

Study & tests carried out on spawn of Acipenser ruthenus & hybrids (A. ruthenus A. gildenstädti) with the scope of stocking new water reservoirs with fresh-water Acipenseridae.

FAO:go

MF

Iushchenko, P.S. (1957) 582429
Proc. of the Conference on Fisheries,
Moskva, 1954, :176-9

Biotekhnika inkubatsii ikry osetrovykh ryb na r. Don (Incubation technique on Acipenseridae spawn on the Don river)

Description of an incubator in which deglutination of spawn is performed not by hand, but automatically by flow of water from beneath. Eggs are maintained in a suspended state. Dead eggs (Saprolegnia infected) do not stick to healthy ones & are syphoned out of the incubator.

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Sadov, I.A. (1957) 582427
Proc. of the Conference on Fisheries,
Moskva, 1954, :151-9

O roli samtsa v nreoste osetrovykh ryb i o metodakh oplodotvoreniia ikry (The role of males in the spawning process of Acipenseridae and different methods applied for artificial fertilizing of spawn)

Primary importance of the male's function in both the ovulation & the extrusion of spawn. Studies should be completed in order to obtain perfect roc for artificial breeding. Data on artificial fertilization, sperm, dispermia, polyspermia.

FAO:go

MF

Gordionko, O.L. (1957) 582430
Proc. of the Conference on Fisheries,
Moskva, 1954, :180-5

Opyt promyshlonnogo razvodeniia osetrovykh na Kurinskom rybovodnom zavode (Experience of commercial sturgeon breeding at the Kurra fish nursery)

Description of breeding methods & operational conditions at the concern.

FAO:go

MF

Milshstein, V.V. (1957) 582431

Proc. of the Conference on Fisheries,

Moskva, 1954, :186-94

Vyrashchivanie molodi osetrovykh i belorybitsy v prudakh delty Volgi

(Raising of young sturgeon and Stenodus leucichthys in ponds at the Volga delta)

Description of methods & procedure for using the same ponds for raising Acipenseridae fry from larvae & Stenodus leucichthys fry from ripe spawn as a second crop. A third crop consists of fattening carp fingerlings. Pond fertilizer, living food, rate of growth.

FAO:go

MF

Lovanidov, V.Ia. (1957) 582434

Proc. of the Conference on Fisheries,

Moskva, 1954, :219-26

Vyrashchivaniie molodi amurskoi osonnoi koty na rybovodnykh zavodakh

(Raising young autumnal Amur chum salmon (Oncorhynchus keta) in fish nurseries)

Data collected from Teplovka & Bidjan hatcheries. Description of environments, food & growth rate up to the smolt stage of chum & humpback salmon.

FAO:go

MF

Konovalov, P.M. (1957) 582432

Proc. of the Conference on Fisheries,

Moskva, 1954, :195-205

Itogi opytnykh rabot po vyrashchivaniuu molodi scvringi v gruntovykh bassainakh (Results of experiments in raising young Acipenser stellatus in unlined pools)

Indices of growth in relation to density of population & to food consumption. Methods of stocking & feeding. Temperature & gas regime of water.

FAO:go

MF

Chorniavskaia, V.K. (1957) 582435

Proc. of the Conference on Fisheries,

Moskva, 1954, :227-34

Opyt raboty Bidzhanskogo i Toplovskogo rybovodnykh zavodov po razvedeniuu osonnoi kety (Experience at the Bidjan & Toplovka fish hatcheries for autumnal chum salmon breeding)

Possibility of replacing natural reproduction by artificial breeding. Indications that the latter is even more advantageous. Data of the hatcheries on chum salmon reproduction.

FAO:go

MF

Evropoitsova, N.V. (1957) 582433

Proc. of the Conference on Fisheries,

Moskva, 1954, :206-18

Osobennosti perekhoda v pokatnoe sostoianie molodi lososci pri prudovom vyrashchivaniiu (Characteristic features of transition of young salmon to the smolt stage under conditions of pond culture)

Experimental raising of smolts in ponds. Characteristics & requirements at various stages from larva to smolt. Behaviour of pond bred smolts & conditions under which they should be released.

FAO:go

MF

Barach, G.P. (1957) 582436

Proc. of the Conference on Fisheries,

Moskva, 1954, :235-42

Biologia i vosproizvodstvo zapasov chernomorskoi kumzhi (lososia - foreli) (Biology & reproduction of the stock of Black sea salmon-trout (Salmo trutta labrax))

Attempt to solve the problem of artificial reproduction by studying the biology of sea-trout. Classification of the Black sea salmon. Identity of the freshwater & anadromous forms at early stages of development. Spawning migration, growth & seaward run. Natural & artificial reproduction.

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Bozdenezhnykh, P.G. (1957) 582437
Proc. of the Conference on Fisheries,
Moskva, 1954, :243-50

Pervye rezultaty rybovodnogo osvoiniia aralskogo usacha i organizatsia ego iskusstvennogo rozvedeniia v usloviakh stroitelstva Kzyl-Ordinskoi plotiny na Syr-Daric (First results of commercial acclimatization of Barbus brachycophalus & its artificial breeding in conditions created by the construction of the Kzyl-Orda dam on the Syr-Daria river)

Description of contrivances & procedure. Transfer of reproducers; obtainment of ripe spawn, incubation. Transfer of

Berliand, T.B. (1957) 582440
Proc. of the Conference on Fisheries,
Moskva, 1954, :259-67

O napravlonnom formirovanii zapasov karpovykh ryb v iuzhnykh moriakh SSSR i promyshlennom razvedonii kutuma (Planned development of Cyprinidae reserves in southern seas of URSS and commercial breeding of Rutilus frisii kutum)

Data on reproduction biology & breeding biotechniques of rheophilous cyprinidae. Pattern & indices required for R. frisii commercial breeding.

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larvae from spawning grounds to estuary. Raising fry in ponds. Possibility of balancing the effect on maturation of reproducers, produced by the construction of the dam.

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(Card 2)

Tanaisichiuk, V.S., I.K. Vonokov 582441
& T.K. Nebolsina (1957)
Proc. of the Conference on Fisheries,
Moskva, 1954, :268-74

Biologiya razmnozheniia volzhskogo sudaka kak osnova meropriiatii po vosproizvodstvu ego zapasov (Biology of reproduction of the Volga perch-pike as a basis for working out measure for restoring its stocks)

Study of spawning grounds & habits. Conditions in which larvae thrive. Most rational method for reproducing perch-pike stocks is to transport not reproducers but ripe spawn to bodies of water with environment favourable to larvae
FAO:go MF

Sukhanova, E.R. (1957) 582439
Proc. of the Conference on Fisheries,
Moskva, 1954, :251-8

Razvedonic rybtsa i shomai na Kubani (Breeding of Vimba v. vimba natio carinata and Chalcalburnus chalcoides danubicus in the Kuban region)

Causes of stock decreasing & remedies. Studies of behaviour & environment for artificial breeding. Conservation measures.

FAO:go

M

Milshtoin, V.V. (1957) 582442
Proc. of the Conference on Fisheries,
Moskva, 1954, :275-82

Razrabotka i vnedronie metodov povysheniia effektivnosti dolty Volgi (Working out & introduction of methods fit to increase the effective operating of hatchery-nurseries in the Volga delta)

Elimination of reeds & rushes favours the oxygen regime, plankton & benthos development. Organic & mineral fertilization isolation of spawners. Selection of reproducers.

FAO:go

MF

Bologolovaia, L.A. (1957) 582443
Proc. of the Conference on Fisheries,
Moskva, 1954, :283-8

Formirovanie kormovogo planktona v vodoc-
makh nerostovo-vyrostnykh khoziaistv
dolty Volgi (Formation of fodder
plankton in hatchery-nurseries of the
Volga delta)

Study of consequent development of
various plankton spp. in natural &
improved conditions, as a basis for
constituting appropriate live-food
reserves at hatcheries & nurseries.

FAO:go

MF

Mordukhai-Boltovskoi, F.D. (1957) 582446
Proc. of the Conference on Fisheries,
Moskva, 1954, :300-7

Razvitie fauny bezpozvonochnykh v nero-
stovo-vyrostnykh vodoomakh na Donu v
sviazi s vyrashchivaniem v nikh molodi
ryb (The development of invertbrate
fauna in the hatchery-nurseries in
connection with young fish breeding)

Description of living matter appearing
gradually in fish-farm bodies of water.
Variation of species & general amounts
by periods of development & depression.
During the latter, fertilizer should be
applied.

FAO:go

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Karzinkin, G.S. & I.A. 582444
Shokhanova (1957)
Proc. of the Conference on Fisheries,
Moskva, 1954, :289-95

Nekotorye printsipialno novye polozenia
v probleme udobrenia vodoomov (Some
basically new principles in the problem
of fertilizing bodies of water)

The function of mineral phosphorus is
not limited by requirements of vegetal
fish food. Absorbed directly &
assimilated by fishes, it improves their
development.

FAO:go

MF

Tamanskaia, G.G. (1957) 582447
Proc. of the Conference on Fisheries,
Moskva, 1954, :308-13

Vosproizvodstvo sudaka i tarani v
Kubanskikh limanakh (Perch-pike and
Roach reproduction in the Kuban
estuary)

Tentative data on best conditions for
breeding fry of perch-pike & Azov Sea
roach in the channels & lakes of the
Kuban estuary.

FAO:go

MF

Nikolskii, P.D. (1957) 582445
Proc. of the Conference on Fisheries,
Moskva, 1954, :296-9

Effektivnost uplotnomnykh posadok sudaka
na nerost v usloviakh nerostovo vyrost-
nykh khoziaistv na Donu (Efficiency
of increased density of perch-pike
spawners as applied to the Don hatchery-
nurseries)

Description of experiments & yields
according to the number of reproducers
to the hectare. Proportion between perch-
pike & bream as practised at the
hatcheries under study. Duration of
rational co-existence of both species' fry.

FAO:go

F

Rodina, A.G. (1957) 582448
Proc. of the Conference on Fisheries,
Moskva, 1954, :314-22

Dinamika biomassy bakterii i kharakter
mikrobnalnykh protsessov v rybovodnykh
prudakh pri organicheskom i mineralnom
udobrenii (Dynamics of the biomass
of bacteria and the character of micro-
bial processes in fish breeding ponds in
which organic and mineral fertilizer is
applied)

Description of bacteria & their develop-
ment following introduction into ponds of
organic (withered grass) or mineral
(superphosphate or/ & ammonium nitrate)
fertilizer, or both. Abundance of

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(Card 2)

bacteri-plankton & phytoplankton
favours the development of zooplankton.

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(Card 2)

should not be eliminated in fish ponds,
but kept under control.

FAO:go

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Vinberg, G.G. (1957) 582450
Proc. of the Conference on Fisheries,
Moskva, 1954, :323-9

Biologicheskic osnovy effektivnogo
primonenii mineralnogo idobrenii
prudov (Biological principles for an
effective application of mineral
fertilizer to ponds)

Mineral fertilizer is required in fish
ponds only for stimulating development
of phytoplankton. Both phosphates &
nitrates are necessary. The effect is
different when fertilizer is applied to
water or to the bottom of drained ponds.

FAO:go

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Nosal, A.D. (1957) 582453
Proc. of the Conference on Fisheries,
Moskva, 1954, :340-6

Vyrashchivanie sigov v prudakh
Ukrainskoi SSR (Growing white fish
in ponds of the Ukrainian SSR)

Introduction of spawn into Ukrainian
water reservoirs produced bad results.
Successful experiments were carried out
with selected reproducers bred in ponds
from imported fingerlings. Creation of
a local acclimatized stock will open the
possibility of raising whitefish in the
south on a commercial basis.

FAO:go

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Shpot, G.I. (1957) 582451
Proc. of the Conference on Fisheries,
Moskva, 1954, :330-9

Rogulirovanie vodnoi rastitelnosti v
rybovodnykh prudakh s tseliiu
uvolicheniia kolichestva benticheskikh
organizmov kak kormovoi bazy dlia karpa
(Control over aquatic vegetation in fish
breeding ponds with a view to increasing
the quantity of benthic organisms
intended as a basic fodder for carp)

Although benthos is the chief food of
carp, the importance of demersal phyto-
philous animal life should not be under-
estimated. Aquatic vegetation, especially
soft weeds which favour the oxygen regime

Khomchuk, A.A. (1957) 582454
Proc. of the Conference on Fisheries,
Moskva, 1954, :347-51

Letovanie i obrabotka lozha kak metod
povysheniia ryboproduktivnosti prudov
(Estivation & bottom ground treatment of
ponds as a method of increasing fish
productivity)

Estivation means draining & leaving a
fish-pond fallow for the summer. The
bottom is treated appropriately &
cultivated to a crop. Tests performed.
Effect on properties of the soil. Fish-
feed resources. Bearing on vegetation.
Effect on fish productivity. Estivation
as a sanitary measure.

FAO:go

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Molnikov, G.B. & A.M. 582455
 Chaplina (1957)
Proc. of the Conference on Fisheries,
Moskva, 1954, :352-9
 Forsirovanie rosta molodi karpa v
 rybopitomnikakh Dnepropetrovskoi oblasti
 (Stimulating the growth of young carp in
 the fish nurseries of the Dnepropetrovsk
 region)

Description & results of zooplankton
 breeding pools arranged within the ponds
 of fish hatcheries & nurseries. Nature
 & amount of fertilizer & fish-feed.

FAO:go F

Grachova, M.N. (1957) 582458
Proc. of the Conference on Fisheries,
Moskva, 1954, :381-5
 Osnovnye printsipy vyrashchivaniia
 raduzhnoi foreli (Basic principles
 for growing rainbow trout)

Stimulation of natural food to reduce
 cost at initial stage. Proportion of
 vegetal foodstuffs in artificial feed.
 Density of population in ponds according
 to season. Death rate & yields.

FAO:go F

Kapustin, N.P. (1957) 582456
Proc. of the Conference on Fisheries,
Moskva, 1954, :360-6
 Donnoe gazootdelenie i rozhim zimovki
 karpa v kolkhoznykh prudovykh khoziaist-
 vakh USSR (Gas liberated from the
 bottom & the regime of carp wintering
 in collective farms' fish ponds in the
 Ukrainian SSR)

Analysis of gases liberated from the
 bottom, for controlling death rates in
 ice-bound carp-ponds. The main cause is
 the critical O₂: CO₂ ratio.

FAO:go F

Stroganov, N.S. (1957) 582459
Proc. of the Conference on Fisheries,
Moskva, 1954, :386-98
 Ekologo-fiziologicheskoe issledovanie
 po vyrashchivaniiu osetrovykh ryb v
 prudakh Moskovskoi oblasti
 (Ecological & physiological research for
 sturgeon breeding in ponds of the
 Moscow region)

Growth of Acipenseridae in ponds. Mono-
 culture or combined breeding with
 herbivorous fish is recommended. Natural
 & artificial food. Density, death rate,
 loss of weight & chemical composition of
 wintering sturgeon in ponds.

FAO:go F

Kirpichnikov, V.S. (1957) 582457
Proc. of the Conference on Fisheries,
Moskva, 1954, :367-80
 Sozdanie novoi severnoi gibridnoi porody
 karpa (Creation of a new variety of
 northern hybrid carp)

Hybrid of domestic carp with the cold-
 resisting Amur wild species. Repeated
 cross-breeding, procedure & results.

FAO:go F

Bauer, O.N. (1957) 582460
Proc. of the Conference on Fisheries,
Moskva, 1954, :399-403
 Vliianie parazitarnykh zabolovanii na
 ryboproduktivnost prudov (Influence
 of parasitic diseases on fish
 productivity in ponds)

Main reason of infection - excessive
 density of the same spp. intermixing of
 reproducers & larvae. Prevention &
 remedies - periodical ostivation of
 ponds (draining & leaving fallow for a
 season, treatment of the bottom),
 combined breeding of unrelated spp.,
 control over living food.

FAO:go F

Mazokhin-Porshniakov, G.A. (1957) 582461
Proc. of the Conference on Fisheries,
Moskva, 1954, :404-5

Ispolzovanie ultrafioletovogo izlucheniia v borbe s vrodnyimi nasokamymi v prudo-vykh khoziaistvakh (Use of ultra-violet irradiation in the control over harmful insects on pond fish-farms)

Invisible light, ultraviolet rays, produced by quartz-mercury lamps, attracts more insects than ordinary light. Simple insecticide contrivances attached. Tentative indication of time of night & conditions for attracting noxious aquatic insects without harming the useful.

FAO:go F

Kokhnonko, S.V. (1957) 582464
Fish.Ind., Moscow, 33(4):66-8

Rasprostranenie i ulovy ugria v vodoc-makh Belorusskoi SSR (Propagation & catches of eels in Belorussian SSR bodies of water)

Data on natural propagation & artificial stocking of lakes with eels. Favourable conditions for fishing & data on catches.

FiB:go MF

Nikolskii, G.V. (1957) 582462
Fish.Ind., Moscow, 33(4):60-4

Rekonstruktsiia stoka basseina Amura i voprosy rybnogo khoziaistva (Re-arrangement of the Amur basin riverflow & problems of pisciculture)

Proposed hydraulic projects & ensuing fish conservation problems. Suggestions on fishways, nurseries, artificial spawning grounds for anadromous fish. On thorough studies of eventual harm caused to both spawners & smolts during their run over hydraulic structures. Effect on resident fish.

FiB:go MF

Irikhimovich, A.I. & A.G. 582465
Konradt (1957)

Fish.Ind., Moscow, 33(4):68-9
K voprosu ob akklimatizatsii Chudskogo siga v vodocmakh Moldavii (Problem of acclimatizing lake Chudskoo whitefish in Moldavian bodies of water)

Whitefish, introduced into ponds, greatly differing by the chemical composition & temperature of water from their native lake, produced specimens with favourable weight & sexual maturity indices. Acclimatization in Moldavia proved possible.

FiB:go F

Trotiakov, F.F. (1957) 582463
Fish.Ind., Moscow, 33(4):64-6

K okhrane osetrovykh v Kaspiiskom basseine (Conservation of Acipenseridae in the basin of the Caspian Sea)

States figures denoting dangerous reduction of sturgeon reserves. Suggests to forbid the use of certain gear & to limit fishing grounds.

FiB:go MF

Ryzhenko, M.I. (1957) 582466
Fish.Ind., Moscow, 33(5):14-8

Lov solda raznoglubinnym tralom (Herring fishing by trawls operated at variable depths)

Catches effected by variable-depth trawls. Advantages over drift nets; every trawler should be provided with echo-sounders. Trawls must be lighter & stronger. Methods for discharging fish should be improved & fishing pumps introduced. Crews should be better trained for following shoals.

FiB:go M

FAO/58/9/6635

Soloviev, B.S. (1957) 582467
Fish.Ind., Moscow, 33(5):23-5
Ob otbiraiushchei setei (Selectivity
of nets)

Operational tests of selectivity carried
out on herrings by Atlantic fisheries.
Data on the relation between sizes of
fish & mesh with regard to the former's
fatness & spawning conditions.

FiB:go

M

Chortov, L.F. (1957) 582470
Fish.Ind., Moscow, 33(5):66
Borba s zagriazneniim rybokhoziaist-
vennykh vodocmov - vazhnaia gosudarst-
vennaia zadacha (Control over
pollution of fish producing inland
waters - an important state problem)

Brief summary of discussions at a
meeting promoted by the Academy of
Science. Representatives of industrial
ministries & of the principal sanitary
piscicultural institutions took part in
the discussions.

FiB:go

F

Zaichik, K.S. (1957) 582468
Fish.Ind., Moscow, 33(5):26-7
Iz opyta ekspluatatsii rybonasosnykh
ustanovok (Operational experience
with fish-pumping plants)

Suggestions for improving fish-pumping
plants: mechanization of certain
operations; adequate protection of
electric motors & lamps; cooling of fish
before storing in the hold.

FiB:go

M

Berdichovskii, L.S. (1957) 582471
Vop.Ikhtiol., (9):3-18
Sostoianie i puti uvelicheniia zapasov
tsennykh promyslovykh ryb v vodocmakh
SSSR (Situation of & ways to increase
the reserves of valuable commercial fish
in bodies of water in USSR)

The increase of overall catches is due
to the development of high sea fisheries.
Catches in inland waters, both fresh &
salt, are considerably decreasing.
Causes: water pollution, lowering of
inland seas' level, obstruction of
estuaries etc. Remedios: conservation
measures, regulated fishing, artificial
breeding.

FAO:go

MF

Kiselev, O.N. (1957) 582469
Fish.Ind., Moscow, 33(5):62-5
O raspredelenii i povedonii treski i
pikshi v Barentsovom more
(Distribution & behaviour of cod &
haddock in the Barents sea)

Data collected by an exploring ship by
means of echo-sounders. Concentrations
& migrations, both horizontal & vertical.
Depth below the surface seems to be a
more important factor than height over
the bottom. Density of shoals increases
in shallow water.

FiB:go

M

Palonichko, Z.G. (1957) 582472
Vop.Ikhtiol., (9):19-28
Osnovnye zakonomernosti razvitiia belo-
morskoi ikhtiofauny (Basic laws of
development of the White sea fish
population)

Description of peculiar features of the
White sea water regime. Local &
migratory fish. Possibilities for
acclimatizing certain ocean spp. producing
demersal adhesive spawn. Certain spp.
of the genera Coregonus & Stenodus could
thrive in brackish bays at river
estuaries.

FAO:go

MF

Koblitskaia, A.F. (1957) 582473
Vop.Ikhtiolog., (9):29-54
Znachenie nizovioy delty Volgi dlia
neresta ryb (Importance of the lower
part of the Volga delta for use as
spawning ground by fishes)

Data on spawning of various spp.
Pattern of the delta consisting of 3
main belts. Flood-water regime,
temperature & their bearing on spawning
processes.

FAO:go

MF

Zhukovskii, G.M. (1957) 582476
Vop.Ikhtiolog., (9):78-90
Nerestovye migratsii i mesta neresta
donskogo rybtsa Vimba vimba natio carinata
(Spawning migrations & spawning
grounds of Vimba vimba natio carinata)

Data, collected prior to the construction
of the Tsymla water reservoir, on the
behaviour & maturity of reproducers at
different seasons & points of the river.
Up to date studies & conservation
measures recommended.

FAO:go

MF

Aleksceva, S.P. (1957) 582474
Vop.Ikhtiolog., (9):55-67
Materialy po izucheniui polovogo tsikla
sazana delty Volgi (Results of
studies carried out on the sexual cycle
of wild carp in Volga delta)

Characteristics of the spawning process,
behaviour of reproducers, influence of
hydrologic factors on the development
of oviscols. Studies carried out in
natural & artificial surroundings.

FAO:go

MF

Zamakhaov, D.F. (1957) 582477
Vop.Ikhtiolog., (9):91-114
Izmeneniia polovogo i razmernogo sostava
seldoi v period migratsii (Changes
occurring in the sex & size proportions
among Clupeidae during the migratory
period)

Studies carried out with Caspian &
Azov-Black Sea marine & anadromous spp.
of the genus Alosa. At the same age
males are smaller than females. Males
become sexually mature earlier. Females
live longer.

FAO:go

MF

Altukhov, K.A. (1957) 582475
Vop.Ikhtiolog., (9):68-77
Nerestilishcha i usloviia neresta seldi
v Kandalkshskom zalivo (Spawning
grounds & conditions in which herrings
spawn in the Kandalaksha bay)

Description of methods & gear used.
The White Sea herring deposits its eggs
in shallow water on certain algae.
Location & extent of spawning grounds.

FAO:go

M

Ginsburg, Ia.I. (1957) 582478
Vop.Ikhtiolog., (9):115-28
O biologii molodi osetrovykh reki Kury
(Biology of young Acipenseridae in the
river Kura)

Data on spawning & fry behaviour in
natural conditions, prior to
construction of hydraulic works, useful
for rational breeding of Acipenseridae.
Influence of floods & strength of river-
flow on the quality of seaward born fry.
Peculiarities of different spp.

FAO:go

MF

Salnikov, N.E. (1957) 582479

Vop.Ikhtiolog., (9):129-32

О sluchaiakh giboli khamsy v Azovskom more (Cases of wholesale death of anchovies in the Azov sea)

Anchovies perish in large quantities owing to abrupt drops of temperature, to a short fattening season, of to deficiency of plankton, which leaves them unprepared for wintering in the Black sea. Plankton deficiency is caused largely by the harnessing of the Don riverflow.

FAO:go

M

Protasov, V.R. (1957) 582482

Vop.Ikhtiolog., (9):144-6

Reaktsiia nekotorykh Chernomorskikh ryb na svot (Reaction to light of some Black sea fish)

Description of experiments performed in aquariums on soad, sciaenids & young sturgeon. Different reaction to light with regard both to colour & intensity.

FAO:go

MF

Datsko, V.G. (1957) 582480

Vop.Ikhtiolog., (9):133-41

Gidrokhimicheskii rozhim Chernogo moria i ego znachenie dlia razvitiia rybolovstva (Hydro-chemical regime of the Black sea & its importance for the development of fisheries)

According to an established opinion, the Black sea is divided into 2 strates: upper oxydizing & the lower anaerobic reducing zones. Data on studies carried out for disclosing contents & vortical exchange of substances & the conditions for development of marine life.

FAO:go

M

Bukirov, A.I. & Z.M. 582483

Pushkina (1957)

Vop.Ikhtiolog., (9):147-51

O nekotorykh urodstvakh u ryb (Certain monstrosities occurring in fishes)

Description of 2 specimens, a chub & a perch as compared to normal forms. Teratological studies should be promoted with regard to causes & laws.

FAO:go

F

Erik, V.A. (1957) 582481

Vop.Ikhtiolog., (9):142-3

Ob ozimyykh i iarovyykh rasakh u rechnoi minogi Lampetra fluviatilis L. (Winter brooding & summer brooding strains of the river lamprey L. fluviatilis L.)

The existing winter & summer breeds is contradicted by experimental studies of the development & maturation of specimens, chosen among lampreys entering the rivers both in autumn & in spring.

FAO:go

MF

Zhukova, A.I. (1957) 582484

Vop.Ikhtiolog., (9):152-68

Znachenie mikroorganizmov dlia kormevoi bazy ryb (Importance of microorganisms for the food reserves of fishes)

Brief description of micro-biologic worms on invertebrates' nutrition. Experimental studies on the function of bacteria in the alimentation of benthic invertebrates of the northern area of the Caspian sea.

FAO:go

MF

FAO/58/9/6635

Assman, A.V. (1957) 582485
Vop.Ikhtiolog., (9):169-87
Mikroorganizmy kak donatory vitaminov
dlia pitaniia molodi ryb (Micro-
organisms as a source of vitamins in the
food of young fish)

Experiments carried out on artificial
food of various fishes. Vitamin
contents in microbe cultures. Daily
rations. Effect on the growth & health
of fish.

FAO:go

MF

Drosschor, Th.G.N. & 582488
A.J.J. Gispden van der Weg (1958)
Hydrobiologia, 11:93-8
Quelques organismes sporadiques du
plancton de la région d'Amsterdam
(Some sporadic organisms of plankton in
the Amsterdam area)

Describes Actinomyxids of genus
Triactinomyxon parasitic in Tubifex
tubifex of freshwaters in surroundings
of Amsterdam.

FAO:sjh

F

Braginskii, L.P. (1957) 582486
Vop.Ikhtiolog., (9):188-91
Razmerno-vesovaia kharakteristika
rukovodiashchikh form prudovogo zoo-
planktona (Characteristics by size
& weight of the principal species of
pond zooplankton)

Average weight of spp. of different sex
& stage of development. Consumption
by carp fry.

FAO:go

F

de Ridder, M. (1958) 582489
Hydrobiologia, 11:99-118
Recherches sur les rotifères des eaux
saumâtres. III. Quelques rotifères de
la Camargue (Researches on the
rotifers of brackish waters. III. Some
rotifers from Camargue)

Notes on occurrence of spp. found in
April, 1957, with some data on physico-
chemical conditions of the environment.

FAO:sjh

F

Korzhuev, P.A. & L.I. 582487
Radzinskaia (1957)
Vop.Ikhtiolog., (9):192-6
O mikrometode opredeleniia gemoglobina
(Micro-method for disclosing homo-
globin)

Description of the pyramidon method of
testing blood for hemoglobin, as
compared to other methods. The high
sensitivity makes possible the analysis
of strongly diluted blood with low
hemoglobin contents. Convenient for use
on small invertebrates, fish fry etc.

FAO:go

MF

Round, F.E. (1958) 582490
Hydrobiologia, 11:119-27
Observations on the diatom flora of
Braunton Burrows, N. Devon

Spp. composition of samples from aquatic
habitats in this dunes area.

FAO:sjh

F

Irónó-Mario, I.C. (1958) 582491
Hydrobiologia, 11:128-42
Les Staurastrum de la Gaspésie P.Q. Can.
(The Staurastrum from Gaspésie P.Q. Can.)

Description of & notes on spp. of the
genus Staurastrum in province of Quebec.

FAO:sjh F

van Oye, P. (1958) 582494
Hydrobiologia, 11:182-3
Prof. Dr. August Thienemann 75 years

A short biography of this limnologist.

FAO:sjh F

Lund, J.W.G., C. Kipling & 582492
J.D. Le Cron (1958)
Hydrobiologia, 11:143-70
The inverted microscope method of
estimating algal numbers and the
statistical basis of estimations by
counting

Various methods for estimation of
populations of algae & other small fresh-
water organisms are described. A method,
basically that of Utermöhl, of counting
is described in detail using an inverted
microscope. Data are also given for a
variant using a normal microscope & for
a method of using a haemocytometer for
the larger plankton algae.

FAO:sjh MF

Pourriot, R. (1958) 582495
Hydrobiologia, 11:189-97
Sur l'élevage des rotifères au
laboratoire (Rotifer breeding in
the laboratory)

2 years' work on culture to raise
additional spp. without reducing
production. Discusses habitat, feeding
habits & breeding of spp. of Brachionus,
Keratolla, Euchlanis, Platyias, Rotaria,
Trichotria, Mytilina, Ancurocopsis,
Notholca, Trichocerca, Notonmata,
Eosphora, Dicranophorus & Ptygura.

FAO:tjj F

Hesse, P.R. (1958) 582493
Hydrobiologia, 11:171-81
Fixation of sulphur in the muds of Lake
Victoria

Analyses of muds, respirometer
experiments, sorption of sulphates.

FAO:sjh F

Ford, J.B. & R.E. Hall (1958) 582496
Hydrobiologia, 11:198-204
A grab for quantitative sampling in
stream muds

Reviews the characteristics required in
samples from a small area of muddy
bottom & describes a new grab capable of
taking accurate samples to a known
depth.

FAO:wad F

Cholnoky, B.J. (1958) 582497
Hydrobiologia, 11:205-66
Hydrobiologische Untersuchungen in
Transvaal II. Selbstreinigung im Jukskoi
Crocodile Flusssystem (Hydro-
biological investigations in Transvaal
II. Self purification in the Jukskoi-
crocodile river system)

Lists of phytoplankton flora from
various localities in the river system
& discussion on the self-purification
using phytoplankton as indicator
organisms.

FAO:tl

F

Woodhead, N. & R.D. Twaad (1958) 582500
Hydrobiologia, 11:299-395
A check list of tropical West African
algae

Lists spp. recorded from those areas
between the tropics of Cancer &
Capricorn.

FAO:wad

MF

Spaas, J.T. (1958) 582498
Hydrobiologia, 11:267-74
Contributions to the comparative
physiology and genetics of the European
salmonidae. I. Method for the
determination of the oxygen consumption
in Ova, Alevins and fishes of different
sizes

Describes a method of measuring oxygen
content of water before & after it
passes the test organism.

FAO:wad

MF

Szidat, L. (1958) 582501
Arch. Hydrobiol., 54(1-2):174-208
Versuch einer Analyse des Problems der
Anpassung von Meerestieren an das Süß-
wasser (Attempt to analyse the
problems of acclimatization of marine
animals in fresh water)

Review of existing literature on the
physiological problems of relicts &
migratory animals.

FAO:tl

MF

Moens, N.L. Wibaut-Isobree (1958) 582499
Hydrobiologia, 11:275-98
Plankton from the Noordzeekanaal

Describes studies, 1936-37, on the
relationships of the plankton in this
canal to other basins in the
Netherlands & to the North Sea.

FAO:wad

MF

Poquognat, W.E. (1958) 582502
Sci. Amer., 198(1):84-90
Whales, plankton and man

Ill. popular review of ecology of the
group.

FAO:sjh

M

McLellan, H.J. (1958) 582503
J.Fish.Res.Bd Can., 15:115-34
Energy considerations in the Bay of Fundy system

The rates at which tidal energy is dissipated in the area in various ways are calculated, the Passamaquoddy Project is evaluated & the effect which the extraction of additional power from the system would have on tidal range is evaluated.

GLK:t1

M

Lawler, G.H. & N.H.F. 582506
Watson (1958)
J.Fish.Res.Bd Can., 15:203-16
Limnological studies of Heming lake, Manitoba, and two adjacent lakes

Describes chemical, physical & biological studies of small eutrophic lakes conducted as part of investigations on control of Triacnophorus. Lists flora & fauna including 13 spp. of fish & a sp. of fish parasites.

GLK:wad

F

Dingle, J.R. (1958) 582504
J.Fish.Res.Bd Can., 15:135-53
Proteins in fish muscle. II. On the extraction of myosin from cod muscle with potassium iodide

Describes methods used in extracting a substance from Gadus callarias, compares it with myosins from other cold-blooded animals & with rabbit myosin, & compares it with cod actomyosin with respect to electrophoresis, sedimentation, viscosity & solubility.

GLK:wad

M

McLaron, I.A. (1958) 582507
J.Fish.Res.Bd Can., 15:219-27
Some aspects of growth and reproduction of the bearded seal, Erignathus barbatus (Erxleben)

Based on material from 113 specimens from the Canadian Arctic, discusses growth, age determination, age at maturity, breeding season, sexual cycle & relationships between growth & sexuality.

GLK:wad

M

Dunbar, M.J. (1958) 582505
J.Fish.Res. Bd Can., 15:155-201
Physical oceanographic results of the CALANUS expeditions in Ungava Bay, Frobisher Bay, Cumberland Sound, Hudson Strait and Northern Hudson Bay, 1949-55

Bathymetry, temperature, salinity & density profiles, description of density increasing & hydrodynamic pattern of the area.

GLK:t1

M

Alderdice, D.F., W.P. Wickett 582508
& J.R. Brett (1958)
J.Fish.Res. Bd Can., 15:229-49
Some effects of temporary exposure to low dissolved oxygen levels on Pacific salmon eggs

Describes experiments with Oncorhynchus keta.

GLK:wad

F

Hoar, W.S. (1958) 582509
J.Fish.Res.Bd Can., 15:251-74.
Rapid learning of a constant course by
travelling schools of juvenile Pacific
salmon

Describes experiments with actively
migrating Oncorhynchus keta, O.
gorbuscha & O. nerka.

GLK:wad

MF

Herbert, D.W.M. & H.T. 582512
Mann (1958)
Salm.Trout Mag., (153):99-101
The tolerance of some fresh-water fish
for sea water

Methods used & results obtained in
experiments with Rutilus rutilus & Perca
fluviatilis.

FAO:wad

MF

van Someren, V.D. (1958) 582510
Salm.Trout Mag., (153):77-82
Correspondence

Comments on fishways & fish screens
with special reference to an article
"New approach to fish pass design", by
Sedgwick, Salm.Trout Mag., May 1957.

FAO:wad

MF

Healy, A. & M. Kennedy (1958) 582513
Salm.Trout Mag., (153):102-14
Trout in Lough Glore, Co. Westmeath,
Ireland

Describes studies on Salmo trutta in an
87-acre lake: age-growth; stomach
contents; parasites; population
estimations (tag & recapture); redd
enumeration; predation by Esox.

FAO:wad

MF

Mansfield, K. (1958) 582511
Salm.Trout Mag., (153):94-8
Pike-perch in England

Discusses the history & present status
of Lucioperca sandra & Stizostedion
vitreum in England.

FAO:wad

F

Went, A.E.J. (1958) 582514
Salm.Trout Mag., (153):122-30
Historical notes on the fisheries of
the river Barrow

Describes the fish & fisheries of an
Irish salmon stream.

FAO:wad

MF

FAO/58/9/6635

Anonymous (1958) 582515
Nature, Lond., 181:1115-6
The sea otter

Notes on the life history, habits,
extermination & present conservation
of the species on the Northwest
Pacific Ocean.

GLK:hr

M

Hoylo, G. (1958) 582518
Nature, Lond., 181:1134
Two inhibitory fibres forming synapses
with a single cell

Discussion with respect to crustacea.

GLK:wad

M

Saito, T., Ken-Ichi Arai & 582516
T. Tanaka (1958)
Nature, Lond., 181:1127-8
Changes in adenine nucleotides of squid
muscle

Methods & results of a study following
freezing & comparison with results
obtained from a similar study of carp-
muscle.

GLK:wad

MF

Abramson, H.A., B. Weiss & 582519
M.O. Baron (1958)
Nature, Lond., 181:1136-7
Comparison of effect of lysergic acid
diethylamide with potassium cyanide and
other respiratory inhibitors on the
Siamese fighting fish

Contents as per title.

GLK:wad

F

De Marco, C. & E. Antonini (1958) 582517
Nature, Lond., 181:1128
Amino-acid composition of haemoglobin
from Thunnus thynnus

Results as determined by chromatography
on an ion-exchange resin.

GLK:wad

M

Ryland, J.S. (1958) 582520
Nature, Lond., 181:1146-7
Bugula simplex Hincks, a newly
recognized polyzoan from British waters

Distributional records, comparison with
other spp., partial description.

GLK:wad

M

Boauchamp, R.S.A. (1958) 582521
Nature, Lond., 181:1634-6
Utilizing the natural resources of Lake
Victoria for the benefit of fisheries
and agriculture

A review of knowledge of hydrobiology
of this area, incl. results of study of
Tilapia stocks & fisheries

GLK:sjh

F

Stolk, A. (1958) 582524
Nature, Lond., 181:1660
Pathological parthenogenesis in
viviparous toothcarps

Description of process in Lebistes
reticulatus & Xiphophorus helleri, &
its relation to parasitization by the
phycomycete Ichthyophonus hoferi.

GLK:sjh

F

Corbin, P.G. (1958) 582522
Nature, Lond., 181:1659
A new British fish (Gabius forsteri)

Description & biological notes on fish,
many specimens of which have been
caught by G.R. Forster during
SCUBA diving in English Channel &
coast of Spain.

GLK:sjh

M

Koefoed, E. (1958) 582525
Rep.Sars N.Atl.Deep Sea Exped., 4 Pt.2
(6)

Isospondyli 2:Heterophotodermi, 1 (with
addenda and corrigenda to Isospondyli 1)

M

Eltringham, S.K. & A.R. 582523
Hockley (1958)
Nature, Lond., 181:1659-60
Cocexistence of three species of the
wood-boring isopod Limnoria in
Southampton water

L. lignorum, L. quadripunctata & L.
tripunctata in piles & test blocks.

GLK:sjh

M

Henry, D.P. (1957) 582526
Proc.U.S.nat.Mus., 107(3381):25-38
Some littoral barnacles from the
Tuamotu, Marshall and Caroline Islands

M

<p>Walford, L.A. (1958) 582527 <u>Ronald Press Co., New York, 305 p.</u> <u>Living resources of the sea</u></p> <p>Provides systematic appraisal of what is known about the sea & its inhabitants. Examines the possibility of increasing the use of the sea's living resources; covers fishes, reptiles, seaweeds, mammals; discusses plankton harvesting, farming brackish waters, & improving fishing vessels & gear.</p> <p>:sjh M</p>	<p>Found, H.R. (1957) 582530 <u>Trade News, 10(6):3-7</u> <u>The Atlantic oyster industry</u></p> <p>A short review article of this Canadian Atlantic coast industry, under headings: leases, experimental forms, starfish control. Notes on water quality, resistant strains to 'Malpeque' disease.</p> <p>FAO:sjh M</p>
<p>Sastry, A.V.R. & C. 582528 Mahadevan (1957) : <u>J.sci.industr.Res., 16B:429-31</u> <u>Radioactivity of sea-floor sediments off Visakhapatnam</u></p> <p>From radioactivity & carbonate content data it is inferred that high carbonate content corresponds to low radioactivity of sediment. The data also support earlier work on zonal distribution of these sediments.</p> <p>FAO:sjh M</p>	<p>Anonymous (1957) 582531 <u>Trade News, 10(6):8-12</u> <u>Emphasis on research at INPFC Meeting</u></p> <p>Short report of 4rd Annual Meeting of International North Pacific Fisheries Commission in Vancouver, 4-9/11/57, & incl. text of address by the Commission Chairman.</p> <p>FAO:sjh MF</p>
<p>Frick, H.C. (1957) 582529 <u>Trade News, 10(5):14-9</u> <u>The commercial fisheries of Canada</u></p> <p>A short review under headings : history, resources, products, marketing & prices, future demand, prospects for development. Gives table of summary production statistics.</p> <p>WAD:sjh M</p>	<p>Laubenfels, M.W. de (1957) 582532 <u>System.Zool., 6:156-9</u> <u>A problem in taxonomy: the sponge genus Reniera</u></p> <p>Examines synonymy of <u>Rayneria</u>, <u>Reniera</u>, <u>Halichondria</u> & <u>Haliclona</u>.</p> <p>HR:sjh M</p>

Levi, C. (1957) 582533
System.Zool., 6:174-83
Ontogeny and systematics in sponges.

A review of this group, with proposed classification.

HR:sjh

M

Kufforath, H. (1957) 582536
Mém.Acad.R.Sci.colon., 5(3)
Quelques algues des rapides de la Ruzizi à Bugarama (Ruanda-Urundi)
(Some algae from the rapids of Ruzizi-Bugarama (Ruanda-Urundi))

F

Dyck, S. (1957) 582534
Mitt.Inst.Wasserwissensch., 1:87 p.
Die Erfassung der Ausgleichswirkung von Talsperren auf die natürlichen Abflussschwankungen der Flüsse
(Registration of the compensating activity of artificial lakes (dams) on the natural fluctuation of the runoff of rivers)

Contents as per title.

F

Russell, C.R. (1957) 582537
Rec.Cant.Mus., 7(1) New Zealand
Some additions to the rotatoria of the Chatham Islands

F

Taylor, W.R. (1957) 582535
University of Michigan Press, Ann Arbor, 509 p.
Marine algae of the northeastern coast of North America (2nd ed.)

The area with which the book deals extends from the coast of Virginia to the Arctic Circle.

FAO:wad

M

Ružička, (1957) 582538
Proslia, 29:132
Die Desmidiaceen der oberen Moldau (Böhmerwald) (Desmidiaceae from the upper Moldavia (Böhmerwald - Český Les))

F

FAO/58/9/6635

Althaus, B. (1957) 582539
Wiss.Z.Univ.Halle Math-Nat., 6:117-58
Faunistisch-ökologische Studien an
Rotatorien salzhaltiger Gewässer Mittel-
deutschlands (Faunistic-ecological
studies on rotatoria living in salt
containing waters of Central Germany)

Contents as per title.

F

Müller, K. (1957) 582542
Svensk FiskTidskr., 66:129-36
Experiment med fiskevatten - ett
genmäle (Experiment with fishing
water - a reply)

Discussion on the productivity of
rivers & brooks in northern Sweden &
the influence of cleaning of brook bed
for logg floating purposes on the
bottom fauna & fishes in the brook.

FAO:tl

M

The Allan Hancock 582540
Foundation (1957)
Univ. of S. California, Los Angeles, 39 p
Report for the period July 1, 1954 to
June 30, 1957

Lists staff & notes their activities;
reports activities in fields of marine
biology & oceanography & also proto-
zoology & parasitology; operations of
research vessel VELERO IV; library,
publications.

FAO:sjh

M

Curry-Lindahl, K. (1957) 582543
Svensk FiskTidskr., 66:136-8
Uppgifter om rödingen (Salmo alpinus)
i Sarekområdets älvar (Data on char
(Salmo alpinus) in the rivers of Sarek
area)

Notes on the distribution of char in
NW Sweden.

FAO:tl

F

Balasundaram, S. & al. (1957) 582541
J.sci.industr.Res., 16C:8-11
Application of conversion factors for
the determination of vitamin A in fish
liver oils

Data from the analysis of material from
unnamed sharks.

FAO:sjh

M

Tambs-Lyche, H. (1957) 582544
Norw.Fish.News, 4(2):5-8
The development of marine fisheries
research in Norway

A history of research & its
organization, with account of
contributions made by eminent Norwegian
fisheries biologists.

FAO:sjh

M

Hulburt, E.M. (1957) 582545
Bull.Mar.Sci.Gulf Caribb., 7(1):21-34
Sea-level fluctuations at Charleston,
South Carolina

Daily-weekly, semi-annual, & year-to-
year variations were observed. The
remainder of the variations were
derived primarily from the deep water
beyond the shelf.

FAO:sjh

M

Costello, D.P. & al. (1958) 582548
Marine Biol.Laboratory, Woods Hole, 247 p.
Methods for obtaining and handling
marine eggs and embryos

Under the general headings "Living
material", "Breeding season", "Care of
adults", "Procuring gametes",
"Preparation of cultures", "Methods of
observation", "The unfertilized ovum",
"Fertilization and cleavage", "Time
table of development", & "Later stages
of development and metamorphosis", this
book describes the best methods for
using embryological material from 95
marine animals.

FAO:sjh

M

Hulburt, E.M. (1957) 582546
Biol.Bull., Wood's Hole, 112:196-219
The taxonomy of unarmored Dinophyceae
of shallow embayments on Cape Cod,
Massachusetts

Contents as per title.

FAO:efa

M

Hisaoka, K.K. (1957) 582549
J.Hered., 48:251-2
Lordoscoliosis in the tropical fish
Panohax lineatus

Ill. note on morphological aspects of
vertebral column of a deformed male
specimen from Illinois.

FAO:sjh

F

Hulburt, E.M. (1957) 582547
Limnol.Oceanogr., 2(1):1-11
The distribution of Neomysis americana
in the estuary of the Delaware river

An account of the distribution & of the
diurnal variation of this; length
measurements are given. The effects of
circulation & of light & salinity on
distribution are discussed.

HR:glk

MF

Leggiero, M. (1957) 582550
Engng News Rec., August 15, 4 p.
The pollution control act - a year later

A review of the results attained during
the first year (July 1, 1956 - June 30,
1957) of federal (U.S.) construction
grants for sewage works under U.S.
Public Law 660.

FiB:swad

MF

FAO/53/9/6635

Kazanchev, E.N. (1957) 582551
Fish.Ind., Moscow, 33(6):7-9
O gruppovom metode razvedki rybnykh
kosiakov v Severnom Kaspii (Team-
work method for locating fish shoals in
the North Caspian)

Advantage of teamwork by 2 ships for
locating points where fishes concentrate.
Description of an experiment carried
out on the northern fishing grounds of
the Caspian sea.

FiB:go

M

Komarova, I.V. & V.A. 582554
Musselins (1957)
Fish.Ind., Moscow, 33(6):47-51
Opyt uskorenogo vyrashchivaniia
dvukhlotkov karpa (Experiments with
intensified raising of 2-year-old carp)

Attempt to gain pond space by reducing
estivation periods & producing an
additional crop of marketable fish
during the former half of the season.
Description of experiments carried out
with carp yearlings raised to desired
size by intensified feeding; weight
increase, per diem & after 2 months.

FiB:go

F

Botodatov, V.A. (1957) 582552
Fish.Ind., Moscow, 33(6):37-44
Novyi raion rybolovstva - banka
"Sverdlovsk" (New fishing grounds -
the "Sverdlovsk" bank)

Description of new fishing grounds on
the S.W. slopes of the Flemish Cape
shallow, explored by the trawler
Sverdlovsk & her sister-ships. Data on
bottom relief, hydraulic regime, size
& composition of catches (mainly red-
fish) by demersal trawl.

FiB:go

M

Movchan, V.A. (1957) 582555
Fish.Ind., Moscow, 33(6):51-2
Opyt po polikulture pri intensifikatsii
rosta ryb (Experimental polyculture
and intensified growth of fish)

Experiments carried out with fish of
different spp. & ages, raised together
in ponds on intensified artificial food
rations. Promising results.

FiB:go

F

Kiselev, I.V. (1957) 582553
Fish.Ind., Moscow, 33(6):45-7
K metodike iskusstvennogo oplodotvoreniia
ikry karpa i karasei (Methods for
performing artificial fertilization of
carp & crucian carp spawn)

Description of methods used, roe &
milt ratio, incubation & environment.

FiB:go

F

FAO/58/9/6635

Berval'd, E.A. & O.D. 582556
Romanycheva (1957)
Fish.Ind., Moscow, 33(6):52-4
O lotnom zaprete na Aralskom more
(Prohibition of summertime fishing in
the Aral sea)

Data on the effect of prohibition.
Necessity to extend it to the spawning
period. During the standstill, manpower
should be used for improving spawning
grounds. Restrictions necessary with
regard to fishing gear & methods.

FiB:go

MF

Danilchenko, O.P. (1957) 582557
Fish. Ind., Moscow, 33(6):78-80
Mochenie oligozhet (Enchytracus) radio-
aktivnym strontsiem (Marking of
oligochaeta (Enchytracus) by radio-
active strontium)

3 methods used for marking fish. The
third is the best, consisting of feeding
oligochaeta with radioactive matter,
the worms being then fed to fish.
Description of experiments & best
conditions for rendering oligochaeta
radioactive.

FiB:go

M

Sokolich, A.D. (1958) 582560
Comm. Fish. Rev., 20(6):22
California - Anchovy and mackerel
fisheries experience poorest season in
many years

Contents as per title.

FAO:sjh

M

Cating, J.P. (1958) 582558
Comm. Fish. Rev., 20(6):1-5
Damariscotta (Maine) alewife fishery

Ill. survey of Pomolobus pseudoharengus
fishery of Atlantic coast of N. America,
mainly dealing with fishways, capture
methods & sampling.

FAO:sjh

MF

Anonymous (1958) 582561
Comm. Fish. Rev., 20(6):23
California - Dungeness crab - year-
classes surveyed and otter trawl and
beam trawl tested for sampling

Contents as per title.

FAO:sjh

M

Van Engel, W.A. (1958) 582559
Comm. Fish. Rev., 20(6):6-17
The blue crab and its fishery in
Chesapeake Bay

Fishery for & biology of Callinectes
sapidus. Catches, reproduction, growth
& development, migrations, food.

FAO:sjh

M

Anonymous (1958) 582562
Comm. Fish. Rev., 20(6):24
California - Loss of spawning beds
believed major factor in decline of king
salmon

Contents as per title.

FAO:sjh

MF

FAO/58/9/6635

Anonymous (1958) 582563
Comm. Fish. Rev., 20(6):24-5
California - Yellowfin and skipjack
tuna studies off west coast of South
America (M/V SOUTHERN PACIFIC cruise
5705 - Tuna)

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582562
Comm. Fish. Rev., 20(6):29-30
Great lakes fishery investigations -
Sea lamprey larvae destroyed by chemical

Contents as per title.

FAO:sjh

MF

Anonymous (1958) 582564
Comm. Fish. Rev., 20(6):25-6
California - Yellowfin and skipjack
tuna studies off west coast of South
America (M/V RUTHIE B cruise 5706 - Tuna)

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582567
Comm. Fish. Rev., 20(6):30
Gulf exploratory fishery program -
Exploratory fishing for red snapper with
roller-rigged otter trawl

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582565
Comm. Fish. Rev., 20(6):29
Fish predators - Bounty payments
opposed

Control of certain predators such as
hair seals and sea lions in the
fisheries of the Pacific coast & Alaska.

FAO:sjh

M

Anonymous (1958) 582568
Comm. Fish. Rev., 20(6):31
Gulf exploratory fishery program -
Midwater trawling explorations between
Mississippi delta and Cape San Blas

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582569
Comm.Fish.Rev., 20(6):31-2
King crab - Bureau fishery biologists
study life history

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582572
Comm.Fish.Rev., 20(6):36
North Atlantic fisheries investigations -
Haddock ecology studies continued

Contents as per title.

FAO:sjh

II

Anonymous (1958) 582570
Comm.Fish.Rev., 20(6):32-3
King crab - Studies to be continued by
Alaska fisheries biologist in Kodiak-
Afognak area

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582573
Comm.Fish.Rev., 20(6):36-7
North Atlantic fisheries investigations -
Haddock tagging and hydrographic cruise
completed

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582571
Comm.Fish.Rev., 20(6):35-6
North Atlantic fisheries exploration
and gear research - Continental shelf
off the Carolinas surveyed for
commercial fish

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582574
Comm.Fish.Rev., 20(6):37-8
North Pacific fisheries investigations -
Commercial quantities of pink shrimp
found off northern Oregon

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582575
Comm.Fish.Rev., 20(6):38
North Pacific fisheries investigations -
Modified electrical depth-temperature
telometer tested and true cod tagged
Contents as per title.

FAO:sjh M

Anonymous (1958) 582578
Comm.Fish.Rev., 20(6):42-3
Salmon - Big field test for electrical
guiding of young fish
Contents as per title.

FAO:sjh MF

Anonymous (1958) 582576
Comm.Fish.Rev., 20(6):39-40
Oregon - Commission opposes move to
declare steelhead trout a game fish
Contents as per title.

FAO:sjh F

Anonymous (1958) 582579
Comm.Fish.Rev., 20(6):43
Salmon - Niacin deficiency involved in
salmon sunburn
Contents as per title.

FAO:sjh MF

Anonymous (1958) 582577
Comm.Fish.Rev., 20(6):40-2
Pacific oceanic fishery investigations -
Enumeration and sampling of tuna schools
in the Marquesas Islands area
Contents as per title.

FAO:sjh M
FAO/58/9/6635

Anonymous (1958) 582580
Comm.Fish.Rev., 20(6):45-6
Shrimp - Good catches taken off Tampa
Bay, Florida
Contents as per title.

FAO:sjh M

Anonymous (1958) 582581
Comm.Fish.Rev., 20(6):46-7
United States commercial fisheries
decline in 1957

Contents as per title.

FAO:sjh

MF

Anonymous (1958) 582584
Comm.Fish.Rev., 20(6):57-8
Aden - Commercial fisheries in Eastern
Aden Protectorate studied

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582582
Comm.Fish.Rev., 20(6):51
Virginia - Fish kills more common in
spring Virginia biologists state

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582585
Comm.Fish.Rev., 20(6):61
Canada - New type headline rope
developed for midwater trawls

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582583
Comm.Fish.Rev., 20(6):54-5
Great Lakes fishery commission -
Meeting held in Washington, D.C.

Contents as per title.

FAO:sjh

MF

FAO/58/9/6635

Anonymous (1958) 582586
Comm.Fish.Rev., 20(6):63-4
Canada - Research on the use of metal
lobster traps

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582587
Comm.Fish.Rev., 20(6):64-5
Canada - Studies on holding lobsters in
artificial sea water

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582590
Comm.Fish.Rev., 20(6):67-8
Iceland - Electric trawl developed for
herring fishery

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582588
Comm.Fish.Rev., 20(6):66
Cuba - Closed season for mojarras and
sponges

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582591
Comm.Fish.Rev., 20(6):69-70
Norway - Failure of winter herring
fishery due to cold surface water

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582589
Comm.Fish.Rev., 20(6):67
Ecuador - New fishing laws proposed

Contents as per title.

FAO:sjh

M

FAO/58/9/6635

Anonymous (1958) 582592
Comm.Fish.Rev., 20(6):71
Panama - Expansion of shrimp industry
slows down

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582593
Comm.Fish.Rev., 20(6):72
Poland - Ocean fish catch
Contents as per title.

FAO:sjh II

Anonymous (1958) 582596
Comm.Fish.Rev., 20(6):75-6
Sudan - New diving equipment may
increase harvest of sea shells in Red
Sea

Contents as per title.

FAO:sjh M

Anonymous (1958) 582594
Comm.Fish.Rev., 20(6):73-4
South-West Africa - Fishing industry
review
Contents as per title.

FAO:sjh M

Anonymous (1958) 582597
Comm.Fish.Rev., 20(6):76
Surinam - Shrimp fishery trends
Contents as per title.

FAO:sjh M

Anonymous (1958) 582595
Comm.Fish.Rev., 20(6):74-5
South-West Africa - Spiny lobster
fishery threatened by offshore diamond
mining
Contents as per title.

FAO:sjh M

FAO/58/9/6635

Anonymous (1958) 582598
Comm.Fish.Rev., 20(6):76-7
U.S.S.R. - Fishing activity in North-
west Atlantic increases
Contents as per title.

FAO:sjh M

Anonymous (1958) 582599
Comm.Fish.Rev., 20(6):77-9
U.S.S.R. - Vessels use fish pump to
catch fish attracted by underwater
light

Contents as per title.

FAO:sjh II

Anonymous (1958) 582602
Comm.Fish.Rev., 20(5):20-1
Alaska - Fishery regulations for 1956
approved

Pink salmon runs in southeastern Alaska

FAO:sjh III

Enoquist, P. (1958) 582600
Göteborg, 282 p.
Årsbok 1957 Göteborgs och Bohus Läns
Havsfiskoförening (Yearbook 1957
of the Göteborg and Bohus County Marine
Fisheries Association)

Annual report of the association,
nautical tables, Swedish fisheries
administration, review of fishery
regulations, various conversion tables,
fisheries statistics & various other
short notes for fishermen.

FAO:tl M

Anonymous (1958) 582603
Comm.Fish.Rev., 20(5):23-6
California - Survey of pelagic fish
populations between central and
Baja California by M/V N.B. SCOFFIELD

Contents as per title.

FAO:sjh M

Edwards, R.L. & F.E. Lux (1958) 582601
Comm.Fish.Rev., 20(5):1-6
New England's industrial fishery

A review; history, landings, gears, spp.
involved, their abundance & research
on their biology.

FAO:sjh M

Anonymous (1958) 582604
Comm.Fish.Rev., 20(5):26-8
California - Preseason exploratory
albacore survey

Contents as per title.

FAO:sjh II

FAO/58/9/6635

Anonymous (1958) 582605
Comm. Fish. Rev., 20(5):30
Great lakes fishery investigations -
Operational plans for M/V CISCO for
1958

Contents as per title.

FAO:sjh

F

Anonymous (1958) 582608
Comm. Fish. Rev., 20(5):33-4
Market development - Initial steps
taken in plan for New England fisheries

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582606
Comm. Fish. Rev., 20(5):31
Gulf exploratory fishery program -
Experimental midwater trawling
conducted off Mississippi

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582609
Comm. Fish. Rev., 20(5):34
North Atlantic fisheries investigations -
Observations on haddock made off
Highland Light

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582607
Comm. Fish. Rev., 20(5):31-2
Lobsters - Metal container used for
shipping live lobsters

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582610
Comm. Fish. Rev., 20(5):35-6
North Atlantic herring research -
Winter habitat and life history of
Maine herring populations studied

Contents as per title.

FAO:sjh

M

FAO/58/9/6635

Anonymous (1958) 582611
Comm.Fish.Rev., 20(5):36-7
North Pacific exploratory fishery
program - Survey of shrimp stocks off
southern Washington and northern Oregon
planned

Contents as per title.

FAO:sjh M

Anonymous (1958) 582614
Comm.Fish.Rev., 20(5):38-9
Salt marshes - Conference on importance
to fisheries

A conference was held in Georgia the last
week of March 1958 where scientists
considered the importance of salt marshes
in relation to abundance of oysters &
other valuable fisheries.

FAO:sjh M

Anonymous (1958) 582612
Comm.Fish.Rev., 20(5):37
Oysters - Increased starfish population
threatens Long Island industry

Contents as per title.

FAO:sjh M

Anonymous (1958) 582615
Comm.Fish.Rev., 20(5):39
Sardines - Spawning off Southern
California fairly widespread in February
1958

Contents as per title.

FAO:sjh M

Anonymous (1958) 582613
Comm.Fish.Rev., 20(5):38
Pacific oceanic fishery investigations -
Tagged skipjack tuna returns high

Contents as per title.

FAO:sjh M

FAO/58/9/6635

Anonymous (1958) 582616
Comm.Fish.Rev., 20(5):39-40
Shrimp - Pacific northwest shrimp
industry aided

Contents as per title.

FAO:sjh M

Anonymous (1958) 582617
Comm. Fish. Rev., 20(5):40-1
South Carolina - Fisheries biological
research progress, January-March 1958

This winter, the coldest on record since 1918, the 5 salt-water experimental ponds at Bears Bluff were frozen over, & the water temperature under the ice dropped to 32.5° F. Most of the experimental fishes in the ponds had already been killed by a previous cold spell; all the experimental ponds are now being prepared for stocking with shrimp & fish for a continued study of the productivity of these salt-water ponds.

FAO:sjh

M

Anonymous (1958) 582620
Comm. Fish. Rev., 20(5):47-8
Virginia - Survey of salt-water sport
fishing nearing completion

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582618
Comm. Fish. Rev., 20(5):43-4
Unique devices being developed for
fisheries research and management

Several of the devices mentioned have been developed at the Fisheries Instrumentation Laboratory, a unit of the Pacific Salmon Investigations at Seattle Wash. This unit has a staff of experts qualified to develop new devices that will improve the efficiency & effectiveness of fishery research & management.

FAO:sjh

MF

Anonymous (1958) 582621
Comm. Fish. Rev., 20(5):48-9
Whaling - United States catch in 1957

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582619
Comm. Fish. Rev., 20(5):47
Virginia - Laboratory to study parasites
on fish from Antarctica

Contents as per title.

FAO:sjh

M

Anonymous (1958) 582622
Comm. Fish. Rev., 20(5):51-4
International - United Nations -
Conference on the law of the sea

Contents as per title.

FAO:sjh

M

FAO/58/9/6635

Anonymous (1958) 582623
Comm. Fish. Rev., 20(5):57
Japanese-Russian fisheries negotiations
progress report
Contents as per title.

FAO:sjh MF

Anonymous (1958) 582626
Comm. Fish. Rev., 20(5):65
Norway - Winter herring fishery failure
Contents as per title.

FAO:sjh M

Anonymous (1958) 582624
Comm. Fish. Rev., 20(5):61
Cuba - Closed season for spiny lobster
begins March 30
Contents as per title.

FAO:sjh M

Anonymous (1958) 582627
Comm. Fish. Rev., 20(5):67-8
Surinam - Report on exploratory survey
of fish and shrimp grounds
Contents as per title.

FAO:sjh M

Anonymous (1958) 582625
Comm. Fish. Rev., 20(5):61-2
France - Tuna industry expands
Contents as per title.

FAO:sjh M

FAO/58/9/6635

Anonymous (1958) 582628
Comm. Fish. Rev., 20(5):68
Surinam - Shrimp survey results
published
Contents as per title.

FAO:sjh M

Anonymous (1958) 582629
Comm.Fish.Rev., 20(5):69
Sweden - Research on artificial
propagation of salmon

Contents as per title.

FAO:sjh

MF

Solden, C.P. & I.W. Jones (1958) 582632
Educ.Bull.Fish Comm.Ore., (1):21 p.
Foodfish for the future

Incl. information on what kinds of food-
fish are caught in Oregon, who manages
foodfish resources, how are foodfish
resources managed. Information on
hatcheries which are an important part
of the salmon management program.

:sjh

M

Anonymous (1958) 582630
Comm.Fish.Rev., 20(5):69
Sweden - Fishing company to experiment
with electrical shock fishing

Contents as per title.

FAO:sjh

MF

Hong Kong, Registrar of 582633
Cooperative Societies & (1957)
Director of Marketing
Government Press, Hong Kong, 41 p.
Annual departmental report for the
Financial Year 1956-57

The following information pertaining to
fisheries: fish pond society,
legislation, spp. of fish marketed,
exports of local marine fish,
mechanized fleet.

:sjh

MF

Thompson, S.H. (1957) 582631
Statist.Dig.U.S.Fish Wildl.Serv., (40):
88 p.
Alaska fishery and fur-seal industries

Kyle, G. (1957) 582634
Ala.Conserv., 29(1):8-9
Young fishermen learn from 4-H Oyster
Project

Describes a 4-H Club project which shows
its members how to plant sea farms &
how to increase oyster production.

M

:sjh

M

FAO/58/9/6635

Kuroshi, M.R. & M. Ahmad (1958) 582635
Econ.Dig., 3(6):1-4
Fish industry in Pakistan

MF

Hoffmann, N. (1957) 582638
Rio de Janeiro, 10 p.
O nacionalismo e a pesca (On
nationalism and fishery)

An essay presenting the author's views
on Brazil's territorial water limits &
reasons why he thinks that foreign
vessels should not be allowed to fish in
Brazilian waters.

:sjh

M

Leo, H.B. (1958) 582636
Dep. van Landbouw, Paramaribo, Surinam,
20 p.
Zeevisscrij-Onderzoek (Coquette
survey report)

The results of an exploratory fishing
survey of the waters off Surinam out to
a depth of 30 fathoms to locate fishable
grounds containing commercial quantities
of large shrimp & to gain information
of any other trawl-caught sp. existing
in the area.

:sjh

M

Oda, S. (1957) 582639
Z. ausland. Offentl. Recht & Volkerr., 18(2)
261-86

New trends in the regime of the seas -
A consideration of the problems of
conservation and distribution of marine
resources. II.

Discusses the existing international
regulations relating to the high seas
fisheries. The U.S. policy, the
obligation imposed on Japan, & the
U.K.'s view are discussed under the
chapter on conservation policy of major
maritime countries. The compulsory
conservation measures proposed by the

:sjh

M

Garcis Amador, F.V. (1957) 582637
Havana, Cuba, 184 p.
The exploitation and conservation of the
resources of the sea - A study of
contemporary international law

A historical, analytical & critical
report of the ideas & events that are
effecting a transformation in the
international law of the sea.

:sjh

M

International Law Commission are
analyzed; & another movement towards the
dividing-up of the seas is discussed.

U.K. Central Office of Information (1958) 582641
London, 32 p.
The territorial sea

Reference paper prepared in anticipation of the International Conference on the law of the sea in Geneva, 1958. Deals with the breadth of the territorial sea.

:sjh

M

U.S. Treaties & Other International Acts (1957) 582644
Washington, D.C., 3 p.

Whaling - Amendments to the schedule to the International Whaling Convention signed at Washington on December 2, 1946



M

Özerdem, M.N. (1957) 582642
Teknoloji Arastirmalari B., (1):43 p.
Balikçi teknoleringo makina seçimi
(Selection of engines for fishing boats)

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SJH:sjh

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