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)

FAO/58/4/2813

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.)

FAO/58/4/2813

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.

Williams, C.H. (1958) 580001
Discovery, 19:60-4
"DISCOVERY" - Ships of that name

Short illustrated account of expeditions and scientific work of these vessels from 1602 to the present day.

FAO:sjh M

Wright, P.G. (1958) 580004
Nature, Lond., 181:64-5
An electrical receptor in fishes

Observations on Mormyrus kannume 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.

GLK:wad M

Anonymous (1958) 580002
New Sci., 3(59):9
Finding fish by asdic

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.

FAO:sjh MF

Nagabushanan, A.K. (1958) 580005
Nature, Lond., 181:57-8
Sacculina gonoplaxae Guérin-Ganivot, 1911, a Rhizocephalan parasite new to British waters

Describes new records that extend its known distribution northwards to the Irish Sea and the Firth of Clyde.

GLK:wad M

Rosmont, R., J. Bouillon, P. Castiaux & G. Vandermoerssche (1958) 580003
Nature, Lond., 181:58-9
Ultra-structure of the Choanocyte collar-cells in freshwater sponges

A description based on observation of ultra-thin sections in a species, probably Ephydatia fluviatilis, using the electron microscope.

GLK:wad F

Cartwright, D. & A.H. Stride (1958) 580006
Nature, Lond., 181:41
Large sand waves near the edge of the continental shelf

Describes the waves on La Chapelle Bank, 47°41'N, 7°13'W, as determined by echo-sounding.

GLK:wad M

Anonymous (1958) 580007
Dansk FiskTid., 76:49-51
Fiskeriministeren vil indstille rødspætteomplantningerne og lade ivaerksaette ørredomplantning

(The Ministry of Fisheries will discontinue transplantation of plaice and will start trout transplantation)

FAO:tl M

Anonymous (1958) 580008
Polar Rec., 9(58):36-9
Research on anti-icing precautions for ships

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.

FAO:sjh M

Anonymous (1958) 580009
Polar Rec., 9(58):42-3
Soviet Biological Station on the Barents Sea

Extract from Kamshilov, M.M. (1957).

FAO:sjh M

Anonymous (1958) 580010
Polar Rec., 9(58):57-8
Harald Ulrik Sverdrup

An obituary and short bibliography.

FAO:sjh M

Harker, J.E. (1958) 580011
Biol.Rev., 33(1):1-52
Diurnal rhythms in the animal kingdom

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.

FAO:sjh MF

Anonymous (1958) 580012
New Sci., 3(64):11
Tidal model for a university

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.

FAO:sjh M

Fichot, E. (1958) 580013
Bull.Com.centr.Océanogr., 10(1):7-13
Contribution à l'étude des ondes liquides

(Contribution to the study of liquid waves)
Survey of theoretical developments from the work of Cauchy and Possion leading to a summary and review of a paper by Risser in J.Ec.polyt., Paris, 2nd Ser., 24 (1924).

FAO:glk MF

Gelci, R. & H. Cazaie (1958) 580016
Bull.Com.centr.Océanogr., 10:52-63
L'agitation microsismique au Maroc - Corrélation avec la houle et le vent

(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.

FAO:glk M

Vantroys, L. (1958) 580014
Bull.Com.centr.Océanogr., 10(1):14-8
Note sur l'utilisation de la surface libre des mers dans les opérations de nivellement.
(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.

FAO:glk M

Vantroys, L. (1958) 580017
Bull.Com.centr.Océanogr., 10:64-73
Notre ignorance des marées océaniques est-elle sans remède?

(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.

FAO:glk M

Tchernia, P. (1958) 580015
Bull.Com.centr.Océanogr., 10(1):19-22
L'eau intermédiaire dans le bassin algéro-provençal

(Intermediate water in the Algero-Provençal basin)
Characteristics illustrated by T-S diagrams prepared for 10 stations.

FAO:glk M

Gillio, P. (1958) 580018
Bull.Com.centr.Océanogr., 10:74-92
La houle et les vagues en haute mer et sur les côtes

(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.

FAO:glk M

ten Doesschate, J. (1958) 580019
Tabul.biol., Hague, 22(3), 32 p.
Absorption of radiant energy by the ocular media

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.

FAO:glk MF

Lucas, M. (1958) 580022
France Pêche, 3(14):23-5
L'ostréiculture dans le Bas-Médoc

(Oyster culture in Bas-Médoc)
Brief account of operations.

FAO:glk M

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

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.

SJH:sjh MF

Galliano, A. (1958) 580023
Corriere d.Pesca, 14(2):1
Cossa la vita nei mari inquinati dal petrolio

(Life ceases in oil polluted seas)
Article on effects of oil pollution in the Persian Gulf and the North Sea on fishes and birds.

FAO:glk M

Florida State Museum (1958) 580021
University of Florida, Gainesville, 20 p.
Report of the Director for 1956-57

Includes notes on collections of molluscs, aquatic mammals and fishes.

FAO(FiB):sjh MF

Nakano, E., G. Giudice & A. Monroy (1958) 580024
Experientia, 14(1):11-2
On the incorporation of S^{35}-methionine in artificially activated sea urchin eggs

FAO:glk M

Anonymous (1958) 580025
New Sci., 3(63):8
Oil under the North Sea?

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.

FAO:sjh M

Anonymous (1958) 580026
New Sci., 3(63):22
Water to see through

Short account of process of ultra-filtration of water in connection with long-range under-water photography in tanks.

FAO:sjh MF

Anonymous (1958) 580027
New Sci., 3(63):24-5
Explorer of the the silent world

Biography of J.-Y. Cousteau, including account of his contribution to development of submarine equipment.

FAO:sjh M

Cochrane, A.L. (1958) 580028
New Sci., 3(63):37
Transom stern trawlers

Letter replying to Corlett, E.C.B., New Sci., 24.10.57.

FAO:sjh M

Corlett, E.C.B. (1958) 580029
New Sci., 3(63):37
Transom stern trawlers

Reply to letter of A.L. Cochrane (1958), Ref. 580028.

FAO:sjh M

Hammond, A.E. (1958) 580030
Fish.Tr.Gaz., 3892:15-18, 22
Danish quick-frozen trout

A popular article on methods used in the commercial trout industry in Denmark.

FAO:wad F

National Canners 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

Ronald, K. (1958) 580032
Canad.J.Zool., 36(1):1-6
The metazoan parasites of the Heterosomata 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

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 specia special respect to the epithelia of the tubules. The appearance of the myeloid tissue is noted.

FAO:hr 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

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 temperatures. 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

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

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

Biographical sketch and appraisal.

GLK:glk MF

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

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

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

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

GLK:glk M

Artüz, I. (1958) 580041
Balik Balikçilik, 6(1):2-12
Bafa Gölünde Balikçilik Arastirmalari

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

SJH:sjh MF

Ermin, R. (1958) 580042
Balik Balikçilik, 6(1):12-6
Hidrobioloji Eastitüsü 1957 Senesi Faaliyeti

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

SJH:sjh M

Nalbantoglu, U. (1958) 580043
Balik Balikçilik, 6(1):16-20
Iskeli Yengeç Calappa granulata Fabr. (Cancer granulatus L.)

(About the shame-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 baliklarinin polâjik yumurta ve lârvalarinin tâyin anahtari: 6B - Sardalya Baligi (Sardinella aurita) - Sardalya Tülka Baligi (Clupeonella delicatula delicatula)

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

SJH:sjh M

Tozel, R. (1958) 580044
Balik Balikçilik, 6(1):26-30
Bogazda Göremedigimiz Yunus Baliklarina 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 fishermen's observations.

SJH:sjh M

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

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

SJH:sjh M

Tozel, R. (1958) 580048
Balik Balikçilik, 6(2):23-7
Cesitli Baliklardan Mahrum Olusumuzun Sebeplori Hakkinda Bir Dertlesme

(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

Gontcharoff, M. (1958) 580049
C.R.Acad.Sci.Paris, 246:1296-7
L'autotomie spontanée de la trompe chez Lineomertes echinoderma

(Spontaneous autotomy of the proboscis of Lineomertes echinoderma)
Reports observations on this Mediterranean nemertine.

FAO:sjh M

Villcrot, S. (1958) 580052
C.R.Acad.Sci.Paris, 246:1452-4
Recherches sur la présence des enzymes des uréïdes glyoxyliques chez les Algues marines

(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.

FAO:sjh MF

Fischer-Piette, E. (1958) 580050
C.R.Acad.Sci.Paris, 246:1301-3
Sur l'écologie intercotidale Ouest-ibérique

(On the intercotidal ecology of the West-Iberian coast)
Zonation and latitudinal distribution limits of algae and molluscs south to Morocco.

FAO:sjh M

Sweet, A.J. (1958) 580053
I Symposium Nacional de Recursos Naturales de Cuba, Feb.3-14, 1958, Ref. SRNC/PL
Importance of basic data for resource development

A general review, with reference to aquatic resources, charting, etc.

HR:sjh MF

Heintz, E. (1958) 580051
C.R.Acad.Sci.Paris, 246:1309-12
Action indirecte chimiotropique des rayons γ sur la Bouvière (Rhodeus amarus B.)

(Indirect chemotropic action of gamma-rays on the bitterling)
Illustrated report of tank experiments showing behavioural reactions to this stimulus through water becoming activated.

FAO:sjh F

Ackerman, E.A. (1958) 580054
I Symposium Nacional de Recursos Naturales de Cuba, Feb.3-14, 1958, Ref. SRNC/PL
National objectives and national policy in natural resource use

A general review.

HR:sjh MF

Erman, F. (1958) 580055
Balik Balikçilik, 6(3):9-12
Kofallarin Havuzlarda Sun'i Olarak Yetiştirilmo ve Geliştirilmesi Hakkinda

(About the artificial feeding of grey mullets in Israel)
Feeding of Mugil cephalus in ponds.

SJH:sjh M

Türgan, G. (1958) 580058
Balik Balikçilik, 6(3):18-20
Torik - Palamut Baliklarinin Yaşlari Hakkinda 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
Balik Balikçilik, 6(3):12-4
Yine Yunuslar Hakkinda

(About the dolphins which we don't see any more in the Bosphorus)
A masterfisherman's account of, and views on, disappearance of Delphus delphinus from Marmara Sea and Bosphorus.

SJH:sjh M

Anonymous (1958) 580059
Balik Balikçilik, 6(3):21-4
Vatoz Baliklarinin Bilmediğimiz Hususiyetlerine Dair

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

SJH:sjh M

Ünor, S. (1958) 580057
Balik Balikçilik, 6(3):15-7
Hasretini Çektiğimiz Uskumru

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

SJH:sjh M

Tezel, R. (1958) 580060
Balik Balikçilik, 6(3):25-9
Baliklarda Göze Çarpan Hicrî Kargaşaliklar Hakkinda

(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

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

FAO M

Adair, W.J. & 580062
H.S. Vishniac (1958)
Science, 127:147-8
Marine fungus requiring vitamin B_{12}

Tests of the value of Thraustochytrium globosum as assay organism for B_{12} 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

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) bilineatus (Clark), 1936

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

FAO:hr M

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

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

FAO:tl F

Nielsen, E.S. & 580065
P.K. Jensen (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 CO_2 conc. & buffering. Discussion of results in relation to previous reports of other authors.

FAO:sjh F

Mundt, E. (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:tl M

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
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CURRENT BIBLIOGRAPHY FOR FISHERIES SCIENCE

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Biology Branch, Fisheries Division

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)

FAO/58/5/3420

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	Skip	Sk
Arabic	Arabiya	Ar
Bulgarian	Bulgarski	Bu
Chinese	Chunghwa	Ch
Croatian	Hrvat	Hr
Czech (Bohemian)	Cestina	Cs
Danish	Dansk	Da
Dutch	Nederlands	Ne
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. Priestley & W.C. Swinbank (1958) 580067
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

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

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

Notes on facilities and activities.

FAO:glk M

Motwani, M.P. & S.J. Karamchandani (1958) 580070
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

Ganapati, P.N. & P.V. Bhavanarayana (1958) 580071
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

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

Snodgrass, F.E. (1958) 580073
Trans.Amer.geophys.Un., 39(1):109-13
Shore-based recorder of low-frequency ocean waves

Description of the instrument, its response characteristics and calibration.

GLK:tl M

Snodgrass, F., W. Munk & M.J. Tucker (1958) 580074
Trans.Amer.geophys.Un., 39(1):114-20
Offshore recording of low-frequency ocean waves

Description of the instrument, its sensitivity and operation.

GLK:tl M

Anonymous (1958) 580075
IGY Bull., (7) In Trans.Amer.geophys.Un., 39(1):159-62
Oceanographic expedition Downwind

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.

GLK.tl M

Anonymous (1958) 580076
IGY Bull., (8) In Trans.Amer.geophys.Un., 39(1):175-8
First sea surface gravimeter

Description of the instrument and its operation.

GLK:tl M

Maroc. Service central de statistiques (1958) 580077
Rabat, 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.

FAO:sjh M

Lichardová, E. (1958) 580078
Biológia, 13:129-33
Príspevok k poznaniu jednodňovick (Ephemeroptera) ramien 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.

FAO:tl F

Prenant, M. (1958) 580079
C.R.Acad.Sci., Paris, 10:1582-5
Ecologie des sables intercotidaux et traduction approximative des données granulométriques en nombres de grains

(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.

FAO:sjh M

Hanuška, L. (1958) 580080
Biológia, 13(1):53-6
Ninige interessante Protozoen der Donau

(Some interesting Protozoa of the Danube) Ru Cs
Description of 3 Actinomyxidia and 2 Suctoria found in the Danube between Bratislava and Stúrovo.

FAO:sjh F

Hela, I. (1958) 580081
Helsinki, 23 p. (mimeo)
Kertomus merentutkimuslaitoksen toiminnasta vuonna 1957

(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.

TL:tl M

Scott, D.M. & H.D.Fisher (1958) 580082
J.Fish.Res.Bd Canada, 15(1):1-4
Incidence of a parasitic ascarid, Porrocaecum decipiens, in the common porpoise, Phocoena phocoena, from the lower Bay of Fundy.

Infestation rates determined from 150 1952-56 samples; & also one specimen of Delphinaptorus leucas was examined.

GLK:sjh M

Piko, G.C. & B.E.Maxwell (1958) 580083
J.Fish.Res.Bd Canada, 15(1):5-17
The abundance and distribution of the North Sea-lion (Eumetopias jubata) on the coast of British Columbia

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.

GLK:sjh M

DeLury, D.B. (1958) 580084
J.Fish.Res.Bd Canada, 15(1):19-25
The estimation of population size by a marking and recapture procedure

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.

GLK:sjh MF

Miller, R.B. (1958) 580085
J.Fish.Res.Bd Canada, 15(1):27-45
The rôle of competition in the mortality of hatchery trout

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.

GLK:sjh F

Vladykov, V.D. & 580086
W.I. Follett (1958)
J.Fish.Res.Bd Canada, 15(1):47-77
Redescription of Lampetra ayresii (Günther) of Western North America, a species of lamprey (Petromyzontidae) distinct from Lampetra fluviatilis (Linnaeus) of Europe

Detailed ill. description of former, & comparison with latter, sp. Distribution, synonymy, morphometry.

GLK:sjh MF

Trites, R.W. & R.E.Banks (1958) 580087
J.Fish.Res.Bd Canada, 15(1):79-89
Circulation on the Scotian shelf as indicated by drift bottles

Analysis of surface movements by drift bottles released in Aug. 1954, suggests a cyclonic circulation centred near Sable Island Bank. Gives calculated drift speeds.

GLK:sjh M

Tabata, S. & 580088
R.J. LeBrasseur (1958)
J.Fish.Res.Bd Canada, 15(1):91-113
Sea water intrusion into the Fraser River and its relation to the incidence of shipworms in Steveston Cannery Basin

River discharge, tides, topography of river channel & basin influence settlement of larvae of Bankia setacea, survival of which is determined by salinity. Prediction that dredging channel would prevent infestation.

GLK:sjh MF

Manton, S.M. (1958) 580089
Nature, Lond., 181:748-51
Embryology of Pogonophora and classifications of animals

GLK MF

Fogg, G.E. & G.T. Boalch (1958) 580090
Nature, Lond., 181:789-90
Extracellular products in pure cultures of a brown alga

Preliminary announcement of an investigation of extracellular products liberated by Ectocarpus confervoides in pure culture, giving chemical characterisation of the products, with a view to current interest in occurrence of dissolved organic substance in natural waters.

GLK:glk M

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 Nile.

GLK:wad F

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

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

Announcement of plans for development of research on barracouta.

GLK:glk M

Anonymous (1958) 580094
Fish.News Lett.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

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

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

Kajosaari, H. (1958) 580097
FiskTidskr.Finl., 65(1):3-6
Emotaimonten kasvatus lammikossa

(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.

FAO:tl F

Anonymous (1958) 580100
FiskTidskr.Finl., 65(1)
Syntyykö Säkylän Pyhäjärveen uusi kalalaji

(Is there a new fish stock in lake Säkylän Pyhäjärvi)
Description of a bastard stock between vendace and powan in the lake.

FAO:tl F

Ryhänen, R. (1958) 580098
FiskTidskr.Finl., 65(1):8-13
Havaintoja kalojen tukehtumisesta ja "tuuletuskokeista" Mäyhäjärvellä

(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.

FAO:tl F

Dill, R.F. (1958) 580101
GeoTimes, 2(8):6-7
Investigating the sea floor with diving geologists

Brief description of the uses of Self-Contained-Underwater-Breathing Apparatus in the submarine geological investigations.

TL:tl M

Liedes, M. (1958) 580099
FiskTidskr.Finl., 65(1):15-21
Mitä kalamiehet miettivät

(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.

FAO:tl M

Tchernia, P., H. Lacombe & P. Guibout (1958) 580102
Bull.Com.centr.Océanogr., 10:115-43
Sur quelques nouvelles observations hydrologiques relatives à la région équatoriale de l'océan Indien

(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.

FAO:glk M

Bourcart, J., C. Lalou & M. Gennesseaux (1958) 580103
Bull.Com.centr.Océanogr., 10:144-52
Le relief sous-marin du précontinent entre le Rhône et La Ciotat

(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.

FAO:glk M

Gille, P. (1958) 580104
Bull.Com.centr.Océanogr., 10:153-7
Phénomènes de houie à Douarnenez

(Swell phenomena at Douarnenez)
Analysis of swell phenomena with reference to marine works.

FAO:glk M

Evans, J.H. (1958) 580105
J.Ecol., 46(1):149-67
The survival of freshwater algae during dry periods.Part I. An investigation of the algae of five small ponds

Preliminary account, with description of the ponds, methods of investigation, climatic factors, list of species, and results of experiments on survival conditions.

FAO:tl F

Union Géodésique et Géophysique Internationale (1958) 580106
Paris, 32 p.
Chronique de l'U.G.G.I. No.9

(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).

TL:tl M

Oppedal, G. (1958) 580107
Fiskeridir.Småskr., (1), 41 p.
Lofotfiskets lønnsomhet 1957

(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.

FAO:tl M

South Africa. Fisheries Development Corporation (1958) 580108
Cape Town, 6 p.
Thirteenth annual report

The Corporation's research programme, its activities and annual accounts. Covers period 1st October, 1956, to 30th September, 1957.

FAO:glk M

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

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

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

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

Krumholz, L.A. & D.P.de Sylva (1958) 580113
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

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 do statistiquos (1958) 580115
Rabat, 36 p.
Bullotin monsuol do statistiquo

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

FAO:sjh 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

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

Papandreou, 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

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

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

Hallgrímsson, I. (1958) 580121
Rit Fiskid., 2(6):5 p.
A short-cut method for estimating zooplankton composition while at sea

Short description of the method for estimating species frequency, and comparison of the estimates with conventional counting methods.

FiB:tl M

Anonymous (1958) 580122
Comm.Industr., 16:293-6
South Africa's fishing harbours

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.

FAO:glk M

Salo, E.O. & 580123
W.H. Bayliff (1958)
Res.Bull.Wash.Dep.Fish., (4), 76 p.
Artificial and natural production of silver salmon, Oncorhynchus kisutch, at Minter Creek, Washington

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.

FAO:glk MF

Shimada, B.M. (1958) 580124
Bull.interam.trop.Tuna Comm., 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 En Es

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.

FAO:glk M

Privett, D.W. (1958) 580125
Mar.Obs., 28(179):23-8
The exchange of heat across the sea surface

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.

FAO:tl M

Poulsen, E.M. (1958) 580126
International Commission for the Northwest Atlantic Fisheries, Halifax, N.S., 4 p.
Newsletter No. 27

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).

FiB:sjh M

Alabama. Dopartmont of Conservation (1958) 580127
Alexander City, Ala., 200 p.
Report for fiscal year October 1, 1956 - September 30, 1957

Includes reports on hatcheries, fisheries administration & research in connection with inland & marine sport & commercial fisheries.

FAO:sjh MF

Sagara, J. (1958) 580128
Bull.Jap.Soc.sci.Fish., 23:505-10
Artificial discharge of reproductive elements of certain bivalves caused by treatment of sea water and by injection with NH_4OH Ni En

Experiments with ammonium hydroxide immersion and injections into gonad to induce discharge of sexual products in Mactra veneriformis, M. sulcataria, Meretrix lusoria, Gryphaea gigas and Tapes japonica.

SJH:sjh M

Iitaka, Y. (1958) 580129
Bull.Jap.Soc.sci.Fish., 23:511-3
Model experiments on the sardine purse seine operating in Hyuganada. V. Ni En

Comparative study of sinking behaviour of bottom margins of nets made of cotton & of polyvinyliden chloride ("Saran").

SJH:sjh M

Suzuki, O. (1958) 580130
Bull.Jap.Soc.sci.Fish., 23:514-7
On the relation between the length of ground rope of a Danish seine and the variation of its gape

Behaviour of closing action with different lengths of ground rope and with different towing speeds were studied, by means of a model test.

SJH:sjh M

Nakagome, J. (1958) 580131
Bull.Jap.Soc.sci.Fish., 23:518-22
On the seasonal variation of swimming layers of yellowfin tuna, big eyed tuna and black marlin in the area of Caroline and Marshall Islands. I. On the seasonal variation of swimming layer Ni En

Depth distributions of Neothunnus macropterus, Parathunnus sibi & Makaira mazara on long-lines studied from monthly data 1951-56.

SJH:sjh M

Nakagome, J. (1958) 580132
Bull.Jap.Soc.sci.Fish., 23:523-4
Relation between seasonal variation of swimming layer of yellowfin tuna and big eyed tuna and vertical distribution of chlorinity Ni En

A study of long-line catches of Neothunnus macropterus & Parathunnus sibi in Caroline & Marshall Is. area.

SJH:sjh M

Nakagomo, J. (1958). 580133
Bull.Jap.Soc.sci.Fish., 23:525-8
Seasonal variation of hooked-rate and mean fork length and relation among hooked-rate, 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

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

Arasaki, S., K. Nozawa & M. Miyake (1958) 580135
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

Union Internationale des Sciences Biologiques (1958) 580136
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

Fage, 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

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

(Welcoming address)

FiB:glk M

Korringa, P. (1958) 580139
Un.int.Sci.biol., Sér.B (24):1-17
Water temperature and breeding throughout the geographical range of Ostrea edulis

Review of evidence on the relation between temperature and spawning in critical examination of the hypothesis that breeding temperature is a physiological constant for the species and of the alternative hypothesis that the species consists of races breeding at different water temperatures; with discussion of the practical and scientific implications of the conclusion reached.

FiB:glk M

Lubet, P. (1958) 580140
Un.int.Sci.biol., Sér.B (24):19-29
Cycle sexuel de Mytilus edulis L. et de Mytilus galloprovincialis Lmk. dans le Bassin d'Arcachon (Gironde)

(Sexual cycle of Mytilus edulis L. and of Mytilus galloprovincialis Lmk. in the Arcachon Basin (Gironde))
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 emission of sexual products.
FiB:glk M

Durchon, M. (1958) 580141
Un.int.Sci.biol., Sér.B (24):31-42
Problèmes posés par le comportement des Néréidiens au moment de leur reproduction

(Problems posed by the behaviour of Nereids at the moment of reproduction)
Discussion of observations on reproductive polymorphism in Perinereis cultrifera Grube and Nereis (Ceratonereis) costae Grube, and on differences in swarming behaviour of the former and of Nereis succinea Leuckart and Platynereis dumerilii Audouin and M. Edwards.

FiB:glk M

Marshall, S.M. & A.P. Orr (1958) 580142
Un.int.Sci.biol., Sér.B (24):43-7
The life history of the copepod Calanus finmarchicus in different latitudes

Discussion of differences in growth, development, migrations and reproduction at different latitudes.

FiB:glk M

Feldmann, J. (1958) 580143
Un.int.Sci.biol., Sér.B (24):49-56
La reproduction des algues marines dans ses rapports avec leur situation géographique

(Reproduction of marine algae in relation to their geographic situation)
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.

FiB:glk M

Levring, T. (1958) 580144
Un.int.Sci.biol., Sér.B (24):57-65
Some modern aspects of growth and reproduction in marine algae in different regions

Discussion of the rôle of various environmental factors in determination of certain aspects of growth and reproduction of marine algae.

FiB:glk M

FAO/58/5/3420

Barnes, H. (1958) 580145
Un.int.Sci.biol., Sér.B (24):67-85
Processes of restoration and synchronization in marine ecology. The spring diatom increase and the "spawning" of the common barnacle, Balanus balanoides (L.)

Regional and local evidence on the synchronization of the spring diatom outburst and naupliar development of B. balanoides, with experimental evidence on the stimulus for the release of nauplii as part of the processes involved in synchrony.

FiB:glk M

Kinne, O. (1958) 580146
Un.int.Sci.biol., Sér.B (24):87-92
A programmatic study of comparative biology of marine and brackish water animals

Discussion of field and laboratory investigations required for the establishment of an ecological diagnosis of a species.

FiB:glk M

Smith, R.I. (1958) 580147
Un.int.Sci.biol., Sér.B (24):93-107
A note on the tolerance of low salinities by nereid Polychaetes and its relation to temperature and reproductive habit

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 Neanthes lighti Hartman.

FiB:glk M

Korringa, P. (1958) 580148
Un.int.Sci.biol., Sér.B (24):109-16
On the supposed compulsory relation between oviparous oysters and waters of reduced salinity

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.

FiB:glk M

Schlieper, C. (1958) 580149
Un.int.Sci.biol., Sér.B (24):117-27
Comparative study of Asterias rubens and Mytilus edulis from the North Sea (30 per 1,000 S) and the Western Baltic Sea (15 per 1,000 S)

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.

FiB:glk M

Verwey, J. (1958) 580150
Un.int.Sci.biol., Sér.B (24):129-49
A plea for the study of temperature influence on osmotic regulation

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 accomodating seasonal and other changes in temperature and salinity.

FiB:glk M

FAO/58/5/3420

Teissier, 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

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

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 téléostéen 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 Gullmarsfjiord 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

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 enchrasicholus, E. ringens, E. mordax, Sardinops ocellata, S. melanosticta, S. pilchardus, S. sagax, S. caerulea, Cetengraulis mysticetus & Clupea harengus, illustrating all but the last, and giving measurements of the last five.

FiB:glk M

Matsakis, J. & G. Petit (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, 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 those forms.

FiB:glk M

FAO/58/5/3420

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

Reasons why physiological adaptations do not nocessarily 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. & A.P. Orr (1958) 580160
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

FAO/58/5/3420

Barigozzi, C. (1958) 580163
Un.int.Sci.biol., Sér.B (24):241-50
Différenciation des génotypes 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 these; 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 Porcellidium 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

Segerstrâle, 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

Buchsbaum, R. (1958) 580169
Un.int.Sci.biol., Sér.B (24):283-5
Palcological factors in the sea

Discussion of types of data needed for marine palcoocology and of the opportunities for application of its methods in marine research generally.

FiB:glk M

Zenkevitch, L. (1958) 580172
Un.int.Sci.biol., Sér.B (24):317-20
Program of researches of marine biology proposed for the International Geophysical Year

Suggestions of lines of research and listing of stations proposed to be coopted to the programme.

FiB:glk M

Kostovon, G.L., H. Rosa & S.J. Holt (1958) 580170
Un.int.Sci.biol., Sér.B (24):287-97
A note on abundance and distribution of marine organisms of economic importance

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.

FiB:glk M

Mann, K.H. (1958) 580173
J.Inst.Biol., 5:29
A river studies centre at Reading

Notice of establishment of the centre by the University of Reading, with account of equipment, and problems to be studied.

GLK:glk M

Bogorov, B.G. (1958) 580171
Un.int.Sci.biol., Sér.B (24):299-315
Unification of plankton research

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.

FiB:glk M

Graham, A. (1958) 580174
J.Inst.Biol., 5:37
Plymouth marine fauna

Review of book with same title by the Marine Biological Association (1957).

GLK:glk M

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

Sitarz, J. (1958) 580178
Trav. Cent.Rech.Etud.océanogr., 3(1):23-31
Mise au point et essais d'un courantomètre électrique à électrodes remorquées (G.E.K.) le long de la côte méditerranéenne 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

Duroche, J. & J. Serpaud (1958) 580176
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) 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

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 observations 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

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

FAO/58/5/3420

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

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

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

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

Dales, 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

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 emitted in a flash by single elytra of two polynoid worms has been measured, viz. Acholoë astericola and Lagisca extenuata. Maximal emission occurs at 515 mμ.

HR:hr M

FAO/58/5/3420

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 emission 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 mμ, with a maximum at about 490 mμ. The emission curve is compared with the action spectrum determined by Hecht.

HR:hr M

Russell, F.S. (1958) 580190
J.Mar.biol.Ass.U.K., 37:81-4
Notes on the medusa, Amphinema 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, E.D.S. & F.H. Rigler (1958) 580191
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

Llewellin, 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

Allen, J.A. (1958) 580192
J.Mar.biol.Ass.U.K., 37:97-112
Observations on Cochlodesma pratenue (Pultency) (Eulamellibranchia)

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 rachelae n.sp., a Copepod 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 mucopolysaccharides.

HR:hr

Spencer, C.P. (1958) 580195
J.Mar.biol.Ass.U.K., 37:127-44
The chemistry of ethylenediamine tetraacetic 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 intertidal 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

Parke, 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 hatptonema. Microanatomical facts are also given.

HR:hr M

Nowell, G.E. (1958) 580199
J.Mar.biol.Ass.U.K., 37:?29-39
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

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

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

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

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) 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

FAO/58/5/3420

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

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

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

Lacombe, H. & P. Tchernia (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

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

Lennon, 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

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

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

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

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

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

Nanney, 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

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

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

GLK:tl M

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

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

GLK:wad MF

FAO/58/5/3420

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AFRICA			
Morocco			580016
Africa, East Central			580063
NORTH AMERICA			
Canada	580032	580033	580034
	580035		
United States of America		580031	580061
Florida			580021
LATIN AMERICA			
Cuba		580053	580054
Brazil			580020
ASIA			
Israel			580055
EUROPE			
Denmark			580030
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	580012		
Turkey	580041	580042	580044
	580046	580048	580056
	580057	580060	
UNION SOVIET SOCIALIST REPUBLICS			
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Atlantic, North East			580025
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	580050		

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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)

FAO/58/6/4166

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

110 Northwestern area

111 Tunisia
112 Algeria
113 Morocco
114 Sp. Possessions in N. Africa. Tangier. Canary Is.
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. Madagascar Dependency (except Adelie Land). Reunion
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 Ethiopean 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

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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:
N. and S. Carolina, Georgia, 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.). Swan Is.
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

410 S. W. Asia

411 United Arab Republic (Syria). Lebanon
412 Cyprus
413 Israel
414 Jordan
415 Saudi Arabia. Yemen. Aden Colony and Protectorate. Muscat and Oman. Trucial Oman. Kuwait. Bahrein. Qatar.
416 Iraq
417 Iran
418 Afghanistan

420 Central area

421 Pakistan /whole country, or W. Pakistan only/
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 and Keeling Is./
434 Indonesia. Port. Timor
435 New Guinea (Neth.)
436 Br. Borneo /incl. Brunei, Sarawak, N. Borneo/
437 Philippines
438 Cambodia. 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 /420 and 430 except 434/6/

500 EUROPE

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
608 Australian Zoogeographical Region /incl. 435 and part of 434/
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 (Austr.). Papua

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. Possessions
652 Palmyra. Jarvis. Howland. Canton and Enderbury Is. (U.S.)

660 Hawaian 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: Novaya Zemlya, Franz Josef Land, 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 GROUPINGS

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, general
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; trust territories
869 Miscellaneous administration /incl. Danish, Norw./

880 Zoogeographical Regions /other than 180, 208, 308, 480, 608/

881 Holarctic realm
882 Palaearctic region

Land Areas Code - Alphabetic Index

FAO/58/6/4166

A ATLANTIC OCEAN

AN Atlantic, N.

ANW Atlantic, N.W.:
Baffin B., Davis Strait, Hudson B., G. of St. Lawrence, G. of Maine, Chesapeake B., B. of Fundy

ANE Atlantic, N.E.:
White Sea, Barents Sea, Greenland Sea, North Sea, Baltic Sea, G. of Bothnia, G. of Finland, English Channel, Irish Sea, Norwegian Sea

AS Atlantic, S.

ASW Atlantic, S.W.:
G. of Mexico, Caribbean Sea

ASE Atlantic, S.E.:
B. of Biscay, Mediterranean Sea (Western and Eastern Mediterranean; Tyrrhenian, Aegian, Ionian, Adriatic Seas), Sea of Marmara, Black Sea, Sea of Azov, G. of Guinea

I INDOPACIFIC OCEAN

IN Pacific, N.:
Japan Sea, Sea of Okhotsk, Bering Sea, G. of Alaska, Georgia Strait

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.:
G. of California, G. of Panama

P POLAR SEAS

PN Arctic Ocean:
N. Polar Basin, Kara Sea, Laptev Sea, E. Siberian Sea, Chuckchee Sea, Beaufort Sea

PS Southern Ocean

PSW Southern Ocean, W.

PSE Southern Ocean, E.:
Great Australian Bight, Tasman Sea

PSEW S. Polar Seas:
Scotia Sea, Weddell Sea, King Haakon VII Sea, Ross Sea, Roald Amundsen Sea, Bellingshausen Sea

L INLAND SEAS AND INTERTERRITORIAL LAKE SYSTEMS

L.11 East African Lakes:
L. Rudolph, L. Edward, L. Albert, L. Kiyu, L. Victoria, L. Tanganyika, L. Nyassa, L. Moero

L.21 American Great Lakes:
L. Nipigon, L. Superior, L. Michigan, L. Huron, L. Erie, L. Ontario

L.31 L. Titicaca

L.71 L. Ladoga

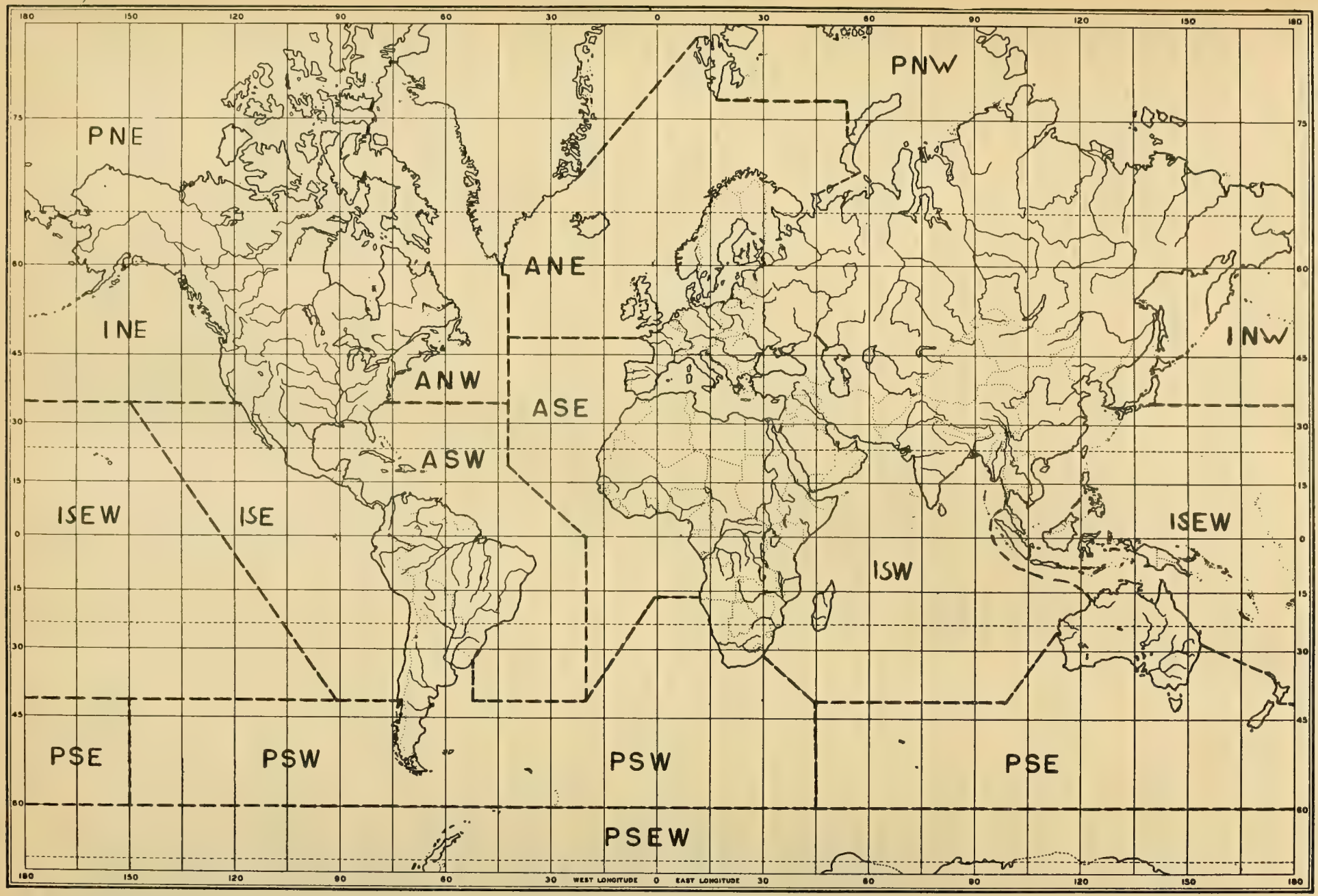
L.72 Caspian Sea

L.73 Aral Sea

L.74 L. Balkhash

L.75 L. Baikal

MARINE AREAS



GOODE'S SERIES OF BASE MAPS
HENRY M. LEPPARD, EDITOR

C. 677

AFRICA			
Morocco		580077	580115
United Arab Republic (Egypt)			580091
Union of South Africa		580108	580122
NORTH AMERICA			
Canada		580086	580087
British Columbia			580083
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United States of America			580117
USA, northwestern			580123
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India	580071	580069	580072
Ceylon			580116
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Queensland			580094
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Caroline Is.		580131	580132
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Atlantic, N.W.			580126
B. of Fundy			580082
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Baltic Sea		580149	580168
English Channel		580183	580197
Atlantic, S.W.		580113	580114
Atlantic, S.E.			580181
Mediterranean	580175	580178	580208
Mediterranean, W.	580179	580206	580207
INDOPACIFIC OCEAN			
Pacific, N.	580096	580124	580152
Indian Ocean			580102
Indopacific, Central	580131	580132	580133

Bertelsen, 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:tl 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

Bowden, 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:tl M

Jónsson, J. (1958) 580228
Ægir, 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.

FiB:glk M

Manning, J. (1958) 580229
Sea Frontiers, 4(1):5-12
"Robinson Crusoe" waters

Notes on the marine resources around the Juan Fernandez islands off Chilean coast.

HR:tl M

Voss, G.L. & N.A. Voss (1958) 580232
Sea Frontiers, 4(1):27-37
Prince of oceanography

Popular notes on the activities of Prince Albert I of Monaco as oceanographer and marine biologist.

HR:tl M

Miller, S. (1958) 580230
Sea Frontiers, 4(1):13-22
Why shipbottom paints fail

Popular notes on marine fouling: its cause and prevention.

HR:tl M

Long, E.J. (1958) 580233
Sea Frontiers, 4(1):38-41
Almost too ugly for words!

Notes on the behaviour and distribution of the frogfishes (Antennariidae).

HR:tl M

Dickson, F.J. (1958) 580231
Sea Frontiers, 4(1):23-6
Estuary and marsh

Notes on the activities and scientific problems of the Marine Laboratory of the University of Georgia.

HR:tl MF

Idyll, C.P. & W. Saenz (1958) 580234
Sea Frontiers, 4(1):42-50
Honduras - A fisheries potential

Review of the fisheries of Honduras, the prices and demand for fish, and prognoses on the fisheries resources in the waters around Honduras.

HR:tl M

Emiliani, C. (1958) 580235
Sea Frontiers, 4(1):51-6
Age of man and the sea floor

Popular notes on submarine geology with emphasis on paleoclimatology.

HR:tl M

Martin, D.C. (1958) 580236
Geogr.J., 124(1):18-29
The International Geophysical Year

A general account of the program, with emphasis on contribution by United Kingdom.

FAO:sjh M

Chittleborough, R.G. (1958) 580237
Norsk Hvalfangsttid., 47:109-37
An analysis of recent catches of humpback whales from the stocks in Groups IV and V. No En

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.

FAO:tl M

Clark, E.S., Jr. (1958) 580238
Norsk Hvalfangsttid., 47:138-43
Right whale (Balaena glacialis) enters Cape Cod Canal, Massachusetts, U.S.A.
No En

Note on the behaviour of the whale.

FAO:tl M

Anonymous (1958) 580239
Norsk Hvalfangsttid., 47:143-4
Catch reports - The summer season 1957.
No En

Whaling statistics.

FAO M

Anonymous (1958) 580240
Norsk Hvalfangsttid., 47:147
Catch reports from South Georgia. No En

Whaling statistics.

FAO M

FAO/58/6/4166

Anonymous (1958) 580241
Norsk Hvalfangsttid., 47:148-9
Pelagic whaling in the Antarctic 1957/58. No En

FAO M

Anonymous (1958) 580242
World Fish., 7(1):54-6
Uganda markets £1,200,000 of fish a year - There is scope for a substantial fishing industry in the future

Popular review of the fishing industry.

FiB:wad F

Anonymous (1958) 580243
New Scient., 3(68):9
Round the world in ATLANTIS

Brief note on the oceanographic programme of IGY.

FAO:sjh M

Anonymous (1958) 580244
New Scient., 3(68):34
Another Arctic ridge

A note, with map, on discovery, from a Drifting IGY Station on an ice-floe, of a new submarine ridge at 5,000 ft, 83½° N, 167° W.

FAO:sjh M

Klingler, K. (1958) 580245
Allg.Fisch.Ztg., 83(1-2):3-8
Forellenfütterung und neue Krankheit (infektiöse Nierenschwellung und Leberdegeneration der Regenbogenforelle = INuL)

(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.

WAD:tl F

de Clerville, (1958) 580246
Pêche marit., 37(960):137-40
M. de Clerville expose les buts de la Société d'étude pour la pêche en Afrique noire

(M. de Clerville 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.

FAO:glk M

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

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

TL MF

Bates, 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:tl 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:tl 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:tl M

Sandvaer, G. (1958) 580249
Aarsberetn.Norg.Fisk., (5):86 p.
Lofotfisket 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:tl M

Rex, 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:tl 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

Trewavas, 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

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

Notice of plan to explore submerged harbour in Libya.

FAO:sjh M

General Fisheries Council for the Mediterranean (1958) 580256
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

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

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 ameliorative and legislative measures taken and proposed.

FiB:sjh F

Baltardivo, C. (1958) 580259
C.R.Acad.Sci., Paris, 246:2295-6
Sur la régénération de la région pharyngienne chez Syllis gracilis Grube (Annélide Polychète)

(On the regeneration of the pharyngeal region of Syllis gracilis Grube (Polychaete annelid))
A short note on an experimental and histological study of this phenomenon.

FAO:sjh M

Nigeria. Federal Fisheries Service (1958) 580262
Lagos, 10 p.
Annual report for the year 1956-57

Staff, visitors, organization, meetings. Proposals for future development of service; Research projects. (Sea-Fishing-Scientific; Sea-Fishing-Technological; Fish Culture - Technological).

FAO:sjh MF

Durchon, M. (1958) 580260
C.R.Acad.Sci., Paris, 246:2297-8
Potentialités de sexualisation réelles et virtuelles au cours de la stolonisation chez les Syllinae (Annélides Polychètes)

(Real and virtual sexual potential during stolonization in the Syllinae (Polichaete annelids))
Note on experiments with, and observations on Syllis amica, S. vittata and Trypanosyllis zebra.

FAO:sjh M

Gunston, D. (1958) 580263
Penn. Angler, 27(1):6-7
Fish growing old

Popular article on growth and age in fish; gives some longevity records.

FiB:wad MF

Wright, P.G. (1958) 580261
Nature, Lond., 181:64-5
An electrical receptor in fishes

Reports on some evidence for the existence of an electrical receptor in Mormyrus kannume.

GLK:hr F

Dunbar, J. (1958) 580264
Collins, 192 p.
The lost land - Underwater exploration in the isles of Scilly

M

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 Ragleigh components. Use in pin-pointing oceanic storm centres at up to 1000 miles range.

FAO:sjh M

Shearer, 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 colliei, 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

Emiliani, C. (1958) 580271
Sci.Amer., 198(2):54-63
Ancient temperatures

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.

GLK:sjh MF

Donton, E.J. & M.A. Walker (1958) 580274
Proc.roy.Soc. (B), 148:257-69
The visual pigment of the conger eel

Description of new methods of studying spectral absorption of intact retina, and their application to C. conger L.

FAO:sjh M

Hill, H.W. & A.J. Lee (1958) 580272
Proc.roy.Soc., (B), 148:104-16
The effect of wind on water transport in the region of the Bear Island fishery

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.
FAO:sjh M

North, W.J. & C.F.A. Pantin (1958) 580275
Proc.roy.Soc.(B), 148:385-96
Sensitivity to light in the sea-anemone Metridium senile (L): adaptation and action spectra

Experiments to study response by local longitudinal contraction to light of various wavelengths; comparison of red. white and brown colored varieties of the sp.

FAO:sjh M

Cronshaw, J. & R.D. Preston (1958) 580273
Proc.roy.Soc.(B), 148:137-48
A re-examination of the fine structure of the walls of vesicles of the green alga Valonia

Review of previous work, a description of new studies by X-ray analysis and electronmicroscopy, on V. ventricosa and other spp.

FAO:sjh M

U.K. Ministry of Agriculture, Fisheries & Food (1958) 580276
Lab.Leafl., Lowestoft, (18):3 p.
The East Anglian herring season 1957

Comparison of forecast made on basis of age analysis with the actual results and with data from experimental echo-survey of Clupea harengus.

SJH:sjh M

Kietz, H. (1958) 580277
Allg.Fischwirtschaft Ztg., 10(17/18):26-8
Ein neuartiges Echoaufzeichnungsverfahren

(A new method of recording echotraces)
Description of the new technical methods for magnifying fish traces on the echograms.

FAO:tl M

Moses, V., O. Holm-Hansen & M. Calvin (1958) 580280
Biochim.biophys.Acta, 28(1):62-70
Response of Chlorella to a deutorium environment

FAO F

Wiborg, K.F. (1958) 580278
Fiskeridir.Skr.Havundersøk., 12(1):17 p.
Quantitative variations of the zooplankton in Norwegian coastal and offshore waters during the years 1949-56

Extended report to the author's two earlier papers (1954 and 1955) on the quantitative seasonal variation of zooplankton in the Norwegian coastal area.

GLK:tl M

Phillips, J.B. (1958) 580281
Calif.Fish Game, 44(1):79-84
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 M

Bishop, N.I. & H. Gaffron (1958) 580279
Biochim.biophys.Acta, 28(1):35-44
The inhibition of photosynthesis by sodium fluoride. I. The sodium fluoride induced carbon dioxide burst from Chlorella

FAO F

Munro, I.S.R. (1958) 580282
Fish.News Lett.Aust., 17(3):17-20
Handbook of Australian fishes

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

GLK:tl MF

Serventy, D.L. (1958) 580283
Fish.News Lett.Aust., 17(3):25
C.S.I.R.O. wants bands from mutton birds

Notes on migration of sea birds, especially Tasmanian mutton-bird and notes on recoveries of banded mutton birds.

GLK:tl M

Anonymous (1958) 580284
Fish.News Lett.Aust., 17(3):27
Queensland research on three fishes

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.

GLK:tl M

Anonymous (1958) 580285
New Scient., 3(74):13
Nylon defeats sea worms

Short report of tests at Port Harcourt, Nigeria, of protection of wooden hulls from Teredo by a nylon film.

FAO:sjh M

Dietz, R.S. (1958) 580286
New Scient., 3(74):30-2
Deep sea research in the bathyscaph TRIESTE

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.

FAO:sjh M

Anonymous (1958) 580287
New Scient., 3(74):41
Fishes with electric fields

Short account of and comment on work by H.W. Lissmann, published in J.exp.Biol., 35(1) on the action and origin of electric organs in Mormyridae and Gymnotidae in African rivers.

FAO:sjh F

Schaefers, E.A. & D.E. Powell (1958) 580288
Comm.Fish.Rev., 20(2):7-15
Correlation of midwater trawl catches with echo recordings in the North-eastern Pacific

Identification of "Sea Scanar" traces by research vessel catching Sebastodes, Merluccius, Anoplopoma, Squalus, Pandalus and Atheresthes spp.

FAO:sjh M

FAO/58/6/4166

Anonymous (1958) 580289
Comm.Fish.Rev., 20(2):21-3
California - Airplane spotting flights study abundance and distribution of Pacific sardines and anchovies

FAO M

Anonymous (1958) 580290
Comm.Fish.Rev., 20(2):24
California - Investigations of abalone resources continued

FAO M

Anonymous (1958) 580291
Comm.Fish.Rev., 20(2):24-5
California - Study of preseason Dungeness crab population

FAO M

Anonymous (1958) 580292
Comm.Fish.Rev., 20(2):27-8
Great Lakes fishery investigations - Western basin of Lake Erie surveyed

FAO F

Anonymous (1958) 580293
Comm.Fish.Rev., 20(2):28-9
Gulf exploratory fishery program - Tuna and shrimp survey in eastern Caribbean and off northeast coast of South America

FAO M

Anonymous (1958) 580294
Comm.Fish.Rev., 20(2):31
North Atlantic fisheries investigations - Haddock tagging and collections cruise

FAO M

Anonymous (1958) 580295
Comm.Fish.Rev., 20(2):31
North Atlantic fisheries investigations - Survey of herring larvae distribution and nontidal-drift pattern

FAO M

Anonymous (1958) 580296
Comm.Fish.Rev., 20(2):32
Oregon - Commercial fisheries regulations revised

FAO M

Anonymous (1958) 580297
Comm.Fish.Rev., 20(2):33-4
Pacific Oceanic fishery investigations - Largest introduction of Marquesan sardines to Hawaiian waters

FAO M

Anonymous (1958) 580298
Comm.Fish.Rev., 20(2):33
Oregon - Revision of shrimp fishing regulations under study

FAO M

Anonymous (1958) 580299
Comm.Fish.Rev., 20(2):34
Pacific oceanic fishery investigations - Stomach contents of skipjack tuna studied for clues to catchability

FAO M

Anonymous (1958) 580300
Comm.Fish.Rev., 20(2):34-5
Pacific oceanic fishery investigations - International Geophysical Year stations occupied and oceanographic and biological data collected in Marshall Islands area

FAO M

Anonymous (1958) 580301
Comm.Fish.Rev., 20(2):35
Pacific oceanic fishery investigations - Oceanographic and biological data collected

FAO M

Anonymous (1958) 580302
Comm.Fish.Rev., 20(2):35-6
Pacific oceanic fishery investigations - Winter abundance and distribution of skipjack tuna in Hawaiian waters surveyed

FAO M

Anonymous (1958) 580303
Comm.Fish.Rev., 20(2):37-8
Pacific oceanic fishery investigations - Marquesas Islands area surveyed for surface tuna schools and live bait

FAO M

Anonymous (1958) 580304
Comm.Fish.Rev., 20(2):39-40
South Atlantic exploratory fishery program - Equipment for producing films of shrimp trawls in operation tested

FAO M

Anonymous (1958) 580305
Comm.Fish.Rev., 20(2):40-1
South Atlantic exploratory fishery program - Exploratory royal-red shrimp fishing cruise off Florida east coast completed

FAO M

Anonymous (1958) 580306
Comm.Fish.Rev., 20(2):41-2
Sponges - Research shows how to revitalize America's resource

FAO M

Anonymous (1958) 580307
Comm.Fish.Rev., 20(2):45
Virginia - Biologists find that croakers go south for winter

FAO M

Van Campen, W.G. (1958) 580308
Comm.Fish.Rev., 20(2):67-8
Tuna resources of the equatorial Atlantic

English translation of 580309.

FAO M

Nagai, M. & A. Nakagome (1957) 580309
Tuna Fish., (42):21-6
Tuna resources of the equatorial Atlantic. Ni

M

Carlander, K.D. (1958) 580310
Iowa St.Coll.J.Sci., 32(3):395-417
Some simple mathematical models as aids in interpreting the effect of fishing

Application to Stizostedion vitreum population of Clear Lake, Iowa, of a series of simple arithmetical models; comparison of predictions from these and general discussion of their usefulness.

SJH:sjh MF

Oppedal, G. (1958) 580311
Fiskeridir.Smaskr., (2):31 p.
Vintersildfiskets lønnsomhet 1957

(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.

FAO:tl M

Taylor, C.C. (1958) 580312
Fish.Bull., U.S., 58(126):1-7
Natural mortality rate of the Georges Bank haddock

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.

FiB:sjh M

Australia. Fisheries Division (1957) 580313
Canberra, 54 p.
Australian fisheries statistics (excluding whaling and pearling statistics), 1951/52 - 1955/56

MF

Canada. Dominion Bureau of Statistics (1957) 580314
Ottawa, 14 p.
Fisheries statistics of Canada (British Columbia), 1956. En Fr

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.

MF

Canada. Dominion Bureau of Statistics (1957) 580315
Ottawa, 73 p.
Fisheries statistics of Canada (Quebec), 1955. En Fr

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.

MF

Canada. Dominion Bureau of Statistics (1957) 580316
Ottawa, 22 p.
Fisheries statistics of Canada (Prince Edward Island), 1956. En Fr

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.

M

Gulf States Marine Fisheries Commission (1957) 580317
New Orleans 16, 49 p.
Gulf States Marine Fisheries Commission Eighth Annual Meeting (Meeting Minutes)

M

Food & Agriculture Organization of the United Nations (1957) 580318
Rome, Item 7(b) of the Provisional Agenda, C 57/30, 17 p.
Expanded Technical Assistance Program (Report by the Director-General)

FAO: MF

Food & Agriculture Organization of the United Nations 580319 (1957)
Rome, 171 p.
The state of food and agriculture

Includes review of world fisheries situation.

FAO:sjh MF

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

Revision of 1950 publication on biology and fishery for Penaeus setiferus, P. brasiliensis, P. aztecus, P. duorarum and Xyphopenaeus kroyeri.

M

Nyasaland (1957) 580320
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.

F

Economic Commission for Asia and the Far East 580323 (1957)
E/CN.11/DPWP.3/L.9 (Limited), 14 p.
Fishery programmes in relation to agricultural and economic planning

FAO: MF

Leger, 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.

M

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 M

Tait, J.B. (1957) 580325
Mar.Res., (2):309 p.
Hydrography of the Faroe-Shetland Channel

A monograph giving a detailed presentation of the vertical 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.

FAO:wad M

Deacon, G.E.R. (1958) 580326
Nature, Lond., 181:214-5
Hydrography of the Faroe-Shetland Channel

Review of 580325.

GLK M

Cox, I. (Ed.) (1957) 580327
Shell' Transport & Trading Company, Ltd., London, 135 p.
The scallop: studies of a shell and its influences on humankind

Contains 8 chapters, profusely ill. in colour and each by a different author on different aspects of Pecten, 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. Rees (580711).

GLK:sjh M

Schoffeniels, E. (1958) 580328
Nature, Lond., 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

Describes application of a method developed for Electrophorus to Raja eglanteria.

GLK:wad M

Jacob, J. (1957) 580329
Trans.roy.Soc.Edinb., 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)

M

Moulton, J.L. (1957) 580330
Breviora, (80):4 p.
A collection of drawings of fishes.

MF

Kramp, P.L. (1957) 580331
Rep.A.N.A.R.E., Ser. B, 1:6 p.
Some jellyfish from Macquarie Island and Heard Island

M

Brown, K.G. (1957) 580332
Rep.A.N.A.R.E., (16):34 p.
The leopard seal at Heard Island

M

Vendrely, R., A. Knobloch & H. Matsudaira (1958) 580333
Nature, Lond., 181:343
A comparative biochemical study of nucleohistones from different vertebrates

Study of nucleohistones of calf thymus and erythrocytes of carp, trout, pike, [illegible], frog, fowl and duck showed similarity of general composition.

GLK:hr F

Peterson, G.H. (1958) 580334
Nature, Lond., 181:356-7
Distinction between Cardium edule L. and Cardium lamarcki Reeve

Describes differences in morphology and distribution of forms from Danish estuaries. Also discusses C. exiguum.

GLK:wad MF

Murthy, V.S.R. & A. Venkataramaiah (1958) 580335
Nature, Lond., 181:360-1
The diatom Asterionella in the Krishna Estuary Region

Describes unusual planktonic bloom, mainly of Asterionella, causing discoloration of sea water in India.

GLK:wad MF

Fisher, R.A. & F. Yates (1957) 580336
Oliver & Boyd, Ltd., Edinburgh & London, 138 p.
Statistical tables for biological, agricultural and medical research

5th ed. of 1953 public. Tables extended to provide for logit, and loglog transformations.

:sjh MF

Schneider, E. & L.F. Whitney (1957) 580337
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.

MF

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

M

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 Helland-Hansen

An obituary and short account of his contribution to oceanography.

GLK:sjh M

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 M

Warburton, F.E. (1958) 580342
Nature, Lond., 181:493-4
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 M

Rao, C. Radhakrishna (1958) 580343
Biometrics, 14(1):1-17
Some statistical methods for comparison of growth curves

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.

FAO:sjh MF

Sprott, D.A. (1958) 580346
Biometrics, 14(1):97-106
The method of maximum likelihood applied to the Poisson binomial distribution

Describes procedure, and compares with efficiencies of methods of moments and sample zero frequency.

FAO:sjh MF

Bross, I.D.J. (1958) 580344
Biometrics, 14(1):18-38
How to use ridit analysis

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.

FAO:sjh MF

Harris, E.K. (1958) 580347
Biometrics, 14(1):136
On the probability of survival of bacteria in sea water

Abstract of paper presented to 10th Ann. Meeting of Biometric Society (10-13/9/57) on experiments with Salmonella and coliform organisms.

FAO:sjh M

Sukhatme, P.V., V.G. Panse & K.V.R. Sastry (1958) 580345
Biometrics, 14(1):78-96
Sampling technique for estimating the catch of sea fish in India

Revised and expanded version of paper presented by first two authors to International Biometric Symposium Campinas, Brazil, 4-9/7/55 (1955, FAO, mimeo).

FAO:sjh M

Bougis, P. & R. Mužinić (1958) 580348
Acta adriat., 8(9):14 p.
Sur la croissance de Mullus barbatus (L. dans les eaux de Split

(Growth of Mullus barbatus (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 th biology of the species is given.

GLK:hr M

Massmann, W.H. & A.L. Pacheco (1957) 580349
J.Wildlife Mgmt, 21:351-2
Shad catches and water temperatures in Virginia

Relation between temperature and daily catches per unit effort of Alosa sapidissima in York River.

GLK:sjh M

McHugh, J.L. & R.S. Bailey (1957) 580350
Virginia J.Sci., 8(1):42-64
History of Virginia's commercial fisheries. Neglected historical records throw light on today's problems

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.

GLK:sjh MF

Andrews, J.D. & J.L. McHugh (1957) 580351
Proc.nat.Shellf.Ass., 47(1956):3-17
The survival and growth of South Carolina seed oysters in Virginia waters

Growth, mortality, yields, condition, resistance to fungus Dermocystidium marinum.

GLK:sjh M

Haven, D. & J.D. Andrews (1957) 580352
Proc.nat.Shellf.Ass., 47(1956):43-9
Survival and growth of Venus mercenaria, Venus campechiensis, and their hybrids in suspended trays and on natural bottoms

Experiments conducted at Gloucester Point, Virginia, from 1954.

GLK:sjh M

Hargis, W.J., Jr. & al. (1957) 580353
Proc.nat.Shellf.Ass., 47(1956):68-72
Some effects of high-frequency x-rays on the oyster drill Urosalpinx cinerea

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 inradiation would have to be sought in practice.

GLK:sjh M

McHugh, J.L. (1957) 580354
Proc.nat.Shellf.Ass., 47(1956):83-102
Trapping oyster drills in Virginia. III. The catch per trap in relation to condition of bait

Experiments in the control of Urosalpinx cinerea and Eupleura caudata.

GLK:sjh M

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

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 MF

Artüz, I. (1958) 580357
Balik Balikçilik, 6(4):1-12
Torik-Palamut ve Sarda sarda larin Mevsim ve Senelere Bağli Av Peryotlari

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

SJH:sjh M

Atli, M. (1958) 580358
Balik Balikçilik, 6(4):15-9
Baliklarimizi Taniyalim: Kolyoz - Uskumru

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

SJH:sjh M

Ünor, S. (1958) 580359
Balik Balikçilik, 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

Tezol, R. (1958) 580360
Balik Balikçilik, 6(4):24-9
Boğaziçinde Tarihî Kiliç Balikçiliği

(Sword-fish fishing in the Bosphorus)
A fisherman's notes on this fishery a half-century ago.

SJH:sjh M

Anonymous (1958) 580361
Allg.FischwirtschaftZtg., 10(4):2
Deutsche Trawler auf neuem Heringsfanggrund

(German trawler on new herring fishing ground)
Note on the German herring fishery in Irish Sea.

FAO:tl M

Anonymous (1958) 580362
Allg.FischwirtschaftZtg., 10(4):13-4
Die Weltfischerei 1956

(The world fisheries 1956)
Review and summary from FAO Yearbook of Fishery Statistics.

FAO:tl M

Hempel, G. (1958) 580363
Allg.FischwirtschaftZtg., 10(6):10-1
Forschungspläne der deutschen Fischereibiologen

(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.

FAO:tl M

Kühl, H. (1958) 580364
Allg.FischwirtschaftZtg., 10(7):42-4
Fischereibiologen durchforschen das Meer

(The fisheries biologists investigate the sea)
A review of the actual problems of fisheries biology and the methods used by fisheries biologists to solve these problems.

FAO:tl M

Hempel, G. (1958) 580365
Allg.FischwirtschaftZtg., 10(10):15-6
Deutsche Meeresforschung im Internationalen Geophysikalischen Jahr

(German oceanography in the International Geophysical Year)
A review of the German oceanographic programme during IGY.

FAO:tl M

Schubert, K. (1958) 580366
Allg.FischwirtschaftZtg., 10(13-14):14-8
Biologisch bedingte Qualitätsunterschiede beim Hering

(The quality differences in herring, from biological causes)
Notes on the quality of herring with different stage of maturity.

FAO:tl M

Dehl, E. (1958) 580367
Allg.FischwirtschaftZtg., 10(16):2
Wie beseitigen wir die Gefahr einer Überfischung der südlichen Nordsee?

(How do we settle the danger of overfishing in the southern North Sea?)
Discussion on the overfishing on Dogger Bank and suggestion for a three years close season.

FAO:tl M

Sunesson, S. (1958) 580370
Bot.Notiser, 111(1):195-9
Lithothamnion calcareum vid svenska västkusten

(Lithothamnion calcareum on Swedish west coast)
Notes on the sporadic occurrence of this calcareous algae along the Swedish west coast and short description of the specimens found

FAO:tl M

Southward, A.J. (1958) 580368
Biol.Rev., 33:137-77
The zonation of plants and animals on rocky sea shores

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.

FAO:tl M

Clows, J. (1958) 580371
New Scient., 3(66):16-8
Holland's new polders

Land reclamation projects; mentions relation to fisheries and navigation, and changes from saline to fresh water.

FAO:sjh MF

Smith, A.U. (1958) 580369
Biol.Rev., 33:197-253
The resistance of animals to cooling and freezing

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.

FAO:tl MF

Anonymous (1958) 580372
New Scient., 3(66):32
Descents off Japan

Briefly reports arrangements for French bathyscaphe to dive, during summer, 1958 to 3000 m. N. of Tokio.

FAO:sjh M

Green, J.H.S. (1957) 580373
Research, Lond., 10:374-8
De Réaumur

Short biography includes mention of his studies on growth of mollusc shells and on locomotion of crayfishes and lobsters.

FAO:sjh MF

Woodcock, A.H. (1957) 580376
Tellus, 9:521-4
Atmospheric sea-salt nuclei data for Project Shower

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.

FAO:tl M

Anonymous (1957) 580374
Research, Lond., 10:402-4
Electrodialysis plant for desalting brackish water

Ill. description of plant.

FAO:sjh F

Squires, P. & S. Twomey (1957) 580377
Tellus, 9:538-40
Some observations of sea-salt nuclei data in Hawaii during Project Shower

Testing of the hypothesis that a portion of the salt content of the Trade air is rained out as the air moves up the volcano slopes on the island.

FAO:tl M

Happold, F.C. (1957) 580375
Research, Lond., 10:443-8
The biological treatment of effluents

A review of principles and applications of bacterial oxidation of monohydric phenols, cyanide, thiocyanate, and other compounds.

FAO:sjh F

Sufi, S.M.K. (1957) 580378
Agric.Pakist., 8:208-29
Fish-fauna of the Kinjar Lake (West Pakistan) with an account of the major fishing implements employed by the local fishermen

33 species belonging to 24 genera are listed with brief general notes.

FAO:tjj F

Japan. Meteorological Agency (1957) 580379
Tokyo, 184 p.
The results of marine meteorological and oceanographical observations No. 19

Tabulated physical-chemical and biological data, Jan.-June, 1956, in N. Pacific.

FAO:tl M

Japan. Meteorological Agency (1957) 580380
Tokyo, 191 p.
The results of marine meteorological and oceanographical observations No. 20

Tabulated physical-chemical and biological data, July - December, 1956, in N. Pacific.

FAO:tl M

Jitts, H.R. (1957) 580381
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (8):12 p.
The ^{14}C method for measuring CO_2 uptake in marine productivity studies

Description of the equipment and method, and discussion on the significance of CO_2 uptake measurements by the C^{14} method, made during the EQUAPAC project.

FAO:tl M

Carpenter, J.H. (1957) 580382
Tech.Rep.Chesapeake Bay Inst., (15):80 p
A study of some major cations in natural waters

The distribution of the major cations (sodium, potassium, calcium, and magnesium) in natural waters which range from river water to sea water. Relative compositions were examined on the basis that the relative composition of sea water is constant and that these cations are conservative constituents in this environment.

FAO:tl MF

Gani, J. (1957) 580383
J.R.statist.Soc., 19:181-206
Problems in the probability theory of storage systems

A review of the general theory of dams and inventory, the methods of which are applicable to conservation of renewable resources, problems of optimum size of craft, etc.

FAO:sjh MF

Kendall, D.G. (1957) 580384
J.R.statist.Soc., 19:207-12
Some problems in the theory of dams

Derivation of two results quoted in 580383.

FAO:sjh MF

Fostor, F.G. (1957) 580385
J.R.statist.Soc., 19:212-4
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Wolf, P.O. (1957) 580388
J.R.statist.Soc., 19:217
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Lindley, D.V. (1957) 580386
J.R.statist.Soc., 19:214-6
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Downton, F. (1957) 580389
J.R.statist.Soc., 19:217-8
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Eddison (1957) 580387
J.R.statist.Soc., 19:216-7
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Winston, C.B. (1957) 580390
J.R.statist.Soc., 19:218-9
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Bartlett, (1957) 580391
J.R.statist.Soc., 19:220-1
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Barnett, (1957) 580394
J.R.statist.Soc., 19:223-4
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Smith, W.L. (1957) 580392
J.R.statist.Soc., 19:221-2
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Daniels, H.E. (1957) 580395
J.R.statist.Soc., 19:224-5
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Thatcher, A.R. (1957) 580393
J.R.statist.Soc., 19:222-3
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Solari, M.E. (1957) 580396
J.R.statist.Soc., 19:225-6
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Hammersley, J.M. (1957) 580397
J.R.statist.Soc., 19:226-7
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Kendall, D.G. (1957) 580400
J.R.statist.Soc., 19:229-32
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Prabhu, N.U. (1957) 580398
J.R.statist.Soc., 19:227-8
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Yates, F., M.J.R. Healy & S. Lipton (1957) 580401
J.R.statist.Soc., 19:234-47
Routine analysis of replicated experiments on an electronic computer

Programming of N.R.D.C. Elliott 401 computer for analysis of variance.

FAO:sjh MF

Harling, J.W. (1957) 580399
J.R.statist.Soc., 19:228-9
Discussion on the papers by Dr. Gani and Mr. Kendall

Discussion of 580383 and 580384.

FAO:sjh MF

Tocher, K.D. (1957) 580402
J.R.statist.Soc., 19:247-9
Discussion on the paper by Yates, Healy and Lipton

Discussion of 580401.

FAO:sjh MF

Box, G.E.P. (1957) 580403
J.R.statist.Soc., 19:251-2
Discussion on the paper by Yates, Healy and Lipton

Discussion of 580401.

FAO:sjh MF

Bailey, N.T.J. (1957) 580406
J.R.statist.Soc., 19:326-33
Some further results in the non-equilibrium theory of a simple queue

New results obtained in theory of a simple single-server queue with random arrival and departure, involving both frequency distribution and distribution function of queue length, the derivation of exact and asymptotic expressions for means and variances, and distribution of time taken to reach a pre-assigned state.

FAO:sjh MF

Maurice, R.J. (1957) 580404
J.R.statist.Soc., 19:255-61
A minimax procedure for choosing between two populations using sequential sampling

Method of determining necessary amount of sampling to distinguish between two mean values, by compromising the cost of additional sampling, and the cost of an incorrect choice, assuming the latter is proportional to the true difference between the means.

FAO:sjh MF

Naor, P. (1957) 580407
J.R.statist.Soc., 19:334-41
Normal approximation to machine interference with many repairman

Contribution to operational theory of maintenance of equipment, having application to fishing fleet operations and other problems.

FAO:sjh MF

Whittle, P. (1957) 580405
J.R.statist.Soc., 19:268-81
On the use of the normal approximation in the treatment of stochastic processes

Includes a study of the stochastic version of the logistic model of population growth.

FAO:sjh MF

Gani, J. & N.U. Prabhu (1957) 580408
J.R.statist.Soc., 19:342-51
Stationary distributions of the negative exponential type for the infinite dam

A contribution to the general theory of storage.

FAO:sjh MF

Zenkovitch, V.P. (1958) 580409
Bull.Com.centr.Océanogr., 10:243-53
Emploi des luminophores pour l'étude du mouvement des alluvions sablonneuses

(Use of luminophores to study the movement of sandy sediments)
Description of principles and application of method based on the tagging of grains by coloration of their colloidal hydrophil pellicle.

FAO:sjh M

Anonymous (1958) 580412
Bull.Com.centr.Océanogr., 10:293-300
Observations hydrobiologiques des bâtiments

(Hydrobiological observations by vessels)
Depths, temperatures and salinities recorded in 1957 by naval and merchant vessels and Atlantic weather ships in the English Channel, off Tunis and Morocco, and on routes Rotterdam to New York, Balboa to Manilla and Singapore to Suez.

FAO:sjh M

Lisitzin, E. (1958) 580410
Bull.Com.centr.Océanogr., 10:254-62
Le niveau moyen de la mer

(The mean sea-level)
A review of its periodic variation at different places.

FAO:sjh M

Briggs, J.C. (1958) 580413
Bull.Fla St.Mus.(biol.Sci.), 2:223-318
A list of Florida fishes and their distribution

Contains general and local distribution of shore, freshwater, euryhaline fishes, and a systematic list providing information about the range, habitat and common names of each species. A comprehensive bibliography is also given.

FAO:hr MF

Lhermitte, P. (1958) 580411
Bull.Com.centr.Océanogr., 10:263-84
Contribution à l'étude de la couche limite des houles monochromatiques

(Contribution to the study of the boundary layer of monochromatic waves)
Mathematical theory of this question and experimental work conducted by the Central Hydraulics Laboratory of France.

FAO:sjh M

O'Gower, A.K. (1958) 580414
Proc.Linn.Soc.N.S.W., 82(385):285-8
The influence of the surface on oviposition by Aedes albopictus (Skuse) and Aedes scutellaris katherinensis Woodhill (Diptera, Culicidae)

Similarity in oviposition behaviour of the two spp. agree with their similar larval ecology.

GLK:hr F

Angot, M., M.S. Doty & M. Oguri (1958) 580415

Mésures de la productivité primaire en eau de mer par la technique du carbone 14

(The measurement of primary productivity of sea water by the method of C_{14})
A practical manual establishing the conditions for use of method.

GLK:hr M

Lindroth, A. (1958) 580418

Svensk FiskTidskr., 67:21-4

Laxodlingsprogrammet för det närmaste decenniet

(The programme of salmon culture for the next decennium)
Notes on the problems of culture of Salmo salar to smolt stage and its probability.

FAO:tl MF

Lindström, T. (1958) 580416

Svensk FiskTidskr., 67:1-4

Dalspärrar och kraftverksmagasin - ett referat och diskussionsinlägg

(On large dams, water reservoirs for hydroelectric power)
Notes on fishery possibilities in artificial water reservoirs and factors affecting their productivity, especially in respect of currents.

FAO:tl F

Lindström, T. (1958) 580419

Svensk FiskTidskr., 67:54-8

Ungdomsstadier av röding i rinnande vatten

(Young stages of char in running waters)
Notes on migrations and life history of char in North Sweden.

FAO:tl F

Arpi, B. (1958) 580417

Svensk FiskTidskr., 67:5-9

Om vätterfiskets regionala fördelning

(Regional distribution of fishing in lake Vättern)
Notes on regional inland fisheries statistics.

FAO:tl F

Western Australia. Fisheries Department (1958) 580420

Monthly Service Bulletin, 7(3):27-38

Notes on staff, movements of vessels, conference of fisheries inspectors; text of Fisheries Act dealing with prosecution of offenders; notes on fisheries developments abroad.

GLK:sjh MF

Anonymous (1958) 580421
New Scient., 3(76):5
Free-for-all on the sea-bed

A comment on the U.N. Meeting on the law of the sea just concluded in Geneva, especially with regard to discussions of exploitation rights on the continental shelf.

FAO:sjh M

Fisher, L.R. (1958) 580422
New Scient., 3(76):24-7
Whales, krill and vitamin A

Review of research on the chain of synthetic activity leading, via Meganyctiphanes norvegica, to the storage of vitamin A in the liver of whales.

FAO:sjh M

Galbraith, I.C.J. (1958) 580423
New Scient., 3(76):37
Bivalve mollusc

Short letter referring to 580285.

FAO:sjh M

East Africa High Commission (1958) 580424
Jinja, Uganda, 45 p.
East African Fisheries Research Organization Annual Report, July, 1956 - December, 1957

Lists staff & publications & gives gen. account of work of the Org. during the period July, 1956 - Dec., 1957. Biology & fisheries for Tilapia; hydrology of L. Victoria; analysis of insects in fish stomachs; exp. fishing in L. Victoria, growth of T. esculenta & Mormyrus kannume foods of young Tilapia spp., Protopterus, Clarias, & Mormyrus. appendices by Newell, Garrod, Fryer, Baker, & Anon.
GLK:sjh F

Newell, B.S. (1958) 580425
Rep.E.Afr.Fish.Res.Org.,1956-57:27-8
Microbiology of lake deposits

Analysis of sample from Pilkington Bay, L. Victoria.

GLK:sjh F

Newell, B.S. (1958) 580426
Rep.E.Afr.Fish.Res.Org., 1956-57:29-31
Additional hydrological data from Lake Victoria

Current measurements, lake levels and temperature and oxygen data.

GLK:sjh F

Newell, B.S. (1958) 580427
Rep.E.Afr.Fish.Res.Org., 1956-57:32-3
Iron bacteria

Effect of bacteria in L. Victoria water in corroding electrode boilers.

GLK:sjh F

Garrod, D.J. (1958) 580428
Rep.E.Afr.Fish.Res.Org., 1956-57:36-40
On the growth of Tilapia esculenta (Graham)

Data from scale readings of samples from different parts of L. Victoria.

GLK:sjh F

Fryer, G. (1958) 580429
Rep.E.Afr.Fish.Res.Org., 1956-57:41
Parasitology - Crustacean parasites

Notes on observations of Argulus, Dolops, Ergasilus, Lamproglena and Lernaea spp. on fishes in L. Victoria.

GLK:sjh F

Baker, J.R. (1958) 580430
Rep.E.Afr.Fish.Res.Org., 1956-57:41-3
Parasitology - Protozoan parasites

Occurrence of trypanosomes, Dactylosoma and a myxosporidian in Tilapia, Protopterus, Mormyrus, Labeo, Haplochromis and other fish spp. from L. Victoria.

GLK:sjh F

Anonymous (1958) 580431
Rep.E.Afr.Fish.Res.Org., 1956-57:44
Protein and vitamins in lake deposits

Results of analysis of bottom sample from Pilkington Bay, L. Victoria.

GLK:sjh F

Anonymous (1958) 580432
Rep.E.Afr.Fish.Res.Org., 1956-57:45
The age of a lungfish

Observed growth in aquarium of a specimen of Protopterus aethiopicus.

GLK:sjh F

Lusyne, P.A. (1958) 580433
Rep. FAO/E.T.A.P., (806):38 p.
Report to the Government of India on the organization and operation of training centres for fishermen

Final report of project carried out under the Expanded Technical Assistance Program of U.N., in August, 1955 at Satpati, Bombay, and study of effectiveness of the training given, made at end of 1957.

GLK:sjh MF

Indo-Pacific Fisheries Council (1958) 580434
FAO Regional Office, Bangkok, Thailand, 36 p.
Current Affairs Bulletin No. 21

Briefly reports activities of I.P.F.C. & of its committees and officers, & important current fisheries developments in both member countries & other parts of the world, as known to date of issue (March, 1958). Lists references and some annotations of recent publications of interest to fisheries workers in the Indo-Pacific region. Contains also feature article by J.P. Tully, which see.

SJH:sjh MF

Tully, J.P. (1958) 580435
Curr.Aff.Bull., Bangkok, (21):1-5
Some trends in marine science

Mentions exploratory fishing, and briefly reviews recent oceanographic research related to fisheries problems.

SJH:sjh M

General Fisheries Council for the Mediterranean (1958) 580436
FAO, Rome, 21 p.
Information Bulletin No. 13

Briefly reports activities of G.F.C.M., of its committees and officers, and of FAO Fisheries Division and of other international organizations. Notes current fisheries developments in the Mediterranean countries. Lists international fisheries meetings 1958-9. Incl. ill. of MV TRITON, a new experimental vessel of the Fisheries Dept. of Malta.

FiB:sjh M

Schneider, M. (1958) 580437
Bibliogr.dtsch.Wetterdienstes, (8):119 p.
Agrarmeteorologische Bibliographie 1956

(Bibliography on agrarian meteorology 1956)

FAO: MF

U.K. Ministry of Agriculture, Fisheries & Food (1958) 580438
Lab.Leafl., Lowestoft, (19):9 p.
The Bear Island cod fishery - Prospects for 1958

Review of British fishery in 1957, and prediction of stock sizes and availability in 1958 from catch analyses and hydrographic observations. Appendix gives extract from "Fish Stock Record for 1957" relating to Distant Waters - Cod, which was at the time unpublished.

SJH:sjh M

Aymes, Y. (1958) 580439
C.R.Acad.Sci., Paris, 246:2528-30
Croissance et bourgeonnement des colonies de Bugula noritina L.

(Growth and budding of colonies of Bugula noritina L.)
Note on experiments showing importance of feeding and various physico-chemical factors on terminal budding.

FAO:sjh M

Anonymous (1958) 580442
Comm.Fish.Rev., 20(1):30
California - Pelagic fish distribution, abundance, and behaviour between Santa Barbara and San Diego studied

HR: M

Thurston, C.E. (1958) 580440
Comm.Fish.Rev., 20(1):1-5
Sodium and potassium in the edible portions of 34 species of fish

Describes method of analysis and tabulates results (% ash, K, and Na) for wide variety of marine and freshwater spp.

HR:sjh MF

Anonymous (1958) 580443
Comm.Fish.Rev., 20(1):32-3
Chesapeake Bay - Survey of resident and migratory fishes of Chesapeake Bay

HR: MF

Anonymous (1958) 580441
Comm.Fish.Rev., 20(1):29-30
California - Inshore area from Santa Cruz to Carmel surveyed for schools of young anchovies and sardines

HR: M

Anonymous (1958) 580444
Comm.Fish.Rev., 20(1):38-9
North Atlantic fisheries exploration and gear research - Exploratory tuna fishing with long-lines in western North Atlantic

HR: M

Anonymous (1958) 580445
Comm.Fish.Rev., 20(1):39
North Atlantic fisheries investigations - Haddock and cod tagged and 0-group haddock collected

HR M

Anonymous (1958) 580446
Comm.Fish.Rev., 20(1):40
North Atlantic fisheries investigations - Red hake samples collected and gear tested in Block Island

HR M

Anonymous (1958) 580447
Comm.Fish.Rev., 20(1):40
North Atlantic fisheries investigations - Yellowtail flounders and industrial species sampled off Nauset Beach

HR: M

Anonymous (1958) 580448
Comm.Fish.Rev., 20(1):40-1
North Atlantic herring research - Driving herring schools with compressed air curtain

HR: M

Anonymous (1958) 580449
Comm.Fish.Rev., 20(1):42
North Pacific exploratory fishery program - Third midwater trawling cruise completed

HR: M

Anonymous (1958) 580450
Comm.Fish.Rev., 20(1):43
Oregon - Fisheries research laboratory established

An Oregon Fish Commission fisheries research laboratory at La Grande, Ore.

HR:sjh M

Anonymous (1958) 580451
Comm.Fish.Rev., 20(1):43-4
Oregon - Review of 1957 salmon fisheries

HR MF

Anonymous (1958) 580452
Comm.Fish.Rev., 20(1):44
Oregon - Salmon counts at Willamette falls

HR: MF

Loosanoff, V.L. (1958) 580453
Comm.Fish.Rev., 20(1):45-7
Oysters - New method for control of enemies with common salt

HR: M

Sanford, F.B. (1958) 580454
Comm.Fish.Rev., 20(1):48-56
Pacific Coast fishing ports - Garibaldi, Ore.

HR: M

Anonymous (1958) 580455
Comm.Fish.Rev., 20(1):57
Pacific oceanic fishery investigations - Returns of tagged skipjack tuna exceed 8 percent

HR: M

Anonymous (1958) 580456
Comm.Fish.Rev., 20(1):57
Salmon - Alaska's Bristol Bay fishery to receive special attention

HR: MF

Anonymous (1958) 580457
Comm.Fish.Rev., 20(1):57-8
South Atlantic exploratory fishery program - Exploratory fishing for rock shrimp off Georgia and South Carolina

HR: M

Anonymous (1958) 580458
Comm.Fish.Rev., 20(1):59-60
Tuna - Biologists probe mysteries of albacore spawning

HR: M

Mc Hugh, J.L. (1958) 580459
Comm.Fish.Rev., 20(1):64-6
Virginia - New fisheries research vessel PATHFINDER

HR: M

Anonymous (1958) 580460
Comm.Fish.Rev., 20(1):69
Interest in developing shrimp fisheries of Latin America increasing

HR: M

Anonymous (1958) 580461
Comm.Fish.Rev., 20(1):69
Japanese fishing surveys off Brazil and Dominican Republic reveal tuna resources

HR: M

Anonymous (1958) 580462
Comm.Fish.Rev., 20(1):78
Canada - Rehabilitation of oyster beds in New Brunswick and Nova Scotia planned

HR: M

Anonymous (1958) 580463
Comm.Fish.Rev., 20(1):88-9
Japan - Tuna fishing in Marquesas area

HR: M

Anonymous (1958) 580464
Comm.Fish.Rev., 20(1):90-2
Mexico - Mexico shrimp industry

HR: M

Anonymous (1958) 580465
Comm.Fish.Rev., 20(1):93
Norway - Gas harpoon tried out on whales

HR: M

Anonymous (1958) 580466
Comm.Fish.Rev., 20(3):13-4
California - Establishing silver salmon run in Sacramento River shows promise

FAO: MF

Anonymous (1958) 580467
Comm.Fish.Rev., 20(3):14-6
California - Oyster industry revived

FAO: M

Anonymous (1958) 580468
Comm.Fish.Rev., 20(3):16-7
Chesapeake Bay - Virginia-Maryland biologists seek young croakers

FAO: M

Anonymous (1958) 580469
Comm.Fish.Rev., 20(3):18-21
Fish and Wildlife Service - Annual report lists accomplishments

FAO: MF

Anonymous (1958) 580470
Comm.Fish.Rev., 20(3):21-2
Great Lakes - Problems of controlling fresh-water fish populations discussed

FAO: F

Anonymous (1958) 580471
Comm.Fish.Rev., 20(3):22-3
Great Lakes fishery investigations - Survey of fish populations in Lake Erie completed for 1957

FAO: F

Anonymous (1958) 580472
Comm.Fish.Rev., 20(3):24
Maryland - Oyster set in 1957 spotty

FAO: M

Anonymous (1958) 580473
Comm.Fish.Rev., 20(3):25
Mollusks - Pink discoloration of oysters and clams studied

FAO: M

Anonymous (1958) 580474
Comm.Fish.Rev., 20(3):25-6
North Atlantic fisheries investigations - Yellowtail founder samples collected

FAO: M

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

FAO: MF

Anonymous (1958) 580476
Comm.Fish.Rev., 20(3):26
Pacific oceanic fishery investigations - Recoveries of tagged skipjack tuna in 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) 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) 580479
Comm.Fish.Rev., 20(3):28-9
South Carolina - Fisheries biological research progress, September-December, 1957

FAO: M

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

FAO: MF

Anonymous (1958) 580481
Comm.Fish.Rev., 20(3):35-6
Virginia - Leased oyster grounds more productive

FAO: M

Anonymous (1958) 580482
Comm.Fish.Rev., 20(3):36
Virginia - Reproductive rate of oyster drills lower in 1957

FAO: M

Anonymous (1958) 580483
Comm.Fish.Rev., 20(3):42-3
Canada - Fisheries research during 1957 reviewed

FAO: MF

Anonymous (1958) 580484
Comm.Fish.Rev., 20(3):43-4
Canada - Two subspecies of Ocean perch found off Newfoundland area

FAO: M

Anonymous (1958) 580485
Comm.Fish.Rev., 20(3):48-9
Japan - New electronic fish-finder successful

FAO: M

Anonymous (1958) 580486
Comm.Fish.Rev., 20(3):54-5
Surinam - Fisheries suffer from unusual climatic conditions

FAO: M

Anonymous (1957) 580487
Busin. Week, December 1957:72-6
Pearls prove a gem for Japan

Pearl industry is described from its beginning about 65 years ago.

:sjh M

Kenya, Ministry of Forest Development (1957) 580488
Nairobi, 18 p.
Report on Kenya fisheries, 1956

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.

:sjh MF

Waldo, E. (1957) 580489
Louisiana Conserv., 9(10):2-5
The Louisiana oyster story

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.

:sjh M

U.S. Government (1957) 580490
Senate Document No. 14, 85th Congress, 1st Session, 429 p.
Land and water resources of the New England-New York region

F

Shaikhmahmud, F. & N.G. Magar (1957) 580491
J.sci.industr.Res., 16A:44-6
Studies in the nutritive value of Bombay prawns - I. Chemical composition of prawns

MF

Boars Bluff Laboratories (1957) 580492
Rep.S.C.Wildl.Res.Dep., July 1956-June 57
Annual report 1956-1957

M

Noble, J.W. (1957) 580493
Saturday Evening Post, 230(24):36-7, 49-50
Giant killers of the California coast

First-hand account of humpback whaling operations in the Monterey-Farallon Grounds off San Francisco.

:sjh M

Temma, T. (1957) 580496
Bull.nat.Inst.agric.Sci., Japan, Ser. H, (21):1-45
Study on the fisheries husbandry management. Ni En

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.

FAO:sjh MF

Anonymous (1957) 580494
Busin.Week, (1474):100-1, 103-4, 106-7
The whalers are sailing again

Describes the old and new techniques of catching and processing whales.

:sjh M

Enomoto, Y. (1957) 580497
Bull.Seikai reg.Fish.Res.Lab., (11):2-9
Studies on plankton in the west coast of Kyushu. I. On the seasonal successions of phytoplankton and zooplankton chiefly in 1954

A study of displacement volume, chlorophyll quantity, copepod number, Noctiluca number, and dominant species.

FAO:hr M

Satyanarayana, T.S.Rao (1957) 580495
Proc.nat.Inst.Sci.India, 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

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.

FAO:sjh M

Kibesaki, O. (1957) 580498
Bull.Seikai reg.Fish.Res.Lab., (11):11-29
Studies on the resources of black croaker (Argyrosomus nibe) in the east China Sea. I. Analytical results of the catch statistics and the biological considerations. Ni En

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.

FAO:hr M

Kibosaki, O. & H. Mako (1957) 580499
Bull.Seikai 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

Yamashita, H. (1957) 580500
Bull.Seikai 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 pf food remains in digestive ducts of Sardina melanosticta, Engraulis japonica, Etrumeus micropus, Trachurus japonicus, Decapterus muroadsi, and Scomber japonicus.

FAO:hr M

Yamashita, H. (1957) 580501
Bull.Seikai 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 kindered species found in the west coast of Kyushu. Ni En

Illustrates relation between the food and shape of intestines of Sardina melanosticta, Engraulis japonicus, Etrumeus micropus, Trachurus japonicus, Decapterus muroadsi and Scomber japonicus.

FAO:hr M

Nonaka, H. & N. Hanabuchi (1957) 580502
Bull.Seikai 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

Nonaka, H. & N. Hanabuchi (1957) 580503
Bull.Seikai 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

Shindo, S. (1957) 580504
Bull.Seikai 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

Asia Kyokai (1957) 580505
Obun Printing Co., Tokyo, 253 p.
Japanese fisheries. Their development and present status

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.

FiB:sjh MF

Davis, W.S. (1957) 580506
Res.Rep.U.S.Fish.Serv., (49):5 p.
Ova production of American shad in Atlantic coast rivers

Fecundity of 5 specimens of Alosa sapidissima from each of 6 rivers. Methods used, statistical evaluation of results and of their reliability for estimating total egg production.

FAO:sjh MF

Cowper, T.R. & R.J. Downie (1957) 580507
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (6):19 p.
A line-fishing survey of the fishes of the south-eastern Australian continental slope

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.

FAO:sjh M

Ritchie, D. (1957) 580508
Amer.J.Bot., 44:870-4
Salinity optima for marine fungi affected by temperature

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 Phoma and Pestalotia.

FAO:tl M

Johnson, T.W., Jr. (1957) 580509
Amer.J.Bot., 44:875-8
Resting spore development in the marine phycomycete Anisolpidium ectocarpii

Description of the development of the spore and influence of some environmental factors on this development.

FAO:tl M

Aasen, O. (1957) 580510
Rapp.Cons.Explor.Mer, 143(1):5
Introduction

Introduction to volume of papers contributed to symposium on Clupea harengus (see Aasen & Jones, Zijlstra, Parrish & Craig, Glover, Craig, Cushing & Burd, Schubert & Gilis).

FAO:sjh M

Aasen, O. & F.R. Jones (1957) 580511
Rapp.Cons.Explor.Mer, 143 (1):6-8
Summary of proceedings

Summary of proceedings of symposium on Clupea harengus (See N° 580510).

FAO:sjh M

Zijlstra, J.J. (1957) 580512
Rapp.Cons.Explor.Mer, 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

Summary and general analysis of the commercial statistics of Clupea harengus.

FAO:sjh M

Parrish, B.B. & R.E. Craig (1957) 580513
Rapp.Cons.Explor.Mer, 143 (1):12-21
Recent changes in the North Sea herring fisheries

Study of catch and effort statistics and size and age compositions of Clupea harengus. Mortality rates and their significance in interpreting history and state of the fishery.

FAO:sjh M

Glover, R.S. (1957) 580514
Rapp.Cons.Explor.Mer, 143(1):22-4
The environment: the evidence of the plankton

Appendix to Parrish & Craig (N° 580513), describing Calanus and Clione catches by plankton indicator, and being a summary of Glover, 1957 (580515).

FAO:sjh M

Glover, R.S. (1957) 580515
Bull.Mar.Ecol., 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

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.

SJH:sjh M

Craig, R.E. (1957) 580516
Rapp.Cons.Explor.Mer, 143 (1):25
Recent hydrographic changes in the north-western North Sea

Appendix to Parrish & Craig (N° 580513) being a short note on interpretation of relevant temperature and salinity observations.

FAO:sjh M

Cushing, D.H. & A.C. Burd (1957) 580517
Rapp.Cons.Explor.Mer, 143(1):26-8
On the herring of the southern North Sea

A summary of paper by same authors (1957) in Fish.Invest.Lond., 20(11).

FAO:sjh M

Gdynia. Morski Instytut Rybacki (1957) 580520
Warszawa
Fishing atlas of the North Sea. Pl En Ru

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.

FAO:tl M

Schubert, K. (1957) 580518
Rapp.Cons.Explor.Mer, 143(1):29-33
The German herring fisheries in the North Sea and the biological conditions of the Bank herring stock

Landings and catch per unit effort of Clupea harengus in 1955, by different types of vessels and earlier years; biological condition of Bank stock (maturity, vertebral no., age-composition, relation to oceanographic factors).

FAO:sjh M

Flössel, O. (1957) 580521
Gewässer u. Abwässer, 15/16:26-36
Unterwasserantriebs-, Transport- und Mehrzweckgerät JONAS

(Underwater propulsion- transport- and multi purpose device JONAS)
Description of an underwater scooter and its possible use.

FAO:tl M

Gilis, Ch. (1957) 580519
Rapp.Cons.Explor.Mer, 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

(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 Clupea harengus catches in different regions & at different seasons; daily catches per unit effort.
FAO:sjh M

Schmidt-Rios, H. (1957) 580522
Gewässer u. Abwässer, 15/16:37-108
Über Veränderungen im Stoffhaushalt von Fliessgewässern: Loisach

(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.

FAO:tl F

Tolbert, N.E. (1957) 580523
Publ.Amer.Ass.Advanc.Sci., (49):97-110
Photosynthesis

Use of radioactive tracers in study of this process, with reference to work on Chlorella.

FiB:sjh F

Omura, H. (1957) 580524
Sci.Rep.Whales Res.Inst.,Tokyo, (12):1-21
Osteological study of the little piked whale from the coast of Japan

Based on an osteological study, Balaenoptera davidsoni and B. acuto-rostrata are considered cospecific and the name of the first a synonym of acuto-rostrata.

FAO:hr M

Nishiwaki, M. (1957) 580525
Sci.Rep.Whales Res.Inst.,Tokyo, (12):23-32
Age characteristics of ear plugs of whales

A comparative study of the use of ear plugs for age determination with other methods practised with recommendation for its use.

FAO:hr M

Nomoto, T. (1957) 580526
Sci.Rep.Whales Res.Inst.,Tokyo, (12):33-89
Foods of baleen whales in the northern Pacific

A summary description of the relation of whales and their food mainly based on samples.

FAO:hr M

Nasu, K. (1957) 580527
Sci.Rep.Whales Res.Inst.,Tokyo, (12):91-101
Oceanographic conditions of the whaling grounds in the waters adjacent to Aleutian Islands and the Bering Sea in summer of 1955

Summarizes the results of oceanographic investigations.

FAO:hr M

Kimura, S. (1957) 580528
Sci.Rep.Whales Res.Inst.,Tokyo, (12):103-25
The twinning in southern fin whales

Considers frequency and growth of twins, differentiation of mono- and dizygotic twins, and twins and their mother's age.

FAO:hr M

Ichihara, T. (1957) 580529
Sci.Rep.Whales Res.Inst.,Tokyo, (12):127-89
An application of linear discriminant function to external measurements of fin whale

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.

FAO:hr M

Abe, T. (1957) 580532
Sci.Rep.Whales Res.Inst.,Tokyo, (12):225-33
Notes on fishes from the stomachs of whales taken in the Antarctic. I. Xenocyttus nemotoi, a new genus and new species of zeomorph fish of the subfamily Oreosominae Goode and Bean, 1895

Describes the genus and species.

FAO:hr M

Nishiwaki, M. (1957) 580530
Sci.Rep.Whales Res.Inst.,Tokyo, (12):193-5
One-eyed monster of fin whale

FAO: M

Collignon, M.J., M. Rossignol & Ch. Roux (1957) 580533
Paris, Office de la Recherche scientifique & technique Outre-Mer, 369p
Mollusques, crustacés, poissons marins des côtes d'A.E.F. en collection au centre d'océanographie de l'Institut d'Etudes centrafricaines de Pointe-Noire

(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,

Ogawa, T. & T. Kamiya (1957) 580531
Sci.Rep.Whales Res.Inst.,Tokyo, (12):197-208
A case of the cachalot with protruded rudimentary hind limbs

FAO: M

580533
(Card 2)
and keys for the determination of the spp.

FiB:hr M

Yamamoto, T. (1958) 580535
Tokyo, 1958
Methods of sampling survey of fish catch

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.

GLK:sjh MF

Institut Français d'Océanic (1958) 580538
Rapp.Croisière Inst.franç.Océanic, (1) 17 p.
ORSOM III - Compte-rendu des croisières du deuxième semestre 1957

(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.

GLK:hr M

Chapman, D.W. (1958) 580536
J.Wildlife Mgmt, 22:123-34
Studies on the life history of Alsea river steelhead

Growth, movements, spawning of Salmo gairdneri g. trapped in this Oregon river, 1951-6.

FAO:sjh MF

Haslett, A.W. (1958) 580539
Sci.News, Harmondsworth, (47):122-3
Research report - Laboratoire dauphinois d'hydraulique

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; breakwater construction.

GLK:sjh MF

Jellison, W.L. & K.C. Milner (1958) 580537
J. Wildlife Mgmt, 22:199-200
Salmonellosis (bacillary dysentery) of fur seals

S. enteriditis isolated from blood and viscera of 5 out of 12 sick pups of Callorhinus ursinus, Pribilof Is., summer 1951, and may be a cause of mortality. Seal lice also infected.

FAO:sjh M

Scheidegger, A.E. (1958) 580540
Springer-Verlag, Berlin, 280 p.
Principles of geodynamics

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.

:sjh M

Union Géodésique & Géophysique Internationale (1958) 580541
Paris, p. 33-64
Chronique de l'U.G.G.I. no. 10

(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.

GLK:tl MF

International Oceanographic Foundation (1958) 580542
Sea Secrets, 2(1)

Answers to various biological and other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.

FiB:sjh M

International Oceanographic Foundation (1958) 580543
Sea Secrets, 2(2)

Answers to various biological and other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.

FiB:sjh M

International Oceanographic Foundation (1958) 580544
Sea Secrets, 2(3)

Answers to various biological and other questions received by the International Oceanographic Foundation; miscellaneous notes on marine life.

FiB:sjh M

Western Australia. Fisheries Department (1958) 580545
Monthly Service Bulletin, 7(4):39-48

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.

GLK:sjh M

Mužinić, R. (1958) 580546
Bilješke, Split, (13):3 p.
Preliminarna opažanja o broju nematoda kod šnjura, Trachurus trachurus L.

(Preliminary observations on the numbers of nematodes in horse mackerel, Trachurus trachurus L.). En
Notes on the intensity of infestation of horse mackerel in the central Adriatic with nematodes (Anisakis sp.).

GLK:tl M

Food & Agriculture Organization of the United Nations (1958) 580547
FAO/58/1/575, (mimeo), 73 p.
Operation of hydraulic reclamation systems

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.

FiB:tjj F

Fryer, G. (1958) 580550
Nature, Lond., 181:1011-2
Occurrence of spermatophores in the genus Dolops (Crustacea:Branchiura)

Announcement of their discovery in Branchiura based on examination of D. ranarum from Africa and D.geayi from South America.

GLK:wad F

Morice, P.B. (1958) 580548
Nature, Lond., 181:944-6
The tidal model at the University of Southampton

Description of the purpose of the model and its construction.

GLK:tl M

Munz, F.W. (1958) 580551
Nature, Lond., 181:1012-3
Retinal pigments of a labrid fish

Describes analysis of Pimelometopon pulchrum of the Pacific and compares them with those from other labrid fishes.

GLK:wad M

Carlisle, D.B. & L.G. Hummerstone (1958) 580549
Nature, Lond., 181:1002-3
Niobium in sea-water

Describes methods of detection.

GLK:wad M

Aboul-Ela, I.A. (1958) 580552
Nature, Lond., 181:1013
Effects of ultra-violet radiation on oysters

Describes experiments on eggs of Crassostrea angulata, the larvae of Ostrea edulis and the adults of both and suggests practical applications.

GLK:wad M

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

Rearing experiments and observations on Odonata in Australia.

GLK:wad F

Krishnaswamy, S. & L.T. Jones (1958) 580554
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

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

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

Koefoed, 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

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

M

Bybelin, O. (1957) 580559
Rep.Swed.Deep-Sea Exped., 2(20):249-346
Deep-Sea bottom fishes

M

Broch, H. (1957) 580560
Rep.Swed.Deep-Sea Exped., 2(21):347-64
Pennatularians (Umbellula)

M

Riedel, W.R. (1957) 580561
Rep.Swed.Deep-Sea Exped., 6(3):61-96
Radiolaria: a preliminary stratigraphy

M

Inland Fisheries Trust Incorporated (1958) 580562
Dublin, 33 p.
Secretary's report

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.

FiB:sjh MF

Tinkle, D.W. (1958) 580563
Tulane Stud.Zool., 6(1):56 p.
The systematics and ecology of the Sternothaerus carinatus complex (Testudinata, Chelydridae)

Contains: taxonomic consideration of species, variation, key to species of Sternothaerus, comparative skull osteology, speciation and phylogeny, patterns of speciation in Gulf coast turtles, comparative ecology, and behaviour of captive Sternothaerus.

FAO:hr F

Williams, G.C. (1957) 580564
Univ.Calif.Publ.Zool., 59:249-84
Homing behaviour of California rocky shore fishes

Observations on local movements of tagged Clinocottus analis and Girella nigricans in Los Angeles Country, and review of homing behaviour in other littoral spp.

FAO:sjh M

U.K. Marine Biological Association (1957) 580565
Lab.Mar.biol.Ass., Citadel Hill, Plymouth, Devon, 457 p.
Plymouth Marine Fauna

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.

FAO:glk M

Geller, B.R. (1957) 580566
Zool.Zh., 36:1441-7
K epizootologii kontratsekoza volzhskoi sterliadi

(Epizootology of contracoecose of sturgeon, Acipenser ruthenus). En
Principal distribution of the parasite in fish body and notes on life history.

FAO:tl MF

Babayan, K.B. (1957) 580567
Zool.Zh., 36:1505-13
Kaspiiskaia kefal'

(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.

FAO:tl MF

Fridliand, I.G. (1957) 580568
Zool.Zh., 36:1514-20
Vliianie povyshennoi mineralizatsii vody na rost i razvitie sazana v proletarskom vodokhranilishche

(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.

FAO:tl MF

Ivasik, V.M. (1957) 580569
Zool.Zh., 36:1571-3
Parazitofauna karpa v zimnii period

(Parasite fauna of carp in winter). En
List of parasites found on carp and notes on the development of some pathogenic parasites in winter.

FAO:tl F

Ushakov, P.V. (1957) 580570
Zool.Zh., 36:1659-72
K faune mnogoshchetinkovykh chervei (polychaeta) Arktiki i Antarktiki

(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.

FAO:tl M

Svetovidov, A.N.(1957) 580571
Zool.Zh., 36:1735-46
O prichinakh razlichiia v roste kaspiiskikh i chornomorsko-azovskikh sel'devykh

(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 Alosa and Clupeonella in the Black and Azov Seas and discussion of the factors influencing their growth rates.

FAO:tl MF

Andriiashev, A.P. (1957) 580572
Zool.Zh., 36:1747-9
Novyi dlia fauny SSSR vid ryb semeistva treskovykh Arctogadus glacialis (Peters) s dreifuiushchei stantsii "Severnyi polius-6"

(A gadoid sp. (Arctogadus glacialis (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.

FAO:tl M

Murina, V.V. (1957) 580573
Zool.Zh., 36:1777-91
Glubokovodnye sipunkulidy roda Phascolion Théel severo-zapadnoi chasti Tikogo okeana, sobrannye ekspeditsiiami na sudne VITIAZ' v 1950-1955 godakh

(Abyssal sipunculids (genus Phascolion Theel) of the north-western part of the Pacific collected by VITJAZ expeditions in 1950-1955). En
Description of the distribution of Phascolion lutens and description of a new species P. pacificum.

FAO:tl M

Fadeev, I.S. (1957) 580574
Zool.Zh., 36:1841-7
O tipe ikrometaniia i plodovitosti nekotorykh promyslovykh kambal Sakhalina

(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 Limanda aspera, Pseudopleuronectes herzenstcini, and Limanda punct. punctatissima.

FAO:tl M

Nikishina, E.F. (1957) 580575
Zool.Zh., 36:1896-7
Kratkie soobshcheniia o prisposoblenii prudovika obyknovennogo k vysykhaniiu vodoema

(On the adaptation of Limnaea stagnalis to the drying up of bodies of water). En
Notes on the survival of Limnaea stagnalis in drying ponds.

FAO:tl F

Mekhanik, F.Ia. (1957) 580576
Zool.Zh., 36:1897-900
K voprosu o golodanii ryb

(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.

FAO:tl F

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 feed 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 Poritrichophora integra as sole food source mortality rate approached normal.

FAO:sjh M

Johnson, T.W., Jr. & S.P. Meyers (1957) 580580
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 vertical 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 ORLGON 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 ommastrephid 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

Motwani, M.P. & B.B. Bose (1957) 580583
Proc.nat.Inst.Sci.India, 23B:8-16
Oxygen requirements of fry of the Indian major carp, Labeo rohita Hamilton

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 O_2 consumption to weight and numbers of fish; table derived for use by industry in arranging transport in sealed containers.

FAO:sjh F

Misra, R.K. (1957) 580584
Proc.nat.Inst.Sci.India, 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

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 Palaemon hendersoni.

FAO:sjh F

Prasad, R.R. & P.R. Sadasivan Tampi (1957) 580585
Proc.nat.Inst.Sci.India, 23B:48-67
On the phyllosoma of Mandapam

Ill. description of various stages of Panulirus ornatus, Thenus orientalis and Scyllarus orientalis. Breeding season deduced from larval abundances; duration of larval life; unsuccessful attempts at aquarium rearing.

FAO:sjh M

Venkararaman, G.S. (1957) 580586
Proc.nat.Inst.Sci.India, 23B:80-8
A contribution to the knowledge of the diatomaceae of Kanya Kumari (Cape Comorin), India - I.

Ill. systematic list of 29 forms (16 genera) in collections made June 1956. Distribution of the spp.

FAO:sjh M

Takesita, I. & S. Kakuda (1957) 580587
J.Fac.Fish.Hiroshima, 1:303-10
Radioactivity in the river water, brackish-water, sea water and the laver at river mouth, derived from radioactive rain water

Study of radioactivity in R. Ashida, Japan, caused by fission products resulting from atomic bomb tests falling in rain and taken up by Porphyra tenera being cultivated at the river mouth.

FAO:sjh MF

Irie, T. (1957) 580588
J.Fac.Fish.Hiroshima, 1:311-7
On the forming season of annual rings (opaques and translucent zones) in the otoliths of several marine teleosts

Seasonal study of Argyrosomus, Lateolabrax and Mylio from Inland Sea of Seto, and Pseudosciaena from East China Sea.

FAO:sjh M

Uda, M., Y. Morita & M. Ishino (1957) 580589
Rec.oceanogr.Wks Jap., 12(2):1-20
Results from the oceanographic observations in the North Pacific (1955-56) with UMITAKA-MARU and SHINYO-MARU

Oceanographic data from NORPAC Expedition (profiles and tabulated data with description and analysis).

FAO:tl M

Shoji, D. (1957) 580590
Rec.oceanogr.Wks Jap., 12(2):21-6
Kuroshio during 1955

Description of current patter and velocities during different seasons of the year.

FAO:tl M

Hayami, S., Y. Hukuo & D. Yoda (1957) 580591
Rec.oceanogr.Wks Jap., 12(2):27-33
On the exchange of the water masses between the Seto Inland Sea and the open seas through the Akashi Straight and the Naruto Straight

Analyses of water exchange, determined from chlorinity change and theoretical discussion of mechanism of mixing of water masses due to the tidal currents.

FAO:tl M

Ichiye, T. (1957) 580592
Rec.oceanogr.Wks Jap., 12(2):34-41
On the relationship between the plankton distribution and hydrographic condition in the adjacent seas of Japan

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.

FAO:tl M

Sasaki, T. & al. (1957) 580593
Rec.oceanogr.Wks Jap., 12(2):42-5
Measurements of the angular distribution of daylight in the sea

Results of measurements of angular distribution of daylight with the underwater observation chamber "Kurashio".

FAO:tl M

Ishibashi, M. & F. Morii (1957) 580594
Rec.oceanogr.Wks Jap., 12(2):46-9
A study on the method of the extraction of potassium from bittern as perchlorate

Study of the conditions for precipitating potassium perchlorate from bittern, extracting potassium by use of perchloric acid or sodium perchlorate as a precipitant.

FAO:tl M

Kumo, T., T. Kuno & T. Tanaka (1957) 580595
Rec.oceanogr.Wks Jap., 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

Experimental results.

FAO:tl M

Kumo, T. & M. Okada (1957) 580596
Rec.oceanogr.Wks Jap., 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

Experimental results.

FAO:tl M

Kumo, T. (1957) 580597
Rec.oceanogr.Wks Jap., 12(2):57
Studies on the direct manufacture of sodium hydroxide from sea water

Short summary progress report.

FAO:tl M

Niino, H. (1957) 580598
Rec.oceanogr.Wks Jap., 12(2):58-62
Sediments on three submarine banks as promising fishery grounds (sediments on the Umitaka, Yonoyama and Sonjyu-sho)

Short description of the bottom configuration, types of sediments found and names of some sessile benthic organisms caught with the snapper.

FAO:tl M

Hatai, K. (1957) 580599
Rec.oceanogr.Wks Jap., 12(2):63-6
Geology and natural resources along the coast and bays of southern Izu Peninsula

Notes on the nature of the coast and sea bottom in shallow water, and on occurrence of economically important benthic animals.

FAO:tl M

Hiyama, Y. & F. Yasuda (1957) 580600
Rec.oceanogr.Wks Jap., 12(2):67-70
The methods of utilization of plankton by fishes

Notes on natural competition for food among the pelagic spp. of fish, and preliminary explanation of the fluctuations in sardine catches.

FAO:tl M

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:tl M

Yamada, Y. (1957) 580602
Rec.oceanogr.Wks Jap., 12(2):73-6
Report on some groups of sea-weeds 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:tl M

Segawa, S. (1957) 580603
Rec.oceanogr.Wks Jap., 12(2):77-8
Report on the sea-weeds, especially corallinae found around the Izu-Miyake and Tosa-Kashiwa Islands

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

FAO:tl M

Miyadi, D. & T. Habe (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:tl M

Miyadi, D. & T. Habe (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:tl M

Abe, 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 Cubiceps gracilis, Cypselurus pinnatibarbatus japonicus, Scomber tapeinocephalus, Trachurus japonicus, Tetragonurus cuvieri and Mupus japonicus in the west Pacific.

FAO:tl M

Hanoda, Y. (1957) 580607
Rec.oceanogr.Wks Jap., 12(2):97-102
Studies on the luminuous organisms found in waters adjacent to the Pacific coasts of Japan

Description of types and reasons of luminosity by Anomalops, Cypridina noctiluca, various luminous marine snails, squids, fish (Paratrachichthys prosthomius and Lestidium nudum).

FAO:tl M

Honjo, K. (1957) 580610
Rec.oceanogr.Wks Jap., 12(2):130-3
Distribution of Euphausiacea in the Kuroshio area, south of Honshu, May 1955

List of spp. occurring, and description of geographical distribution.

FAO:tl M

Nakai, Z. (1957) 580608
Rec.oceanogr.Wks Jap., 12(2):103-19
An outline of biological survey and distribution of wet weight of macro-plankton in the Kuroshio area, south of Honshu, May 1955

Description of the geographical distribution of quantities of plankton (mainly zooplankton).

FAO:tl M

Okutani, T. (1957) 580611
Rec.oceanogr.Wks Jap., 12(2):134-42
Holoplanktonic gastropoda in the Kuroshio area, south of Honshu, May 1955

List of spp. composition and their distribution. Description of juvenile Pterosoma planum.

FAO:tl M

Honjo, K. & al. (1957) 580609
Rec.oceanogr.Wks Jap., 12(2):120-9
Distribution of copepoda in the Kuroshio area, south of Honshu, May, 1955

Includes list of zooplankton spp. occurring in Kuroshio waters.

FAO:tl M

Hattori, S., T. Watanabe & T. Okutani 580612
Rec.oceanogr.Wks Jap., 12(2):143-58
Fish larvae and eggs in the Kuroshio area, south of Honshu, May 1955

List of spp. collected, and notes on their horizontal and vertical distribution.

FAO:tl M

Nakai, Z. & al. (1957) 580613
Rec.oceanogr.Wks Jap., 12(2):159-96
A preliminary report on the biological survey in the Kuroshio area, south of Honshu, June-July 1955

Quantitative distribution of total zooplankton, spp. composition and their quantitative distribution; quantities of different spp. of fish eggs and larvae, and their distribution.

FAO:tl M

Watanabe, N. (1957) 580614
Rec.oceanogr.Wks Jap., 12(2):197-208
A preliminary report on the oceanographic survey in the Kuroshio area, south of Honshu, June-July 1955

Hydrographic data and description of hydrographic conditions.

FAO:tl M

Oren, O.H. (1957) 580615
Bull.Inst.océanogr.Monaco, (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

Investigations on the possible reasons of increased catches of lizard fish (Saurida grandisquamis), and yellow striped mullet (Upeneus molucconsis) by Israeli trawlers in recent years.

FAO:tl M

Lundbak, A. (1957) 580616
Dtsch.hydrogr.Z., 10:176-83
Surge frequencies along the Danish west-coast. Fr De

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.

FAO:tl M

Darbyshire, J. (1957) 580617
Dtsch.hydrogr.Z., 10:184-90
A note on the comparison of proposed wave spectrum formulae. Fr De

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.

FAO:tl M

Krauss, W. (1957) 580618
Dtsch.hydrogr.Z., 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). En Fr

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.

FAO:tl M

Yashouv, A. (1958) 580619
Fish.Bull., Haifa, (15):4-10
(The state of Acanthobrama fishery in Lake Tiberias). Iw En

Changes in the fishery - catches, gears used - 1949 to 1957; environmental factors affecting the stock; relation between gill-net and ring-net catches.

FAO:sjh F

Komarovsky, B. (1958) 580622
Fish.Bull., Haifa, (15):20-5
(Contribution to the knowledge of the plankton of Lake Huleh). Iw En

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.

FAO:sjh F

Nun, M. (1958) 580620
Fish.Bull., Haifa, (15):14-7
(Ancient fishing of the Hebrews from foreign literary sources). Iw

FAO: F

Ben-Tuvia, A. (1958) 580623
Fish.Bull., Haifa, (15):26-8
(A comparison between the fish fauna of the eastern Mediterranean and the Red Sea). Iw En

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.

FAO:sjh M

Ben-Tuvia, A. (1958) 580621
Fish.Bull., Haifa, (15):18-9
(Know your fish). Iw

Illustrations and brief notes on Solea, Sparus, Diplodus, Sphagebranchus, Sparisoma, Dicentrarchus and Monochirus.

FAO:sjh M

Ben-Yami, M. (1958) 580624
Fish.Bull., Haifa, (15):29-31
(Measurements of trawl gear by means of underwater equipment). Iw En

Report of experiments made on R.F.V. HATZVI, January 1958, cooperatively by FAO and Government of Israel, in the E. Mediterranean.

FAO:sjh M

Crew of F/V LAMERCHAW (1958) 580625
Fish.Bull., Haifa, (15):31
(On the performance of the Portuguese otter boards). Iw

FAO: M

Grundy, F. (1958) 580626
WMO Bull., 7:64-7
Cetyl alcohol reduces evaporation from reservoirs

The results of trials made and notes on future possibilities to use cetyl alcohol for reduction of evaporation.

FAO:tl F

Leonard, E.B. (1958) 580627
Spec.Libr., 49(3) March 1958:3 p.
A decimal classification for fisheries

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.

SJH:sjh MF

Miller, A.R. (1958) 580628
Limnol.Oceanogr., 3(1):1-14
The effects of winds on water levels on the New England coast

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.

TL:tl M

Davis, C.C. (1958) 580629
Limnol.Oceanogr., 3(1):15-28
An approach to some problems of secondary production in the western Lake Erie region

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.

TL:tl F

Barnes, H. & M.Barnes (1958) 580630
Limnol.Oceanogr., 3(1):29-32
The rate of development of Balanus balanoides (L.) larvae

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.

TL:tl M

Collier, A. (1958) 580631
Limnol.Oceanogr., 3(1):33-9
Some biochemical aspects of red tides and related oceanographic problems

Discussion of biological factors operative in the genesis of Gymnodinium breve blooms in G. of Mexico.

TL:tl M

Gorham, E. (1958) 580632
Limnol.Oceanogr., 3(1):40-50
The physical limnology of northern Britain: an epitome of the bathymetrical survey of the Scottish freshwater lochs, 1897-1909

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.

TL:tl F

Anderson, G.C. (1958) 580633
Limnol.Oceanogr., 3(1):51-68
Seasonal characteristics of two saline lakes in Washington

Study of relation of physical and chemical conditions to growth and distribution of phytoplankton, consisting mainly of Amphora sp. (spring) and Chaetoceros elmorei (late summer), in Soap L. and L. Lenore in the Columbia R. basin.

TL:tl MF

Kutkuhn, J.H. (1958) 580634
Limnol.Oceanogr., 3(1):69-83
Notes on the precision of numerical and volumetric plankton estimates from small-sample concentrates

An attempt to evaluate the techniques employed in a recent study concerned with measurement of littoral plankton populations.

TL:tl MF

Hepher, B. (1958) 580635
Limnol.Oceanogr., 3(1):84-100
On the dynamics of phosphorus added to fishponds in Israel

Results of experiments for the investigation of the fate of phosphate added to fishponds and the inorganic processes of phosphorus fixation in the pond.

TL:tl F

Rittenberg, S.C., T. Mittwer & D. Ivler (1958) 580636
Limnol.Oceanogr., 3(1):101-8
Coliform bacteria in sediments around three marine sewage outfalls

Results of investigation of the distribution of coliforms in sediments around Californian outfalls into the Pacific Ocean.

TL:tl M

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

Description of the sampler and its operation.

TL:tl 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

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

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

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

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 Fischsperren (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:tl 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:tl F

Nagel, L. (1958) 580644
Dtsch.FischZtg., 5:110-1
Erfahrungen über die Verringerung der Einschleppung 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:tl 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 Bauchwassersucht, das Verhältnis der abgelesenen Fische zu den tatsächlichen Verlusten, Herbstbesatz und Chloronitrin-Injektion (On the course of abdominal dropsy, the relation of counted fish to the real loss, autumn stocking and chloronitrin-injection)

Description of various investigations on carp.

FAO:tl 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 sticklebacks and seals.

FAO:sjh MF

Vladykov, V.D. (1958) 580649
Actualités mar., 2(1):6-12, 33
Deux pêches caractéristiques du fleuve St. Laurent (Two characteristic fish traps of the St. Lawrence river)

Ill. description of complex netting traps used for catching eels (Anguilla rostrata) and herring (Clupea harengus).

FAO:sjh MF

Boulanger, J.M. (1958) 580650
Actualités mar., 2(1):13-8, 28
Le facteur température et les pêcheries du Bas-Saguenay (Temperature and the fisheries of Bas-Saguenay)

Oceanography of Gulf of St. Lawrence, and the cod and capelin stocks.

FAO:sjh M

Bergeron, J. (1958) 580651
Actualités mar., 2(1):19-22,
Pêche expérimentale au poisson rouge (Experimental fishing for redfish)

Results of exploratory trawling for Sebastes marinus in the Lawrence channel around Anticosti.

FAO:sjh M

Borube, Z. (1958) 580652
Actualités mar., 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)

Catches by spp. and regions; quantities value, number of fishermen; number and tonnage distribution of different types of craft, and their catches.

FAO:sjh M

Artüz, I. (1958) 580653
Balik Balikçilik, 6(5):1-9
Torik-Palamut Sarda sarda larin Mevsim ve Senelere Bağli Av Peryotlari - II
(Catching periods of Sarda sarda in different seasons and years - II)

Seasonal catch distribution of large and small size-groups in Turkish waters.

SJH:sjh M

Türgân, G. (1958) 580654
Balik Balikçilik, 6(5):10-2
Lüfer Baliklarinin Vayilis Bölgeleri
(About the distribution areas of the blue fish)

Distribution chart and notes on Temnodon saltator.

SJH:sjh M

Akyüz, E.F. (1958) 580655
Balik Balikçilik, 6(5):13-6
Balik Stoklarinin Muhafazasi ve Balikçilik Teorisi (The preservation of fish stocks and theory of fishery)

Text of a lecture given by the author in Istanbul.

SJH:sjh MF

Anonymous (1958) 580658
Balik Balikçilik, 6(5):27-30
Florida'nin Acayip Bir Mahlûku; Manatee ler (The sea-cows of Florida)

A brief popular note on the biology of the Manatee.

SJH:sjh M

Ünor, S. (1958) 580656
Balik Balikçilik, 6(5):17-20
Çapari, 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.

SJH:sjh M

New Zealand, Marine Department (1958) 580659
Wellington, 9 p.
Experimental trawling in Otago waters, winter, 1957

Report of 2 month survey by R.V. IKATERE; 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; Thyrsitos atun, Callorhynchus milii, Polyprion oxigeneios, Dactylopagrus macropterus).

FiB:sjh M

Anonymous (1958) 580657
Balik Balikçilik, 6(5):23-6
Hiç Akla Gelmedik Bir döviz Kaynaği: Sülükler (A new source of foreign exchange for Turkey: the leeches (Hirudo medicinalis))

An interview on the catch of leeches and the methods of packing them.

SJH:sjh F

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.

FAO:sjh MF

Järvi, T.H. (1958) 580661
Acta zool.fenn., (94):40 p.
Über die Lachserträge im Oulujoki in den Jahren 1870-1948 (On the salmon yield in Oulujoki in the years 1870-1948)

Catch statistics by size and by year classes.

WAD:tl MF

Heslop-Harrison, J. (1958) 580662
Nature, Lond., 181:586
Biogeography - An ecological perspective

Review of book with the same title by P. Dansereau, Ronald Press Company, New York, 1957.

GLK: MF

Hastings, A.B. & H. Dighton Thomas (1958) 580663
Nature, Lond., 181:599
Prof. H.A. Kluge

Obituary, and short biography of this Russian freshwater and marine biologist, with special reference to his work on polyzoa, and the zoology of the Arctic ocean

GLK:sjh MF

Nanda, J.N., K. Achyuthan & N.K. Balachandran (1958) 580664
Nature, Lond., 181:646
Periodicity in sea roughness and origin of microseisms

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.

GLK:tl M

Iyer, H.M., D. Lamboth & B.J. Hinde (1958) 580665
Nature, Lond., 181:646-7
Refraction of microseisms

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.

GLK:tl M

McTaggart, H. Scott (1958) 580666
Nature, Lond., 181:651
Cryptocotyle lingua in British Mink

First report in Britain of this heterophyid trematode whose intermediate stage is in marine snails and fish.

GLK:wad

~~FAO/58/6/4166~~

Food & Agriculture Organization of the United Nations 580667 (1958)
Rep.FAO/ETAP, (721):98 p.
Rapport provisoire au Gouvernement d'Haiti sur les pêches maritimes en 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 of the United Nations 580668 (1958)
Rep.FAO/ETAP, (754):32 p.
Informe al Gobierno de Venezuela sobre la evaluacion 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 Cetengraulis edentulus).

FiB:hr M

Food & Agriculture Organization of the United Nations 580669 (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

FAO/58/6/4166

Food & Agriculture Organization of the United Nations 580670 (1958)
Rep.FAO/ETAP, (781):103 p.
Rapport sur la situation des pêches 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

Wiegel, R.L., C.M. Snyder & J.E. Williams 580671 (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

Urick, R.J., L.C. Pharo & E. Skudrzyk 580672 (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
Soedinenie reki Kubani s Chernom morem (Connection of Kuban rivers in the Black Sea)

FAO: MF

Burkhanov, V.F. (1958) 580674
Priroda, Moskva, 47(1):9-18
Velikii 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 kolebaniiakh 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 moria (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

Sobodenko-Iubkin, M.M. (1958) 580679
Priroda, Moskva, 47(1):117-20
Sovremennaia akvarnal'naia 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

Nasukawa, 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

Hasegawa, 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 sporelings; 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 relationship 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. Veley (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 tetraspore. 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 Hylckama, T.E.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

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) 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); establishment of Marine Microbiological Laboratory of Inst.Mar.Science of Univ. of Texas, at Mustang I., Port Aransas, under direction of C.H. Opponheimer.

TL:sjh 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) 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) 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

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

FAO/58/6/4166

Watson, D.J. (1958) 580697
Nature, Lond., 181:82-4
Biological productivity of Britain

Brief report on Symposium organized by Institute of Biology; reviews Lund's and Le Cren's papers on productivity of freshwaters and on production of fish respectively (580725 & 580726).

GLK:tjj F

Chen, P.S. & F. Baltzer (1958) 580698
Nature, Lond., 181:98-100
Species-specific differences in free amino-acids and peptides in sea-urchin eggs and embryos (pure spp. & hybrids)

Reports new work on chromatograms of Paracentrotus lividus, Arbacia lixula and Sphaerechinus granularis and their hybrids, from Naples, March/April, 1957.

GLK:sjh M

Brodie, J.W. & R.W. Burling (1958) 580699
Nature, Lond., 181:107-8
Age determination of southern Ocean waters

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.

GLK:tl M

Wangersky, P.J. & G.E. Hutchinson (1958) 580700
Nature, Lond., 181:108-9
Manganese deposition and deep water movements in the Caribbean

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.

GLK:tl M

Burdon-Jones, C. & G.H. Charles (1958) 580701
Nature, Lond., 181:129-31
Light reactions of littoral gastropods

Experiments with Littorina littorina using polarized light.

GLK:wad M

Taylor, F.J. (1958) 580702
Nature, Lond., 181:136-7
Effect of plasmolysis on the rate of respiration of a green alga

Summary of experiments with Scenedesmus quadricauda.

GLK:wad F

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

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

Sorokin, 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 reinhardti and high temperature strain of Chlorella pyrenoidosa).

FAO:tl F

Stěpánek, M. (1958) 580709
Biológia, 13:295-8
Stanovení meze viditelnosti pro jednotlivé části světelného spektra ve vodě (Determination of transparency of water in different spectral ranges). Ru De

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 P^{32} to spp. of Daphnia, Planorbis, Bithynia, Limnaea, Coretus, Bulinus, Tendipes and Procladius larvae, and enchytraeid worms.

:sjh F

Larsen, K. (1958) 580710
Dansk FiskTid., 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 operularis, with general biological reference also to P. maximus.

GLK:sjh M

Florida State University. The Oceanographic Institute (1958) 580714
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 M

Watanabe, N. 580614
Watanabe, T. 580612
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Watson, J.A.L. 580553
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Wiegel, R.L., C.M. Snyder & J.E. Williams 580671
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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):T1-4; G1-2 Rome, July 1958
1(4):1-78; A1-5
(containing: taxonomic and geographic indexes to 580223-580714
references and author index to, 580715-581182

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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Anonymous (1957) 580715
Trans.Amer.geophys.Un., 38:279-83
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

Thomas, J.B., A.A.J. van der Loun & J. Koning (1957) 580718
Biochim.biophys.Acta, 23(2):443-4
Photosynthetic activity of fragments of Spirogyra chloroplasts - II.Measurements with the mass spectrometer

A note on laboratory experiments to measure photosynthetic O_2 liberation, CO_2 consumption and assimilatory quotient for spp. from 2 different habitats.

FAO:sjh F

American Geophysical Union (1957) 580716
Trans.Amer.geophys.Un., 38(2):sep.pag. 1-87
Directory

Alphabetical and geographically arranged list of members & their addresses, to 10/2/57, replacing that given in 35(6), 1957, for period up to 10/11/54.

TL:sjh MF

Schoffeniels, E. & D. Nachmansohn (1957) 580719
Biochim.biophys.Acta, 26(1):1-15
An isolated single electroplax preparation - I. New data on the effect of acetylcholine and related compounds

Experimental study of physiological chemistry of the electric organ of Electrophorus electricus.

FAO:sjh F

Tibbs, J. (1957) 580717
Biochim.biophys.Acta, 23(2):275-88
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 Paramecium cilia.

FAO:sjh F

Lenhoff, H.M., B.S. Kline & R. Hurley (1957) 580720
Biochim.biophys.Acta, 26(1):204-5
A hydroxyproline-rich, intracellular, collagen-like protein of Hydra nematocysts

Biochemical analysis of H. littoralis.

FAO:sjh F

Davis, P.S. (1957) 580721
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (7):9 p.
A method for the determination of chlorophyll in sea-water

Description of sampling and analytical methods for the spectrophotometric determination of chlorophyll a in sea water. Description of a new water sampler and continuous centrifuge. Discussion of the inadequancies of the methods of chlorophyll analysis.

FAO:tl M

Chau, Y.K. (1957) 580724
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (13):
The coastal circulation of New South Wales from drift card results 1953-56

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.

FAO:tl M

Hamon, B.V. (1957) 580722
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (9):
16 p.
Mean sea level variation on the coast of New South Wales

The effects of atmospheric pressure, wind, currents, and water density on sea level at Sydney have been examined.

FAO:tl M

Lund, S. (1958) 580725
Ms
/Exact title unknown/

Paper on productivity of freshwaters submitted to the Symposium organized by the Institute of Biology.

:sjh F

Australia.Division of Fisheries & Oceanography (1957) 580723
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (12):
F.R.V. DERWENT HUNTER - Scientific report of cruise 6/56, December 29, 1956 to February 11, 1957

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.

FAO:tl M

Le Cren, E.D. (1958) 580726
Ms
/Exact title unknown/

Paper on production of fish submitted to the Symposium organized by the Institute of Biology.

:sjh F

Prus-Chacinski, T.M. (1958) 580727
New Scient., 4(79):16-8
Why do rivers meander?

Review of this aspect of hydrology and river engineering, with comment on recent Russian work on the subject.

FAO:sjh MF

Ivanoff, A. (1958) 580728
C.R.Acad.Sci., 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)

Description of the apparatus, and some results obtained in the Mediterranean.

FAO:sjh M

Magne, M.F. (1958) 580729
C.R.Acad.Sci., Paris, 246:2641-3
Les réserves lipidiques des Rhodophycées (Lipid reserves in Rhodophyces)

A short review on accumulations in reproductive parts in various spp.; form of storage.

FAO:sjh M

Brémond, M.J.-C. (1958) 580730
C.R.Acad.Sci., Paris, 246:2674-7
Contribution à l'étude du peuplement de la zone intercotidale par les Cirripèdes du genre Chthalmus (Contribution to the study of the occupation of the intertidal zone by cirripedes of the genus Chthalmus)

Reports observations made in the Mediterranean (Banyuls-sur Mer) on the analogy between relative population densities of 2 closely related spp., C. stellatus and C. depressus, and the distribution of vertical velocity components of swell which periodically submerges the littoral rock.
FAO:sjh M

Committee for the Protection of N.Pacific Fisheries (1958) 580731
Seattle, Washington, 22 p.
Japan's high seas salmon fishing - What are the plain facts?

Short popular review of history of Oncorhynchus fishery; catches; treaty obligations; research carried out; future action recommended for conservation of these stocks.

FiB:sjh MF

Carter, N.M. & W.E. Ricker (1958) 580732
Circ.biol.Sta.Nanaimo, (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

Addresses of research stations in Canada; titles of series; titles in each series; author, species and subject indexes.

FiB:sjh MF

Fleming, A.M. & M.E.Prouse (1957) 580733
Circ.biol.Sta.St.John, (4):25 p.
I. Summary report of groundfish investigations for 1956 - II. Groundfish landings in Newfoundland, 1956

M

Martin, W.R. & G.J.W. Sullivan (1957) 580734
Circ.Atlant.biol.Sta.statist.Ser., (7): 9 p.
1953 landings of Atlantic groundfish in Canada (excluding Newfoundland)

M

Martin, W.R. & G.J.W. Sullivan (1957) 580735
Circ.Atlant.biol.Sta.statist.Ser., (8): 9 p.
1954 landings of Atlantic groundfish in Canada (excluding Newfoundland)

M

Martin, W.R. & G.J.W. Sullivan (1957) 580736
Circ.Atlant.biol.Sta.statist.Ser., (9): 1955 landings of Atlantic groundfish in Canada (excluding Newfoundland)

M

Kelcher, J.J. (1957) 580737
Circ.biol.Sta.Ont., (1):2 p.
The researcher

F

Taylor, F.H.C. (1957) 580738
Circ.biol.Sta.Nanaimo, (45):6 p.
Prospects for the 1957-58 herring fishing season

M

Outram, D.N. (1957) 580739
Circ.biol.Sta.Nanaimo, (46):12 p.
Extent of herring spawning in British Columbia in 1957

Third on an annual series dealing with spawning success of Clupea pallasi stock. Map; method of spawn census & tabulated results with discussion.

FAO:sjh M

Ahlstrom, E.H. (1957) 580742
Spec.sci.Rep.U.S.Fish Wildl.Serv., (208): 44-73.
A review of recent studies of Pacific fish subpopulations

Contribution to symposium on this subject (581145) examines results of all techniques applied to Clupea pallasi, Neothunnus macropterus, Germo alalunga, Pneumatophorus diego, Engraulis mordax, E. australis, Cetengraulis mysticetus, Stolephorus purpureus.

FAO:sjh M

Adams, R.D. (1957) 580740
Nature, Lond., 180:778-80
Exploration of the deep ocean floor

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.

GLK:tl M

Ahrens, E. (1957) 580743
Int.hydr.Rev., 34(2):77-86
Emploi du sondage horizontal pour la localisation des épaves (Use of horizontal sounding for the location of wrecks)

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.

FAO:glk M

Agcitos de Castellanos, Z.J. (1957) 580741
Buenos Aires, 12 p.
Los mitilidos Argentinos (Mytilids of Argentina)

M

Aksiray, F. (1957) 580744
Balik Balikçilik, 5(5):9-14
(Artificial fertilization of trout in the Lake Abant). Tü

Details on trout breeding by artificial fertilization.

SJH:sjh F

Neumann, G. & W.J. Pierson, Jr. (1957) 580745
Dtsch.hydrogr.Z., 10:73-92
A detailed comparison of theoretical wave spectra and wave forecasting methods. Fr Do

Theoretical wave spectra are compared with observed spectrum. Observations of waves for one intense storm are compared with forecasts made by various methods.

FAO:tl M

Stocks, Th. (1957) 580748
Dtsch.hydrogr.Z., 10:112
On the Norwegian continental terrace, primarily outside Møre-Romsdal: its geomorphology and sediments. De

Review of original article by Holtedahl, H., 1955, Årb.Univ.Bergen Naturvitensk., (14).

FAO: M

Waldon, H. & J. Piest (1957) 580746
Dtsch.hydrogr.Z., 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

Discussion of the inaccurancies and errors in several publications concerned with wave spectra.

FAO:tl M

Fuglister, F.C. (1957) 580749
Woods Hole Oceanographic Instn, Reference No. 57-54, 129 p.
Oceanographic data from CRAWFORD cruise ten obtained for the International Geophysical Year of 1957-58

Tabulated and graphical (sections) hydrographic data, reproduction of slides and data on chlorophyll, and C^{14} measurements.

TL:tl M

Kalle, K. (1957) 580747
Dtsch.hydrogr.Z., 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

Description of the areometer, its use and accuracy.

FAO:tl MF

Bogorov, B.G. (1957) 580750
Année biol., 33:299-315
Unification of plankton research

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.

:sjh M

Chanco, B. & B. Strehler (1957) 580751
Nature, Lond., 180:749-50
Effects of oxygen upon light absorption by green algae

F

Ishimatsu, K. (1957) 580754
Kagaku to Kôgyô, 31:316-27
Chemistry of seaweeds. I. Chlorophyceae and rhodophyceae

M

Levring, T. (1957) 580752
Année biol., 33:57-65
Growth and reproduction in marine algae in different regions

M

Goodwin, T.W. (1957) 580755
J.gen.Microbiol., 17:467-73
The nature and distribution of carotenoids in some bluegreen algae

F

Eppley, R.W. (1957) 580753
Univ.Microfilms Publ., (23194):139 p.
Sodium and potassium regulation by a marine red alga, Porphyra perforata

M

Siou, G. (1957) 580756
C.R.Soc.Biol., Paris, 151:464-7
Seasonal variation in cholinesterase activity of striated muscle of the tench

F

Lallier, R. (1957) 580757
C.R.Soc.Biol., Paris, 151:471-4
Perchlorate and embryonal development of echinoderms

M

Hardisty, M.W. (1957) 580758
J.exp.Biol., 34:237-52
Osmotic conditions during the embryonic and early larval life of the brook lamprey (Lampetra planeri)

F

Sugino, Y. & al. (1957) 580759
Biochim.biophys.Acta, 26:453-4
Deoxyribosidic compounds of sea-urchin eggs

Chemical analysis of eggs of Hemicentrotus pulcherrimus.

FAO:sjh M

Rosenthal, H.L. (1957) 580760
Science, 126:699-700
Uptake of calcium-45 and strontium-90 from water by fresh-water fishes

Comparative experimental study of Lebistes, Danio & Tanichthys, with comments on reports in literature regarding other spp., including marine.

FAO:sjh MF

Burger, J.W. (1957) 580761
Biol.Bull.Woods Hole, 113:207-23
The general form of excretion in the lobster, Homarus

Method for securing repeated samples of urine from Homarus americanus; 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.

FAO:tl M

Dómousy, N. (1957) 580762
Biol.Bull.Woods Hole, 113:245-53
Respiratory metabolism of the fiddler crab Uca pugilator from two different latitudinal populations

Comparisons at a given temperature of the metabolism of Uca pugilator and Uca pugnax, measured as oxygen uptake, and observations of their activity in and resistance to cold.

FAO:tl M

Yamamoto, G. (1957) 580763
Sci.Rep.Tohoku Univ., 23:73-82
Tolerance of scallop spats to suspended silt, low oxygen tension, high and low salinities, and sudden temperature changes

M

Maggio, R. & A. Naselli (1957) 580766
Pubbl.Staz.zool.Napoli, 30(1):101-8
The action of sea-urchin sperm on a lipoprotein

M

Barnes, H. (1957) 580764
Année biol., 33:67-85
The spring diatom increase and the spawning of the common barnacle Balanus balanoides

M

Messina, L. (1957) 580767
Pubbl.Staz.zool.Napoli, 30(1):127-31
The chemical nature of the perivisceral fluid of the sea-urchin

M

Kinne, O. (1957) 580765
Année biol., 33:87-92
Comparative biology of marine and brackish water animals

MF

Ham, R.G. (1957) 580768
Univ.Microfilms Publ., (23037):124 p.
Biochemical study of regeneration in hydra

F

Gourin, J.W. & H.G. Jeffery (1957) 580769
Arkans.Univ.Eng.exp.Sta.Bull., (25):79 p.
Chemical quality of surface waters of Arkansas, 1945-55. A summary

F

Loeblich, A.R. & al. (1957) 580772
Bull.U.S.nat.Mus., (215):323 p.
Studies in foraminifera

Contains numerous articles on benthic and planktonic foraminifera; taxonomic descriptions, and plates for identification.

FAO:tl M

Lebedeva, M.N. (1957) 580770
C.R.Acad.Sci.U.R.S.S., 115:186-9
Kolichestvennoe raspredelenie i biomassa mikroorganizmov v kislorodnoi zone Chernogo moria (Quantitative distribution and the biomass of microorganisms in the oxygen zone of the Black Sea)

Amount & distribution of plankton in the N.E. part of the Black Sea, determined by the method of filtering through membranous ultrafilters.

FAO:go M

Rosenberg, A. (Comp.) (1957) 580773
U.S.Library of Congress, Washington, 513 p.
Russian abbreviations - A selective list

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.

FAO:sjh MF

Pera, F. (1957) 580771
Latv.PSR Zinat.Akad.Vestis, (7):93-106
The conditions for the fixation of free nitrogen in the lakes of the Latvian S.S.R. II. The fixation conditions for free nitrogen in the bottom deposits

F

Kott, P. (1957) 580774
Rep.Div.Fish.Oceanogr.C.S.I.R.O., (14): 33 p.
Zooplankton of east Australian waters, 1945-54

List of spp., local occurrence, seasonal distribution and annual variations in zooplankton.

FAO:tl M

Walden, H. & H.G. Farmer (1957) 580775
Dtsch.hydrogr.Z., 10:121-34
Auswertung von Seegangsregistrierungen 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

Analysis of wave records by 2 methods & comparison of the measured spectrum with the spectrum hindcast by use of various existing formulae.

FAO:tl M

Rodewald, M. (1957) 580778
Dtsch.hydrogr.Z., 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

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

580775
(Card 2)

Rodewald, M. (1957) 580779
Dtsch.hydrogr.Z., 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

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.

FAO:tl M

Neumann, G. & W.J. Pierson, Jr. (1957) 580777
Dtsch.hydrogr.Z., 10:134-46
A detailed comparison of theoretical wave spectra and wave forecasting methods

Continuation of 580745.

FAO:tl M

De Graaf, Fr. (1957) 580780
Hydrobiologia, 9(2-3):210-317
The microflora and fauna of a quaking bog in the nature reserve 'Het Hol' near Kortenhoef in the Netherlands

Ecology of three zones with qualitative and quantitative differences in the microbiocoenoses of the different stages of succession.

FAO:tjj F

Iselin, C.O'D. (1957) 580781
Oceanus, 5(3-4):3-11
Synoptic studies in oceanography

Preliminary results of the oceanographic cruises of Woods Hole vessels during IGY.

FAO:tl M

Deacon, G.E.R. (1957) 580782
Oceanus, 5(3-4):13-6
The pinger

Preliminary results of the study of deep water currents in N. Atlantic by the use of a neutrally buoyant float.

FAO:tl M

W.E.S. (1957) 580783
Oceanus, 5(3-4):17
A breaching humpback

Note on an unusual photograph of a humpback whale jumping.

FAO:tl M

Veronis, G. (1957) 580784
Oceanus, 5(3-4):19-25
Thermal circulation

Short review of ocean circulation theories and notes on unsolved problems of circulation and their principal causes.

FAO:tl M

Revelle, R. (1957) 580785
Oceanus, 5(3-4):26-36
Sun, sea and air

Popular review of heat exchange between sea and atmosphere, and long-term temperature changes on the earth.

FAO:tl M

Anonymous (1957) 580786
Oceanus, 5(3-4):37-9
The Woods Hole Oceanographic Institution in the International Geophysical Year

Review of the oceanographic projects of the institute during IGY.

FAO:tl M

Pakistan, Central Fisheries Department (1957) 580787
Karachi, 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

Brief notes on governmental activities in administration, development and research.

GLK:glk

Soeriaatmadja, Rd.E. (1957) 580790
Mar.Res., Indonesia, (3):41-55
The coastal current south of Java

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.

FAO:tl M

Bruun, A.F. & A. Kiilerich (1957) 580788
Mar.Res., Indonesia, (3):1-6
Bathymetrical features of the Bali-Lombok Strait

Discussion of the bathymetric features of the strait in connection with past changes of sea level.

FAO:tl M

Anonymous (1957) 580791
Mar.Res., Indonesia, (3):57-69
Oceanographic station list 1957

Tabulated oceanographic data obtained by SAMUDERA in 1957, south of Java, in the Flores Sea, Timor Sea and Banda Sea.

FAO:tl M

Wyrtki, K. (1957) 580789
Mar.Res., Indonesia, (3):7-40
Precipitation, evaporation and energy exchange at the surface of the south-east Asian waters

Computation of annual heat budget for 15 locations in southeast Asian waters. Basic data for computation are given in tables.

FAO:tl M

Kort, V.G. (1957) 580792
Bull.Acad.Sci.U.R.S.S.(Géogr.), (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)

Review of the oceanographic work done by Russian expedition and notes on vessels.

FAO:tl M

Løversen, R. (1957) 580793
Fiskeridir.Småskr., (4):18 p.
Forsøk med dyrking av blåskjell
(Trial cultivation of edible mussels)

Investigation of the possibilities of culture of Mytilus edulis in Norway and growth of the mussel in various localities along the coast.

FAO:tl M

Robinson, M.K. (1957) 580794
Bull.Scripps Instn Oceanogr., 7(1):98 p.
Sea temperature in the Gulf of Alaska and in the northeast Pacific Ocean, 1941-1952

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.

FAO:tl M

Bumpus, D.F. (1957) 580795
Spec.sci.Rep.U.S.Fish Wildl.Serv., (233):
132 p.
Oceanographic observations, 1956, east coast of the United States

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.

FAO:tl M

Western Australia. Fisheries Department (1958) 580796
Monthly Service Bulletin, 7(2):11-26

Records of occurrence and suggestion for long-lining fishing at depth.

FiB:hr

Miles, C. (1958) 580797
Cart.Amicos, F.A.O., 1(2):42 p.
Carta a los amigos (Letter to friends)

Gives miscellaneous information on recent fishery developments and trends in the Latin American countries.

FiB:hr MF

Spence, W.G. (1958) 580798
Miss.Game Fish, 21(9):9-10
Mass fish kills

A popular article explaining why mass mortalities occur in natural waters and artificial ponds.

FAO:wad F

Hamilton, R.A. (1958) 580799
Nature, Lond., 181:1030-2
The British North Greenland expedition, 1952-54 - Scientific results

Includes note on Salvelinus alpinus collected from Britannia Sø, which exhibit marked stunting.

GLK:sjh F

Grosch, D.S. (1958) 580802
Nature, Lond., 181:1078
Feulgen-positive cytoplasm of Molgula eggs

Contents as per title.

GLK: M

Anonymous (1958) 580800
Nature, Lond., 181:1032-7
Colonial research, 1956-57

Includes summary of the Colonial Office Annual Report on Fisheries Research, 1956-57.

GLK:sjh MF

Crisp, D.J. & B.S. Patel (1958) 580803
Nature, Lond., 181:1078-9
Relation between breeding and ecdysis in cirripedes

Observations on moulting in Balanus balanoides (L.), Balanus balanus (L.) (= B. porcatus da Costa), Balanus crenatus Brugière, Balanus perforatus Brugière, Elminius modestus Darwin and Chthamalus stellatus Poli, and some theories on its function.

GLK:wad M

Mohsen, T. (1958) 580801
Nature, Lond., 181:1074
Masculinizing action of pregneninolone on female gonads in the Cyprinodont, Lebistes reticulatus R.

GLK: F

Kirkegaard, J.B. (1958) 580804
Nature, Lond., 181:1086-7
Records of the group Ponogophora in the Skagerrak

Another record of Siboglinum ekmani found in 1957.

GLK:wad M

Atkins, D. (1958) 580805
Nature, Lond., 181:1087
British pea-crabs (Pinnotheres)

Various observations on the biology of P. pisum and P. pinnotheres from the British Isles.

GLK:wad M

Grainger, J.N.R. (1957) 580806
Proc.R.Irish Acad., 58B:305-19
Preliminary observations on the diurnal migration of the crustacea in the plankton of Gouganebarra Lake

F

Inter-American Tropical Tuna Commission (1957) 580807
La Jolla, 112 p.
Annual Report for the year 1956

A report on the activities and scientific investigations conducted by the Commission.

HR:hr MF

Klawe, W.L. & L.M. Dickie (1957) 580808
Bull.Fish.Res.Bd Can., (115):37 p.
Biology of the bloodworm Glycera dibranchiata Ehlers, and its relation to the bloodworm fishery of the Maritime Provinces

Methods of investigations, ecological observations, life history and the commercial fishery.

GLK:tl M

Sverdrup, H.U. (1957) 580809
Skr.norsk Polarinst., (111):11 p.
The stress of the wind on the ice of the Polar Sea

M

Liestøl, O. (1957) 580810
Skr.norsk Polarinst., (81):29 p.
Glacier damned lakes in Norway

F

Raven, Ch.P. (1958) 580811
287 p.
Morphogenesis: the analysis of molluscan development

Reference book centred on causal analysis of morphogenesis, with emphasis on cytological and cytochemical aspects. Full bibliography.

FAO:sjh MF

Schmidt-Nielsen, K. (1958) 580812
Nature, Lond., 181:1217-8
Nasal salt secretion in the Humboldt penguin

Osmoregulatory mechanism in Spheniscus humboldti, and also Phalacrocorax auritus, and its relation to alternative diets of fish or invertebrates.

GLK:sjh M

Parry, G. (1958) 580813
Nature, Lond., 181:1218-9
Size and osmoregulation in salmonid fishes

Describes experiments with Salmo salar, S. trutta and S. gairdneri 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.

GLK:wad MF

Larsen, B. & A. Haug (1958) 580814
Nature, Lond., 181:1224
Chemical composition of the brown alga Ascophyllum nodosum (L.) Le Jol

Presence of reducing compounds in Ascophyllum nodosum.

GLK:sjh M

Haug, A. & B. Larsen (1958) 580815
Nature, Lond., 181:1224-5
Influence of habitat on the chemical composition of Ascophyllum nodosum

Comparisons of specimens from various Norwegian Fjords (Trondheim, Oslo, Follafjord).

GLK:sjh M

Allen, K.R. & B.T. Cunningham (1957) 580816
Fish.Bull., Wellington, N.Z., (12):153 p.
New Zealand angling, 1947-1952. Results of the diary scheme

Collection & analysis of data; condition of stocks; angling effort & catches, effects of regulations for catch, size of fish & fishing method.

FAO:sjh F

Fukuhara, F.M. & G.K. Tanonaka (1958) 580817
Comm.Fish.Rev., 20(4):1-16
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) 580818
Comm.Fish.Rev., 20(4):22-3
California - Spawning salmon at record low in 1957

FAO: MF

Anonymous (1958) 580819
Comm.Fish.Rev., 20(4):23-4
California - Three types of shrimp fishing nets tested

FAO: M

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

FAO: MF

Anonymous (1958) 580821
Comm.Fish.Rev., 20(4):26
Columbia River - Silver salmon spawning counts highest since 1951

FAO: MF

Anonymous (1958) 580822
Comm.Fish.Rev., 20(4):27
Gulf exploratory fishery program - Experimental red snapper trawling trip off Texas completed

FAO: M

Anonymous (1958) 580823
Comm.Fish.Rev., 20(4):28
North Atlantic fisheries investigations - Contract for new fishery biological laboratory at Woods Hole awarded

FAO: M

Anonymous (1958) 580824
Comm.Fish.Rev., 20(4):29
North Atlantic fisheries investigations - Multiplane kite otter and high-speed plankton sampler tested

FAO: M

Anonymous (1958) 580825
Comm.Fish.Rev., 20(4):29-30
North Atlantic fisheries investigations - Survey of herring spawning and larval drift interrupted

FAO: M

Anonymous (1958) 580826
Comm.Fish.Rev., 20(4):30
North Pacific fisheries investigations - Vessel chartered for Bering sea king crab studies

FAO: M

Anonymous (1958) 580827
Comm.Fish.Rev., 20(4):30-1
Oregon - Nehalem river salmon migration project completed

FAO: MF

Anonymous (1958) 580828
Comm.Fish.Rev., 20(4):31
Oysters - Raft culture of oysters shows promise

FAO: M

Anonymous (1958) 580829
Comm.Fish.Rev., 20(4):33-4
Pacific oceanic fishery investigations - Eastern North Pacific sea-surface temperature charts released

FAO: M

Anonymous (1958) 580830
Comm.Fish.Rev., 20(4):34-5
Pacific oceanic fishery investigations - Skipjack tuna and live-bait sardines found abundant in Marquesas

FAO: M

Anonymous (1958) 580831
Comm.Fish.Rev., 20(4):35
Pacific oceanic fishery investigations - Tagged albacore tuna recovered in Western Pacific

FAO: M

Anonymous (1958) 580832
Comm.Fish.Rev., 20(4):35-6
Pacific salmon investigations - Two vessels chartered to study origin of mid-ocean salmon

FAO: MF

Anonymous (1958) 580833
Comm.Fish.Rev., 20(4):45-6
Virginia - Fisheries may be affected by this winter's cold weather

FAO: M

Anonymous (1958) 580834
Comm.Fish.Rev., 20(4):52-3
International - Japan-Russia fisheries negotiations for 1958

FAO MF

Anonymous (1958) 580835
Comm.Fish.Rev., 20(4):56-7
Denmark - Launce (sand eel) fishery

FAO: M

Baker, R.C. (1957) 580838
Conserv. in Action, (12):23 p.
Fur seals of the Pribilof Islands

M

Baptist, J.P., O.R.Smith & J.W. Ropes (1957) 580836
Spec.sci.Rep.U.S.Fish Wildl.Serv., (220): 19 p.
Migrations of the horseshoe crab, Limulus polyphemus, in Plum Island Sound, Mass.

Methods, tabulation and discussion of results.

GLK:glk M

Silva, A.D. (1957) 580839
Publ.Gabin.Estud.Pescas, (35):87 p.
A pesca do bacalhau - Campana de 1955-1956 (The cod fishery - 1955-56 season)

M

Hile, R. (1957) 580837
Spec.sci.Rep.U.S.Fish Wildl.Serv., (226): 50 p.
U.S. Federal Fishery Research on the Great Lakes through 1956

Review of program & results since 1927; sea lamprey studies & control; fishery programs analysed for each lake; statistics, publications, staff roster, patents.

FAO:sjh F

Sindermann, C.J. (1957) 580840
Res.Bull., Maine, (27):30 p.
Diseases of fishes of the western north Atlantic. V. Parasites as indicators of herring movements

M

Gerhardsen, G.M. (Ed.) (1958) 580841
F.A.O., 348 p.
Purposes and methods in fishery statistics - Report of the 1st International Meeting on fishery statistics held in Copenhagen, Denmark, 26th-30th May 1952. En Fr

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

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 des pêches (Statistical needs in the fishery industry).

Brief discussion of uses made of statistical data, and schedule of the kinds of data to be collected.

SJH:glk MF

Le Gall, J. (1958) 580843
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 20-3
Statistiques économiques et statistiques biologiques (Economic and biological statistics).

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

SJH:glk MF

Erichsen, P.F. (1958) 580844
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), 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

Needler, A.W.H. (1958) 580845
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 25-30
The biologists' need for statistics

Discussion of the use of statistical information in the development and 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

Martin, W.R. (1958) 580846
In "Purposes and methods in fishery 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

Jensen, A.I.C. (1958) 580847
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 36-9
Fishery statistics necessary for predicting catches and for determining optimum catches

SJH: MF

Beverton, R.J.H. (1958) 580848
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 39-43
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

Parrish, B.B. (1958) 580849
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp.43-7
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

Lacy, J. le G. (1958) 580850
In "Purposes and methods in fishery statistics", by Gerhardsen, 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 Holerith machines, and publications.

SJH:glk MF

Strubberg, A.C. (1958) 580851
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 81-94
The reorganization of Denmark's fishery statistics

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

Rome, Central Institute of Statistics (1958) 580852
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 94-8
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

Cusmai, R. & G. Bazzuoli (1958) 580853
In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 99-103
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

Zotterberg, O. (1958) 580854
In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 103-7
Fishery statistics in Sweden - Existing organization and planned improvements

SJH: MF

Hass, G. (1958) 580855
In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 107-11
Sea fishery statistics in the Federal Republic of Germany

SJH: M

Netherlands (1958) 580856
In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 111-4
Collection of fishery statistics in the Netherlands

Statements of methods and use to which results are put.

SJH:sjh MF

Ongchangco, B. (1958) 580857
In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 114-22
Development of fishery statistics in the management of Philippine fisheries

Present arrangements for collection, compilation and analysis, and plans for improvement.

SJH:sjh MF

Peterson, C.E. (1958) 580858
In "Purposes and methods in fishery statistics", by Gerhardson, G.M. (Ed.), F.A.O., 1958, pp. 122-3
Collection of fishery statistics in the United States

Reports verbal statement.

SJH:sjh MF

Bossetcaux, J.M. (1958) 580859
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 123-30
Le rôle present et le rôle futur des statistiques économiques des pêches maritimes (Present and future role of economic statistics in marine fisheries)

SJH: M

Lacy, J. le G. (Chairman)(1958) 580860
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 130-5
Discussion on the methods of collecting statistics

SJH: MF

Angerman, H. (1958) 580861
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 137-50
The Norwegian register of fishing craft and statistics based on the register

SJH: M

Mesock, G. (1958) 580862
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 150-1
Fishing fleet statistics of the federal Republic of Germany

SJH: M

Girard, M.J. (1958) 580863
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 151-4
Statistics on the fishing fleets

A note on work of FAO in this connection.

SJH:sjh M

Lacy, J. le G. (Chairman)(1958) 580864
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 155-8
From the discussion on fishing craft statistics

SJH: MF

Rosén, N. (1958) 580865
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 215-21
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

Cartwright, G. (1958) 580868
In "Purposes and methods in fishery statistics", by Gerhardsen, 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

Gilis, Ch. (1958) 580866
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 221-30
Essais de coordination des données statistiques destinées à être publiées dans l'annuaire statistique des pêches de la FAO (Attempts at coordination of statistical data intended for publications in the FAO statistical annual for fisheries)

Describes the Belgian contribution.

SJH:sjh M

Erichsen, P.F. (1958) 580869
In "Purposes and methods of fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 237-41
Presentation of fishery statistics with special reference to international comparison - Discussion on statistical presentation

SJH: MF

Gerhardsen, G.M. & L.P.D. Gertenbach (1958) 580867
In "Purposes and methods in fishery statistics", by Gerhardsen, G.M. (Ed.), F.A.O., 1958, pp. 231-6
Notes on conversion factors in statistical work on fisheries

Standardization of such factor to increase comparability of internationally compiled statistics.

SJH:sjh MF

Canada, Fisheries Council (1958) 580870
Annu.Rev.Fish.Coun.Can., 13th annual meeting, 76 p.

Incl. short articles on fisheries of Great Lakes N.W. Atlantic and West Indies; marketing and sales; efficiency of metal lobster traps; European common market and Canadian fish exports; utilization of stocks and product.

FiB:sjh MF

Daniel, A. (1958) 580871
J.sci.industr.Res., 17C:18-20
Settlement of marine foulers and borers in the Madras harbour in relation to velocity of water currents

M

Mirashi, M.V. (1958) 580874
Proc.Indian Acad.Sci., 47B:97-101
Contribution to our knowledge of the physiological anatomy of some Indian 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 auromycin

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

Jain, S.L. (1957) 580877
Proc.nat.Acad.Sci.India, 27B:26-30,53-63
Monogenea of Indian fresh water fishes. 5. Dactylogyrus multispiralis n.sp.(subfamily Dactylogyrinae) from the gill filaments of Silondia silondia (Ham.) from Lucknow, India. 6. Three new trematodes belonging to the genus Neodactylogyrus Price, 1938 (family Dactylogyridae), from some freshwater fishes of Lucknow, India

F

Ganguly, D.N. & B.N. Mitra (1957) 580880
Geogr.Rev.India, 19:26-30
Distribution of fry collection centres, methods of collection and the fry trade in the river Bhagirathi

F

Kirtisinghe, P. (1957) 580878
Ceylon J.Sci.biol.Sci., 1:67-72
Vertebral column of the flatfish Psettodes erumei (Bloch and Schneider)

M

Davies, D.H. (1957) 580881
Invest.Rep.Div.Fish.S.Afr., (30):40 p.
The south African pilchard (Sardinops ocellata) - Preliminary report on feeding off the west coast, 1953-56

Stomach contents analysis - quantities, types of organism; relation of composition of plankton in stomach to that in the sea.

FAO:sjh M

Chacko, P.I., S. George & P.P. Krishnaswamy (1957) 580879
Rep.Madras Fish.Statist., (53):29 p.
Census of the sea fisherfolk and fishing crafts and gear in Madras State, 1957

M

Burrows, R.E. (1957) 580882
Spec.sci.Rep.U.S.Fish Wildl.Serv., (246) 11 p.
Diversion of adult salmon by an electrical field

Describes the "Entiat-type" electrical weir, the factors influencing its operation, the reaction of Oncorhynchus to its field and its application in salmon culture.

GLK:wad

Halver, J.E., D.C. DeLong & E.T. Mertz (1957) 580883
J.Nutr., 63:95-105
Nutrition of salmonoid fishes. V. Classification of essential amino acids for chinook salmon

MF

Shelbourne, J.E. (1957) 580886
Nature, Lond., 180:920-2
Site of chloride regulation in marine fish larvae

M

Merkens, J.C. & K.M. Downing (1957) 580884
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

F

Barnholdt, B. & W. Hjarde (1957) 580887
Acta physiol.scand., 41:49-67
Chromatographic separation of five vitamin A_1 isomers from the eyes of deep-water prawns, Pandalus borealis

M

Petrenko, I.N. & A.A. Karasikova (1957) 580885
Fish Ind., Moscow, 33(10):62-3
Amino-acid composition of proteins of one-year-old carp and their foodstuffs

F

Schlieper, C. (1957) 580888
Année biol., 33:117-27
Comparative study of Asterias rubens and Mytilus edulis from the North Sea and the western Baltic Sea

M

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

F

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

M

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

MF

Stal'makova, G.A. (1957) 580892
Trud.Lab.Ozer.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

Don'gina, R.S. (1957) 580893
Trud.Lab.Ozer.Acad.Nauk.U.R.S.S., 4:
269-305
Hydrobiological data from the investigation of the lakes of the northwestern part of the Amu-Darya delta

MF

Don'gina, R.S. (1957) 580894
Trud.Lab.Ozer.Acad.Nauk.U.R.S.S., 4:
306-48
Hydrobiological survey of the Gulf of Adzhibaĭ 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

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

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

F

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

Alperovich, M.L. (1957) 580899
Fish Ind., Moscow, 33(3):48-9
O promysle lososevykh na Dalnem 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

Vinogradov, L.G. (1957) 580900
Fish Ind., Moscow, 33(3):49-51
Ob okhrane zapasov kamchatskogo kraba (Crab protection reserves in Kamchatka)

Reserves, abodes & behaviour of Kamchatka crabs. Nippo-Soviotic 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

Evropeitseva, N.V. & A.I. Zatsepilova (1957) 580902
Fish Ind., Moscow, 33(3):56-61
Vyrashchivanie pokatnikov baltiiskogo lososia i taimenia v prudovykh usloviiakh (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

Guseinov, M.Sh. (1957) 580903
Fish Ind., Moscow, 33(3):62-3
Pervy opyt poluchoniia zreloi ikry i lichinok kurinskoi beługi (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

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

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

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

Johannesson, J.K. (1957) 580907
Nature, Lond., 180:285-6
Nature of the bacterial agent in sea water

Testing the effect of organic substances on the survival of Escherichia coli. Theory that iodate, present in sea water, may be the "universal toxic agent".

GLK:tl M

Worthington, L.V. (1957) 580908
Nature, Lond., 180:291
Underwater sounds heard from sperm whales

A note on detection by echo-sounders, and recording in phonographic records of sounds emitted by Physeter catodon off the coast of North Carolina and south of Cape Cod.

GLK:hr M

Tamura, T. (1957) 580909
Bull.Jap.Soc.sci.Fish., 22:742-6
(On the relation between the intensity of illumination and the shifting of cones in the fish retina). Ni

Methods; results of experiments with Lateolabrax japonicus and Cyprinus carpio and discussion of the implications of these results for interpretation of fish behaviour with respect to lights used in fishing.

SJH:glk F

U.K. Ministry of Agriculture, Fisheries & Food (1957) 580910
Fish.Lab., Lowestoft, (mimeo), 8 p.
On the relation between the intensity of illumination and the shifting of cones in the fish retina

English translation of 580909.

FiB: F

Thailand. Ninth Pacific Science Congress (1957) 580911
Bangkok, 193 p.
Thailand past and present

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.

GLK:glk MF

Wales, J.H. (1957) 580912
Department of Fish & Game, Sacramento, 55 p.
Trout of California

Popular booklet describing the native and introduced Salmo and Salvelinus, their distribution and habits, and giving some notes on life breeding, management, etc.

WAD:wad MF

Baxter, E.W. (1957) 580913
Nature, Lond., 180:1145
Lamprey distribution in streams and rivers

Some observations on the relations between stream gradient and ammocoete distribution, and a request for information on the latter subject.

GLK:wad F

Beard, D.M. (1957) 580914
Nature, Lond., 180:1145
Occurrence of Elminius modestus Darwin in Ireland

First record of this Australasian barnacle in Ireland.

GLK:wad M

India. Zoological Society (1957) 580915
Calcutta, 10 p.
History, constitution and regulations of the Zoological Society of India

New and revised edition of J.zool.Soc. India, 3(1):213-21, June 1951.

GLK: MF

Mann, K.H. (1957) 580916
J.Anim.Ecol., 26(1):99-111
A study of a population of the leech Glossiphonia complanata

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.

SJH:sjh F

Moon, H.P. (1957) 580917
J.Anim.Ecol., 26(1):113-23
The distribution of Asellus in Windermere

Relation of distribution of A. aquaticus (L.) and A. meridianus Rac., to type of shoreline and to each other.

SJH:sjh F

Mann, K.H. (1957) 580918
J.Anim.Ecol., 26(1):171-7
The breeding, growth and age structure of a population of the leech Helobdella stagnalis (L.)

Growth, reproduction and survival measurements of a lake population.

SJH:sjh F

Crisp, D.J. (1957) 580919
J.Anim.Ecol., 26(1):179-96
The orientation of barnacles to water currents

Directional distributions on various spp. on different sites, and relation of these to currents, light direction, age of barnacle.

SJH:sjh M

Sloane, J.F. & al. (1957) 580920
J.Anim.Ecol., 26(1):197-211
The ecology of the Lough Inc Rapids with special reference to water currents - V. The sedentary fauna of the laminarian algae in the Lough Inc area

Relation of spp. to environmental conditions; algal frond weights and surfaces.

SJH:sjh MF

Royce, W.F. (1957) 580921
Fish.Bull., U.S., 57:497-554
Observations on the spearfishes of the central Pacific

Taxonomy, distribution, size, food and spawning habits of spearfishes are considered. 6 spp. are recognized: swordfish (Xiphias gladius), shortnose spearfish (Tetrapturus angustirostris), sailfish (Istiophorus orientalis), black marlin (Istiompax marlina), striped marlin (Makaira audax), and Pacific blue marlin (Makaira ampla).

HR:hr M

Union Géodésique & Géophysique Internationale (1957) 580922
Paris, 242-88
Chronique de l'U.G.G.I. no. 7 (I.U.G.G. Chronicle no. 7). En Fr

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).

FiB:tl M

Union Géodésique & Géophysique Internationale (1957) 580923
Paris, 290-320
Chronique de l'U.G.G.I. no. 8 (I.U.G.G. Chronicle no. 8). En Fr

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).

TL:tl M

Hubbs, C. & K. Strawn (1957) 580924
J.exp.Zool., 134(1):33-62
Survival of F_1 hybrids between fishes of the subfamily Ethcostominae

Artificial hybridisation of various pairs of Ethcostoma (Microperca), E. (Nanostoma), E. (Poecilichthys), E. (Oligocephalus), Percina and Hadropterus. Fecundity, comparison with natural hybrids, intermediacy between parents in morphological, behavioural and developmental characteristics.

WAD:sjh F

Vinogradova, Z.A. (1957) 580925
C.R.Acad.Sci.U.R.S.S., 116:688-90
Biokhimicheskii sosta planktona Chernogo moria (Biochemical composition of the Black Sea plankton)

Account of seasonal variations of biochemical compositions of plankton & its nutritive quality.

FAO:go M

Kroger, D.R. (1957) 580928
Nature, Lond., 180:867-8
X-ray interferences of barium sulfate in fungi and algae

F

Kojima, Y. (1957) 580926
Nippon Suisangaku Kaishi, 22:104-7
The preparation and purification of alginic acid by electrodialysis - III. The preparation of alginic acid by electrodialysis with three chambers

M

Sorokin, Yu.I. & M.V. Kozlyaninov (1957) 580929
C.R.Acad.Sci.U.R.S.S., 116:863-5
Oprodelenie zavisimosti fotosintoza fitoplanktona 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)

Simultaneous analysis, by application of radioactive carbon isotope C^{14} & measurements by photoelectric hydrophotometer.

FAO:go M

Kojima, Y. (1957) 580927
Nippon Suisangaku Kaishi, 22:108-11
The preparation and purification of alginic acid by electrodialysis - IV. The decoloration of alginic acid with chlorine gas

M

Fisher, L.R., S.K. Kon & S.Y. Thompson (1957) 580930
J.Mar.biol.Ass.U.K., 36:501-7
Vitamin A and carotenoids in certain invertebrates. VI. Crustacea: Penaeidea

Vitamin A & carotenoids were measured in 6 spp. of Penaeidae & 7 spp. of Sergestidae.

GLK:hr M

Denton, E.J. & F.J.Warren (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 se daylight.

GLK:hr M

Droop, M.R. (1957) 580934
Nature, Lond., 180:1041-2
Vitamin B_{12} in marine ecology

M

Klemperer, 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 B_{12} in marine ecology

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

Zhirmunskiĭ, A.V. & M.I. Kiseleva (1957) 580937
C.R.Acad.Sci.U.R.S.S., 116:517-20
(Adaptation of Actinia from the Black Sea to increased salinity). Ru

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.

FAO:go M

Savchenko, O.N. (1957) 580940
Biokhimiia, 22:702-7
Effect of temperature on the metabolism of labile phosphorus of adenosinetriphosphoric acid in the brain of fish in vitro

F

Gel'nrikh, A.K. (1957) 580938
C.R.Acad.Sci.U.R.S.S., 117:321-4
(Vertical distribution of plankton in the region south-east of the Bonin islands). Ru

Study of spp., their size, concentration & amount at different depths (down to 500 m.).

FAO:go M

Seshadri, B. (1957) 580941
J.anim.Morphol.Physiol., 4:43-7
Amylases in mullets

MF

Amatniek, D. & al. (1957) 580939
J.gen.Physiol., 41:333-42
Effect of temperature, potassium, and sodium on the conductance change accompanying the action potential in the squid giant axon

M

Kojima, Y. & H. Kusakabe (1957) 580942
J.sci.Res.Inst., Tokyo, 51:189-94
Isolation of natural substances by ion-exchange resins. VI. A new nitrogenous constituent found in squid

M

Verwey, J. (1957) 580943
Annéc biol., 33:129-49
Influonce of temperature on osmotic regulation

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

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

M

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

M

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

M

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

M

García, M.D. Pineda (1957) 580949
Trab.Inst.esp.Oceanogr., (23):46 p.
The lipides of the flesh of the cod (Gadus morrhua)

M

Pera, F. (1957) 580950
Latv.PSR Zinat.Akad.Vestis, (3):97-109
Conditions of nitrogen fixation in lakes of Latvia - I. Conditions of fixation of free nitrogen

F

Bidwell, K.W.E. & D.E. Foreman (1957) 580951
Nature, Lond., 180:1195-6
Distribution of strontium-90 in pond weed and fish

F

Powell, D.E. & A.E. Peterson (1957) 580952
Spec.sci.Rep.U.S.Fish Wildl.Serv., (205): 30 p.
Experimental fishing to determine distribution of salmon in the north Pacific Ocean, 1955

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 frequencies.

WAD:glk M

Walburg, C.H. (1957) 580953
Spec.sci.Rep.U.S.Fish Wildl.Serv., (206): 13 p.
Neuse river shad investigations, 1953

Investigations to determine total catch, fishing effort, fishing rate, size of run, and spawning escapement for 1953.

GLK:glk F

Graham, J.J. (1957) 580954
Spec.sci.Rep.U.S.Fish Wildl.Serv., (212): 38 p.
Central north Pacific albacore surveys, May to November 1955

5 cruises were completed by Pacific Oceanic Fishery Investigations during May-Nov., 1955, to investigate the albacore tuna, Germo alalunga, (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.

GLK:glk M

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

Thrailkill, 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

Gorloff, G.C. & F. Skoog (1957) 580961
Ecology, 38:551-6
Availability of iron and manganese in southern Wisconsin lakes for the growth of Microcystis aeruginosa

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.

GLK:glk F

Gorloff, G.C. & F. Skoog (1957) 580962
Ecology, 38:556-61
Nitrogen as a limiting factor for the growth of Microcystis aeruginosa in southern Wisconsin lakes

Relative requirements and availability of nitrogen and phosphorus were evaluated by laboratory and field observations.

GLK:glk F

Pimentel, D. (1957) 580963
Ecology, 38:576-80
Life history of Australorbis glabratus, the intermediate snail host of Schistosoma mansoni in Puerto Rico

A laboratory study of this freshwater snail. Data on fecundity and growth.

GLK:sjh F

Fager, E.W. (1957) 580964
Ecology, 38:586-95
Determination and analysis of recurrent groups

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.

GLK:sjh MF

Hubbs, C. & K. Strawn (1957) 580965
Ecology, 38:596-602
The effects of light and temperature on the fecundity of the greenthroat darter, Etheostoma lepidum

Habitat and egg-deposition behaviour are described and field observations on reproductive rate and temperature and light are reported.

GLK:glk

Cottam, G., J.T. Curtis & A.J. Catana (1957) 580966
Ecology, 38:610-22
Some sampling characteristics of a series of aggregated populations

Three indices for the measurement of aggregation using distance methods and problems of homogeneity and complexity of aggregation patterns in natural populations are discussed.

GLK:sjh MF

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

Frick, H.C. (1957) 580968
J.Fish.Res.Bd Can., 14:683-6
The optimum level of fisheries exploitation

Discussion of 580967.

GLK:

Miller, 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

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

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

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
Östkusten, July 1957:4 p.
Växlingarna i gädd- och abborrfångsten vid Östersjökusten (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) 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

Puke, 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 Älukarleby hatchery 1954-56)

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

TL:tl F

Alm, G. (1957) 580976
Vandringsfisk.Medd., (10):3 p.
Laxfiskot i Östersjöområdet 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

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

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.
Étude, 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

Brouardel, J. & J. Vernet (1958) 580980
Bull.Inst.océanogr.,Monaco, (1111):34 p.
Recherches expérimentales sur la variation 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 phenomenum is physico-chemical, but of organic origin.

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 granulometry of the sediment permitted the definition of chief ecological factors

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

FAO:hr M

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

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 vertical baffle 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 osceola 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 gilberti (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. Schroeder (1958) 580990
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

Doubler, E.E., Jr. & W.E. Fahy (1958) 580991
Copeia, (1):55
A reversed ambicolorate summer flounder, Paralichthys dentatus

Notes on external features.

FAO:glk M

Hoese, H.D. & C.O. Berglund, Jr. (1958) 580992
Copeia, (1):55-6
Coloration in Texas hogchokers, Trinectes maculatus fasciatus

Description of a typical colorless form.

FAO:glk M

Hubbs, C.L. (1958) 580993
Copeia, (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.

FAO:glk F

Grey, M. (1958) 580994
Copeia, (1):56-7
Second specimen of the bathypelagic fish Photostylus pycnopterus

Description of specimen in US National Museum.

FAO:glk M

Houck, W.J. (1958) 580995
Copeia, (1):57
Another record of the agonid Bothragonus swani from California

Description and some observations on behaviour.

FAO:glk M

Hubbs, C. (1958) 580996
Copeia, (1):57-9
Fertility of F_1 hybrids between the percid fishes, Ethcostoma spectabile and E. lepidum

Discussion of hybrid fertility; geographic range of the crossed species, description of crosses made and report of viability of offspring.

FAO:glk F

Böhlke, J.E. (1958) 580997
Copeia, (1):59
Substitute names for Nystactes Böhlke and Lucaya Böhlke, preoccupied

Notice of preoccupied names.

FAO:glk MF

Gordon, M.S. (1958) 581000
Copeia, (1):61-2
The physiology of the pituitary gland of fishes

Review of 580999.

FAO: MF

Hecht, M.K. (1958) 580998
Copeia, (1):60-1
Vertebrates of the United States

Review of 570150.

FAO: MF

Walters, V. (1958) 581001
Copeia, (1):62-3
The physiology of fishes. I. Metabolism

Review of 570207.

FAO: MF

Pickford, G.E. & J.W. Atz (1957) 580999
New York zool.Society, New York, 613 p.
The physiology of the pituitary gland of fishes

Reviews the pituitary functions in fishes. The techniques, procedures and results of pituitary treatment to induce fish to reproduce are summarized in tabular form.

:hr MF

Kubo, I. & T. Yoshihara (1957) 581002
Kyoritsu Shuppan Co., Tokyo, 345 p.
The science of aquatic resources

Stocks and their definition, age determination, growth of individuals & of populations, survival phenomena, methods of estimating populations, analysis of fluctuations in populations, overfishing & optimum catch, propagation & protection, tagging, preservation of specimens, & methods of measuring animals.

:sjh MF

Pintler, H.E. & W.C. Johnson (1958) 581003
Calif.Fish Game, 44:91-124
Chemical control of rough fish in the Russian river drainage, California

Description of the water basin, its fish & fisheries; large-scale use of rotenone to control unwanted spp. with aim of improving fishery for Salmo g. gairdneri; costs incurred & evaluation of results.

SJH:sjh F

Barnard, J.L. (1958) 581006
Calif.Fish Game, 44:161-70
Amphipod crustaceans as fouling organisms in Los Angeles - Long Beach harbors, with reference to the influence of sea-water turbidity

Experimental study of settling of amphipods, polychaetes, tunicates, mussels, & serpulids; effect of fouling organisms on restricting attack by borers such as Limnonia, & consideration of deliberately encouraging settlement for this purpose by causing a favorable artificial turbidity.

SJH:sjh M

Wales, J.H. (1958) 581004
Calif.Fish Game, 44:125-36
Two new blood fluke parasites of trout

Epizootic in Salmo g. gairdneri and S.g. kamloops in 1955 at Darrah Spring Hatchery, California, traced to Sanguinicola davisi & S. klamathensis. Descriptions of these digenetic trematodes, & role of snails Oxytrema & Fluminicola spp. in their life-histories, suggested control methods.

SJH:sjh F

McKeever, K.L. (1958) 581007
Calif.Fish Game, 44:171-4
Albinism and ambicoloration in the California halibut (Paralichthys californicus)

Ill. description of 2 unusual specimens taken in S. California waters in summer of 1956.

SJH:sjh M

Rosenblatt, R.H. & W.J. Baldwin (1958) 581005
Calif.Fish Game, 44:137-59
A review of the eastern Pacific sharks of the genus Carcharhinus, with a redescription of C. malpelocnsis (Fowler) and California records of C. remotus (Duméril)

Incl. morphometric data; ill. key to the genus.

SJH:sjh M

Young, P.H. (1958) 581008
Calif.Fish Game, 44:199-200
Sea fisheries: their investigation in the United Kingdom

Review of the original book with the same title by Graham, M. (Ed.), Edward Arnold Ltd., London, (1956).

SJH:sjh M

Wolf, H. (1958) 581009
Calif.Fish Game, 44:200
The physiology of the pituitary gland of fishes

Review of 580999.

SJH: MF

Eddy, S. (1957) 581010
Wm.C. Brown Co., Dubuque, Iowa, 254 p.
How to know the freshwater fishes

F

Kimsey, J.B. (1958) 581011
Calif.Fish Game, 44:203-4
How to know the freshwater fishes

Review of 581010.

SJH: F

Trautman, M.B. (1957) 581012
Ohio St.Univ.Press & Ohio Div.Wildl., St.Univ.Developm.Fund, 683 p.
The fishes of Ohio

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.

:sjh F

Kelley, D.W. (1958) 581013
Calif.Fish Game, 44:204
The fishes of Ohio

Review of 581012.

SJH: F

Pollak, M.J. (1957) 581014
Trans.Amer.geophys.Un., 38:62-4
Axial slope of sea level in Chesapeake Bay

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.

:tl M

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

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

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

FAO:glk F

Wundsch, H.H. (1957) 581017
Z.Fisch., 5:481-5
Bericht über die dritte Tagung der Deutschen Limnologen in der Internationalen 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

Wundsch, H.H. (1957) 581018
Z.Fisch., 5:487-504
Die Organisation der fischereiwissenschaftlichen 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

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

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

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 Seetypensystems (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

Tesch, F.W. (1957) 581030
Z.Fisch., 5:593-606
Percidenwachstum in eutrophen norddeutschen 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 Untersuchungen an Maaren El Salvadors (Mittelamerika) (Hydrobiology of Central American shallow lakes, and limnological investigations of Crater lakes in El Salvador (Central America))

FAO: F

Woynarovich, M. (1957) 581031
Z.Fisch., 5:607-15
Zur Frage der Einführung von Tieren als Fischnahrung, vom produktionsbiologischen 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

Schiemenz, F. (1957) 581029
Z.Fisch., 5:581-91
Die Flachheit als entscheidende Ursache für die Eigenart eines Sees (Shallowness 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, Pomatomus, Aldrichetta, Amphitherapon, Nematalosa, Mugil and Sciaena.

FiB:sjh MF

Portugal. Comissão Central de Pescarias (1957) 581033
Ministério da Marinha, Lisboa, 57 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)

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.

FAO:sjh MF

Nieviessky, E.N. (1958) 581034
Bull.Com.centr.Océanogr., 10:309-23
Etude 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)

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.

FAO:glk M

Saint-Guily, B. (1958) 581035
Bull.Com.centr.Océanogr., 10:324-34
Mouvements radiaux de Hamel en presence d'une force de Coriolis (Hamel's radial movements in the presence of Corioli's force)

Mathematical treatment and examination of certain oceanic currents, in particular of counter-currents and multiple veins in the Gulf Stream, as being analogous.

FAO:glk M

Borrit, G.R. (1958) 581036
Bull.Com.centr.Océanogr., 10:335-58
Les saisons marines à Pointe-Noire (Marine seasons at Pointe-Noire)

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.

FAO:glk M

Danforth, W.C. & C.A. Theodore (1957) 581037
Spec.sci.Rep.U.S.Fish Wildl.Serv., (241):
Hull insurance and protection and indemnity insurance of commercial fishing vessels

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.

GLK:sjh MF

Pirilä, V. & Bo-J. Wikgren (1957) 581038
Acta derm.-venereol., Stockh., 37:140-8
Cases of swimmer's itch in Finland

Notes on the distribution of Cercaria ocellata and Bilharziella polonica in Scandinavian lakes. Clinical picture of the swimmer's itch, the causative agents and the life history of schistosome trematodes are described.

FiB:tl F

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 & Oystor, 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 (Forskal)

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

Anonymous (1957) 581045
Curr.Sci., 26:172
Sea-going cosmic-ray observatory

Note on IGY program using Swedish merchant vessel LOMMARIN on route Swedon-S. Africa.

FAO:sjh M

Ramaseshan, S. (1957) 581048
Curr.Sci., 26:267-70
The International Geophysical Year

General account of program and of the contribution to be made by India, incl. oceanographic observations at coastal stations.

FAO:sjh M

Venkataraman, G.S. (1957) 581046
Curr.Sci., 26:180-1
A statistical study of a form of Wollea bharadwajae Singh

Taxonomy of samples of this alga from Banaras.

FAO:sjh F

Velankar, N.K. & T.K. Govindan (1957) 581049
Curr.Sci., 26:285-6
Free α-amino acid nitrogen content of the skeletal muscle of some marine fishes and invertebrates

Gives values for spp. of Scoliodon, Sphyrna, Hilsa, Chirocentrus, Tylosurus, Sphyraena, Scomberomorus, Pampus, Decapterus, Caranx, Drepane, Scatophagus, Neptunus, Portunus and Homarus.

FAO:sjh M

P.N.G. (1957) 581047
Curr.Sci., 26:190
The molluscs of Krusadi Island

Review of original article with the same title by Satyamurti, S.T., Bull.Madras Govt.Mus.(nat.Hist.), 1(2), 1956.

FAO. M

Anonymous (1957) 581050
Manager of Publications, Delhi, 392 p.
The Indian ephemeris and nautical almanac for the year 1958

M

1(4):56

Rao, B.S. Madhava (1957) 581051
Curr.Sci., 26:312-3
The Indian ephemeris and nautical almanac

Critical review of 581050.

FAO: M

India. Ministry of Food & Agriculture (1957) 581054
Indian Fisheries Bulletin, 4(1):36 p.

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 sjh MF

Haldane, J.B.S. (1957) 581052
J.Madras Univ.Sec.B, 27(January)
The elementary theory of population growth

Population increase or decrease if mortality and fertility as a function of age remained constant over a period of several generations.

sjh MF

Bohl, H. (1957) 581055
Ber.dtsch.Komm.Meeresforsch., 15(1) 1-57
Die Biologie der Kliesche (Limanda limanda L.) in der Nordsee (Biology of the dab (Limanda limanda L.) in the North Sea). En

Distribution, population density, age & growth, age & sex composition of population, propagation & distribution of egg & larvae; discussion on minimum size for catch.

FAO:tl M

Anonymous (1957) 581053
Curr.Sci., 26:333
Pearl culture in Australia

A brief note on methods used.

FAO:sjh M

Kühl, H. & K. Tiews (1957) 581056
Ber.dtsch.Komm.Meeresforsch., 15(1):58-69
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). En

Fishing grounds, fishing fleet & landing ports, course of the fishery, composition of the catch by size and spp., and total catches.

FAO:tl M

Hutchinson, G.E. (1957) 581057
John Wiley & Sons, Inc., New York, 1015p.
A treatise of limnology

Origin of lake basins; their morphology; properties of water; hydrological cycle and water balance, hydrodynamics; optical and thermal properties; CO_2 and pH of lake waters; iron phosphorus and sulphur, nitrogen and silica cycles; organic matter, minor metals in lake waters.

:sjh F

Lapage, G. (1958) 581060
Nature, Lond., 181:1362-3
First symposium on host specificity among parasites of vertebrates

Review of 581059.

GLK: MF

Strøm, K. (1958) 581058
Nature, Lond., 181:1360-1
A treatise of limnology

Review of 581057.

GLK: F

Garrod, D.J. & B.S. Newell (1958) 581061
Nature, Lond., 181:1411-2
Ring formation in Tilapia esculenta

Study of samples from L. Victoria shows relation between ring formation and calcium content of scales and ovaries at various stages of gonad maturation.

GLK:sjh F

Baer, J.G. (Ed.) (1957) 581059
Inst.Zool.Univ. de Neuchatel, 324 p.
First symposium on host specificity among parasites of vertebrates

Incl. papers on evolution of fishes; host-specificity of various groups of parasites.

:sjh MF

Green, J. & R.Phillips Dales(1958)581062
Nature, Lond., 181:1412-3
Bilivordin in the eggs of Nereis fucata

Nature of blue pigment in eggs of this polychaete living in shells carried by the hermit-crab Eupagurus bernhardus in English Channel. Lists its occurrence also in cirripede Septosaccus, and in N. diversicolor.

GLK:sjh M

1(4):58

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

Dehnel, 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 Hemigrapsus nudus & H. oregonensis, on Canadian Pacific Coast, under variety of conditions of temperature & salinity.

GLK:sjh M

Andrewartha, H.G. & T.O. Browning (1958) 581064
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 these, particularly for the fishculture in the Congo.

GLK:hr MF

Whittaker, R.H. & C. Warren Fairbanks (1958) 581069
Ecology, 39(1):46-65
A study of plankton copepod communities in the Columbia basin, southeastern Washington

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.

FAO:glk F

MacArthur, R.H. (1958) 581072
Ecology, 39(1):146-7
A note on stationary age distributions in single-species populations and stationary species populations in a community

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.

FAO:sjh MF

Reed, E.B. & J.R. Olive(1958) 581070
Ecology, 39(1):66-74
Altitudinal distribution of some entomostraca in Colorado

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 entomostracan distribution are discussed.

FAO:glk F

Blackith, R.E. (1958) 581073
Ecology, 39(1):147-50
Nearest-neighbour distance measurements for the estimation of animal populations

The relation between density and the nearest-neighbour distances with results of experiments with grasshopper populations, and discussion of the effects of non-randomness.

FAO:glk MF

Bardach, J.E. (1958) 581071
Ecology, 39(1):139-46
On the movements of certain Bermuda reef fishes

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.

FAO:glk M

Dore, W.G. (1958) 581074
Ecology, 39(1):151-2
A simple chemical light-meter

Description and test use of apparatus based on property of solution of anthracene in benzene to form insoluble polymer on exposure to sunlight.

FAO:sjh MF

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', 'holocene'.

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

Menzies, 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 (Acanthocephala)

Preliminary description of P. allahabadii n.sp. found in alimentary canal and body cavity of 40% of the fish, Ophicephalus punctatus (Bloch), examined from Allahabad, India.

FAO:sjh M

Provost, M.W. (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 radio-active 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

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

Desbrosses, P. (1957) 581083
J.Cons.int.Explor.Mer, 23(1):3-5
Henri Heldt, 1891-1956

Obituary and short biography.

GLK:sjh 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

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

Woodhead, P.M.J. & J.D. Riley (1957) 581086
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

Kipling, C. (1957) 581087
J.Cons.int.Explor.Mer, 23(1):50-63
The effect of gill-net selection on the estimation of weight-length relationships

Comparison of gill-net with seine caught samples of Perca fluviatilis and Salvelinus alpinus willughbii. Use of multiple-size gill nets.

GLK:sjh MF

Doelder, C.L. (1957) 581090
J.Cons.int.Explor.Mer, 23(1):83-8
On the growth of eels in the IJsselmeer

Length frequencies and otolith studies of male Anguilla vulgaris; variability of growth.

GLK:sjh MF

Margetts, A.R. (1957) 581088
J.Cons.int.Explor.Mer, 23(1):64-71
The length-girth relationships in whiting and cod and their application to mesh selection

Reports measurements of N. Sea catches, of both natural and constricted girth; considers various aspects of the relation between fish and mesh size.

GLK:sjh M

Twomey, E. (1957) 581091
J.Cons.int.Explor.Mer, 23(1):89-96
Salmon of the river Shannon (1952-1956)

Strengths of runs, age distributions from scale samples.

GLK:sjh MF

Salzen, E.A. (1957) 581089
J.Cons.int.Explor.Mer, 23(1):72-82
A trawling survey off the Gold Coast

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.

GLK:sjh M

Darbyshire, J. (1957) 581092
J.Cons.int.Explor.Mer, 23(1):97-8
Slopes of the sea surface deduced from photographs of sun glitter

Review of original article with the same title by Cox, C. & W. Munk, 1956, Bull.Scripps Instn Oceanogr., 6(9):401-79.

GLK: M

Carruthers, J.N. (1957) 581093
J.Cons.int.Explor.Mer, 23(1):98-9
A new bottom map of the southern North Sea

Review of original article in German, by Jarke, J., 1956, Dtsch.hydrogr.Z., 9(1):1-9.

GLK: M

Braarud, T. (1957) 581096
J.Cons.int.Explor.Mer, 23(1):102-3
The open sea: its natural history. The world of plankton

Review of original article with the same title by Hardy, A.C., 1956, Collins, London, 103 p.

GLK: M

Fage, L. (1957) 581094
J.Cons.int.Explor.Mer, 23(1):100
Cumacea of the Benguela Current

Review of the original article with the same title by Jones, N.S., 1955, Discovery Rep., 27:279-91.

GLK: M

Steven, G.A. (1957) 581097
J.Cons.int.Explor.Mer, 23(1):103-4
Some aspects of the schooling behaviour of fish

Review of original article with the same title by Keenleyside, M.H.A., 1955, Behaviour, (8):183-248.

GLK:

Franc, A. (1957) 581095
J.Cons.int.Explor.Mer, 23(1):100-1
The pelagic mollusca of the Benguela current. I. First survey, R.R.S. WILLIAM SCORESBY, March 1950

Review of original article with the same title by Morton, J.E., 1954, Discovery Rep., 27:163-200.

GLK: M

Went, A.E.J. (1957) 581098
J.Cons.int.Explor.Mer, 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

Review of original article with the same title by Nall, G.H., 1955, Freshw.Salm. Fish.Res., 10:1-19.

GLK: F

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

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

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 Hyûga 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

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 Jørgenson's method, of feeding by weighing dried feces; effect on these rates of bentonite concentration studied in Venerupis semidecussata, Meretaria meretrix, Ostrea gigas & Mutilus edulis.

SJH:sjh

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

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 latipos 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

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

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 syncrony & its converse in fluctuations of different stocks, & their relation to indicator groups; relations synchronized fluctuations to similarities in preferred

water temperatures.

SJH:sjh

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

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

Honda, K. (1957) 581111
Bull.Jap.Soc.sci.Fish., 23:383-7
(On the line disused after tuna long-line fishings). Ni En

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.

SJH:sjh M

Kurogane, K. & Y. Hiyama (1957) 581112
Bull.Jap.Soc.Sci.Fish., 23:388-93
(Morphometric comparison of the yellow-fin tuna taken from the Equatorial Pacific). Ni En

Measurements of Neothunnus macropterus 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.

SJH:sjh M

Kô, Y. (1957) 581113
Bull.Jap.Soc.sci.Fish., 23:394-8
(Some histological notes on the gonads of Tapes japonica Deshayes). Ni En

Studies of this clam in Sasebo 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.

SJH:sjh M

Kuroki, T. (1957) 581114
Bull.Jap.Soc.sci.Fish., 23:400-4
(Biophysical studies on the auditory characteristic of fish - I. Directional audibility through one lateral line). Ni En

Experimental study of 20cm Carassius auratus of response to various frequencies & intensities of vibrations. Remarks on the technical aspects of these experiments & the design of suitable aquaria for them.

SJH:sjh F

Yoneda, Y. & Y. Yoshida (1957) 581115
Bull.Jap.Soc.sci.Fish., 23:405-9
(Physiological and ecological studies on red tide - I. On the vertical migration of the plankton producing red tide (1)). Ni En

Laboratory experiments on Sennia sp. collected at Maizuru Bay, Nov. 1955: effect of light, salinity, pH, O_2 and other factors on its buoyancy; relation of these effects to the conditions under which red-tide is observed to occur in the field.

SJH:sjh M

Onodera, K. (1957) 581116
Bull.Jap.Soc.sci.Fish., 23:410-9
(On the change of fishing effort corresponding to that of types of river). Ni En

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 Pleuroglossus altivelis, showing concentration at rapids, & other differences depending on type of river bed.

SJH:sjh F

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

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 laver 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

Nozawa, Y. & K. Nozawa (1957) 581119
Bull.Jap.Soc.sci.Fish., 23:427-9
(Studies on a disease 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 disease causing orange-yellow spots on the oyster shell and may be fatal to the Porphyra.

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

Suyama, M. & Y. Uno (1957) 581121
Bull.Jap.Soc.sci.Fish., 23:438-40
(Puffer toxin during the embryonic development of puffer, Fugu (Fugu) niphobles (J. & S.)). Ni En

Ill. account of bio-assay of toxin in artificially fertilized eggs.

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

Kashiwada, K., D. Kakimoto & K. Kawagoe (1957) 581123
Bull.Jap.Soc.sci.Fish., 23:450-3
(Studies on vitamin B_{12} in sea water - III. On the diurnal fluctuation of vitamin B_{12} in the sea and its vertical distribution in the lake). Ni En

Results of analysis by microbiological method of water in Kagoshima Bay & Lake Ikoda; relation between water temperature & amount of vitamin.

SJH:sjh MF

Nakamura, T. (1957) 581126
Bull.Jap.Soc.sci.Fish., 23:494-6
(Paper chromatographic study on sugar component of red algae). Ni En

Chemical composition of 9 spp. of sea weeds from Aoshima, Miyazaki.

SJH:sjh M

Kikuchi, T., T. Hirano & I. Okada (1957) 581124
Bull.Jap.Soc.sci.Fish., 23:467-70
(Polarographic studies of proteins contained in fish - Preliminary report). Ni En

Study of muscles, blood & viscera of Katsuwonus pelamis & Meretrix meretrix lusoria.

SJH:sjh M

Ito, K. (1957) 581127
Bull.Jap.Soc.sci.Fish., 23:497-500
(Amino acid composition of the muscle extracts of aquatic animals). Ni En

Microbiological analysis of spp. of Scomber, Trachurus, Sepia, Fugu, Octopus, & Mylio.

SJH:sjh M

Baba, H. (1957) 581125
Bull.Jap.Soc.sci.Fish., 23:471-5
(Studies on the proteins of shell-fish - IV. On the non-heat coagulable fractions). Ni En

Reports analysis of muscle extracts of Meretrix meretrix, Mactra sulcataria & Atrina japonicum.

SJH:sjh M

Pannier, F.P. (1958) 581128
Acta cient.venezol., 9(1):2-13
El consumo de oxigeno de plantas acuaticas en relacion a distintas concentraciones de oxigeno (Oxygen consumption of aquatic plants in relation to different oxygen concentrations)

A study of intensity of respiration of marine and freshwater plants.

FAO:hr MF

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

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 hermaphrodisme protérandrique 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

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

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

Hela, I. & F. Koroleff (1957) 581133
Merentutkimuslait.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

Palosuo, [illegible] (1958) 581134
Merentutkimuslait.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

Masuzawa, J. (1957) 581135
Rec.oceanogr.Wks Jap., 3(1):1-7
An example of cold eddies south of the Kuroshio

Description, cutting-off, modification & disappearance of cold eddies in the boundary region of Oyashio & Kuroshio.

FAO:tl M

Ichiye, T. (1957) 581138
Rec.oceanogr.Wks Jap., 3(1):26-35
On the storm surges caused by the typhoon 5415 "Marie" (I)

Description of general features of storm surges, their durability & relations between the wind stress and the storm surges.

FAO:tl M

Yasui, M. (1957) 581136
Rec.oceanogr.Wks Jap., 3(1):8-15
On the rapid estimation of the dynamic topography in the seas adjacent to Japan

Dynamic depth anomalies from 653 observations are plotted against mean temperatures of 100 m. layes; 1000 db surface is taken as reference level. ΔD is estimated from these graphs & a comparison is made between the dynamic topographies of N. Pacific, using present & conventional methods (with T. & S.).

FAO:tl M

Ichiye, T. (1957) 581139
Rec.oceanogr.Wks Jap., 3(1):36-48
On the storm surges caused by the typhoon 5415 "Marie" (II)

Description of storm surges at the stations near the path of the typhoon & along the coast & in the bays.

FAO:tl M

Ichiye, T. (1957) 581137
Rec.oceanogr.Wks Jap., 3(1):16-25
A note on the horizontal eddy viscosity in the Kuroshio

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.

FAO:tl M

Hayami, S., Y. Fukuo & D. Yoda (1957) 581140
Rec.oceanogr.Wks Jap., 3(1):49-55
On the tidal mixing of sea water through narrow channels

Description of the mixing by tides in respect of temperature & chlorinity in the Naruto & Akashi Straits between Seto Inland Sea & open ocean.

FAO:tl M

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 "Kaken" 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

FAO/58/7/5112

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

Raney, E.C. (1957) 581150
Spec.sci.Rep.U.S.Fish Wildl.Serv.,(208): 85-95
Subpopulations of the striped bass Roccus 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 & Platypoecilus 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 Hemophilus piscium.

FAO:sjh F

FAO/58/7/5112

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 Statistics (Ed.) (1958) 581156
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 intermediate hosts (Sphaerium corneum & perhaps also Phoxinus phoxinus); behaviour of cercariae, effect on host; life-history, comparison with other gorgoderids.
FAO:sjh F

Norway. Committee for Whaling Statistics (Ed.) (1958) 581157
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 Fisheries (1958) 581158
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. Bretschneider & D.W. Hood (1957) 581160
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

Brouer, 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, redfish & black drum in the area.

FAO:tl M

Simmons, E.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:tl 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:tl 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:tl 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: Rhadinorhynchidae, Gorgorhynchidae, Polymorphidae & Neoechinorhynchidae.

FAO:tl 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:tl M

Fingerman, M., L.D. Fairbanks & W.C. Plaupho (1957) 581170
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:tl 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) 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

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

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

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 interaction between cytoplasmic granules & fertilized, but not unfertilized egg surface.

FAO:tl M

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

Christenson, A.M. & J.J. McDermott (1958) 581177
Biol.Bull., Woods Hole, 114:146-79
Life history and biology of the oyster crab, Pinnotheres ostreum Say

Reinvestigation of the biology of the crab & discussion on the crab-oyster association.

FAO:tl M

Ganaros, A.E. (1958) 581178
Biol.Bull., Woods Hole, 114:188-95
On development of early stages of Urosalpinx cinerea (Say) at constant temperatures and their tolerance to low temperatures

Contents as per title.

FAO:tl M

Hsiao, S.C. & H. Boroughs (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

Contents as per title.

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

Lynch, W.F. (1958) 581181
Biol.Bull., Woods Hole, 114:215-25
The effect of X-rays, irridiated sea water, and oxidizing agents on the rate of attachment of Bugula larvae

Contents as per title.

FAO:tl M

Mazia, D. (1958) 581182
Biol.Bull., Woods Hole, 114:247-54
The production of twin embryos in Dendraster by means of mercaptoethanol (Monothioethylene glycol)

Contents as per title.

FAO:tl M

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
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CURRENT BIBLIOGRAPHY FOR FISHERIES SCIENCE

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Biology Branch, Fisheries Division

Curr.Bibliogr.Fish.Sci., 1(5).Suppl.1-5 Rome, July 1958
1(5):1-110; A1-7
(containing: references and author index to 581183-581842,
and also geographic index to 580715-581182 [1(4).G1-2]

FAO/58/7/5823 [2.1(2)]

Errata

Make appropriate amendment to 580726 & 580725 as follows:

Le Cren, 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 CBFS 1(6).

FAO/58/7/5823

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

FAO/58/7/5823

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, Bohr, Mechnikov 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. Zolokina (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 discrepances 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 sulphydryl 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 ovogenesis, 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 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.), Le-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. Gerbilskii; "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, Mylopharingodon piceus and Hypophtalmichtys 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 Pyongyong, in 1958.

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Union of South Africa 580881

NORTH AMERICA

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Finland 580898 581038 580133 580134
Netherlands 580780 580856 581090
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New Zealand 580816
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Chesapeake Bay	580820	581014	581150
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East African Lakes			581061
American Great Lakes	580837	580870	580904
Aral Sea	580891	580893	580894

Wilimovsky, N.J. & W.O. Freihofer (1957) 581183
Spec.sci.Rep.U.S.Fish Wildl.Serv., (209): 266 p.
Guide to literature on systematic biology of pacific salmon

General subject index, index of topics by spp. & annotated bibliography.

GLK:glk MF

Baird, R.H. (1958) 581186
World Fish., 7(6):48-9
Aqualung diving - Threat to fishermen?

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.

SJH:sjh M

Stuart, T.A. (1957) 581184
Freshw.Salm.Fish.Res., (18):27 p.
The migrations and homing behaviour of brown trout (Salmo trutta L.)

Describes investigations in Scottish lochs on young and mature fish.

FAO:wad F

Anonymous (1958) 581187
World Fish., 7(6):68
Some facts about turbot in Scottish water

A summary of an article in December 1957 issue of "Scottish Fisheries Bulletin" (Scottish Home Dept.).

SJH:sjh M

Buchanan, J.B. (1958) 581185
Proc.zool.Soc.Lond., 130(1):1-56
The bottom fauna communities across the continental shelf off Accra, Ghana (Gold Coast)

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.

FAO:sjh M

Anonymous (1958) 581188
World Fish., 7(6):71
Moderate fishing only forecast for Bear Island

Predictions for Cod Fishery in 1958, based on "Fish Stock Record" (2).

SJH:sjh M

Fishor, R.L., A.J. Carsola & G. Shumway (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

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 genetic approach.

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

Richards, A.F. (1958) 581192
Deep-Sea Res., 5(1):29-35
Transpacific distribution of floating pumice from Isla San Benedicto, Mexico.

A probable transpacific drift of floating trachytic pumice originating from the 1952 erruption of Volcán Bárcena on Isla San Benedicto off the west coast of Mexico is reported. Pumice from San Benedicto was collected in the Islas Revillagigedo and on Hawaii, Johnston, Wake & the Marshall Islands.

GLK:tl M

Hassan, E.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

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. Wilkins (1958) 581196
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

Kuenen, 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.Ser.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 Rheinstromes durch Berufs- und Sportfischer Erfahrungen aus der hessischen Rheinfischerei (Joint management of the Rhine by professional and sports fishermen. Experiences from the Rhine fishery in Hesse)

Morphological description of Rhine in Hesse; distribution of the fishery between professional & sports fishermen; improvement of fishery,& description & amounts of gear. General evaluation of the fishery in Hesse 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.: Penaeus setiferus, P. aztecus, P. duorarum, Xiphopenaeus kroyeri, Macrobrachium ohione & M. acanthurus.

FAO:glk M

~~FAO/58/7/5823~~

International Commission for the Northwest Atlantic Fisheries (1958) 581207
Halifax, 58 p.
Statistical Bulletin vol. 6 for the year 1956

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.

SJH:sjh MF

581209 (Card 2)
operations carried out in the bank of Avinö on the coast of Norway.

FAO:hr M

Teiling, E. (1957) 581208
Bot.Notiser, 110(1):49-82
Morphological investigations of asymmetry in desmids

Discusses terminology & different types of asymmetry, & their morphological & taxonomic significance.

FAO:tjj MF

Berthois, L. (1957) 581211
Rev.Trav.Off.Pêche marit., 21:485-554
Recherches sur les sediments de la mer du nord et de la mer d'Irlande (Research on the sediments of the North and Irish Seas)

Studies of the granulometry of the sediments, total nitrogen content, morphometry & lithology of gravel, etc.

FAO:hr M

Ancellin, J. (1957) 581209
Rev.Trav.Off.Pêches marit., 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)

Gives a list of invertebrates dredged at several stations in the North Sea & English Channel, & information on the topography, hydrography, (salinity, temperature & currents), nature of bottom, & fauna (benthic invertebrates & fishes) collected during dragging & trawling

Balloy, M. (1957) 581212
Rev.Trav.Off.Pêche marit., 21:555-60
Résultats de quelques experiences sur l'élévage 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)

Experiments & observations on the role of different organic & inorganic chemical agents.

FAO:hr M

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

Mordukhai-Boltovskoi, F.D. (1957) 581214
Priroda, Moskva, 46(7):99-100
Kaspiiskie nizidy v reke Shcksme (Caspian mysidae in the river Shexna)

Capacity of upstream migration of mysidae. Description of specimens found in the river Shexna (left-bank tributary of the Volga), over 3000 km from the Caspian Sea.

FAO:go MF

Kleinenberg, S.E. (1957) 581215
Priroda, Moskva, 46(7):101-3
Ob okhrane morzha (Walrus conservation)

Description of the animal, its habits & abodes. Commercial use, degree of extermination & conservation measures.

FAO:go 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

Balabanova, Z.M. (1957) 581217
Priroda, Moskva, 46(9):55-60
Za chistotu vodoemov 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

Richter, G.D. (1957) 581218
Priroda, Moskva, 46(9):95-8
Ozera Zapadno- Sibirskoi nizmennosti (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

Dolgopolov, K.V. & L.F. Fedorova (1957) 581219
Priroda, Moskva, 46(10):63-72
Na beregakh volikoi Russkoi roki (On the shores of the great Russian river)

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.

FAO:go F

Vinogradov, M.E. (1957) 581220
Priroda, Moskva, 46(10):89-92
Ozera Antarktichoskogo "Oazisa" (Lakes of the Antarctic "Oazi".)

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 Acanthocyclops was discovered in a freshwater lake, & Nematodes were found in saltwater lakes.

FAO:go MF

Movchan, V.A. (1957) 581221
Priroda, Moskva, 46(10):107-8
Rybovodstvo v kolahozakh i sovrkhozakh (Fish breeding on collective & state farms)

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.

FAO:go F

Postnov, V.A. (1957) 581222
Priroda, Moskva, 46(10):108-9
Novoe ekspeditsionnoe sudno MIKHAIL LOMONOSOV (New scientific-expedition ship MIKHAIL LOMONOSOV)

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.

FAO:go M

Kuznetzov, N.T. (1957) 581223
Priroda, Moskva, 46(12):38-9
V Turgaiskoi lozhbino (The Turghai valley)

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.

FAO:go F

Kozlov, V.V. (1957) 581224
Priroda, Moskva, 46(12):40
O zagriaznenii roki Enisei (Pollution of the river Yenisei)

The author states that practically nothing is done to prevent industrial concerns from discharging noxious waste into rivers. Long sections of the Yenisei 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.

FAO:go F

Kuronkov, I.I. (1957) 581225
Priroda, Moskva, 46(12):49-54
Vozdeistvio vulkaniz ma na rechnnin 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 infiltration of noxious substances, carried by springs at the foot of volcanos, & from repeated earthquakes.

FAO:go F

Ermolenko, 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 effecting fish poison)

Investigations on the influence of various doses of the chemical on fish and description of the symptons 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 Phanerogamen und ihre Beziehung zur Kohlensäureversorgung (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.E. (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

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

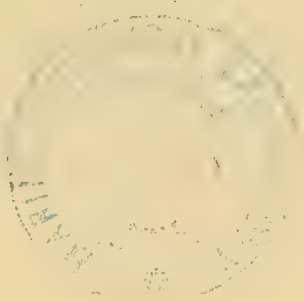
Boury, M. (1958) 581233
J.Cons.int.Explor.Mer, 23:155-6
Louis Lambert, 1886 - 1957

An obituary & short biography, with account of his contributions to shell fish culture.

GLK:sjh M

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

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

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 phyto-plankton 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, E. 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

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

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

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 Veen benthos grabs. Sampling efficiency & its relation to depth of penetration of sea-bed by grab jaws; implications of this bias.

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

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

Bolster, G.C. (1958) 581243
J.Cons.int.Explor.Mer, 23:228-34
On the shape of herring schools

Echo-survey using Decca navigator in English Channel to plot shoals of Clupea harengus & relate their alignment to tidal streams & topographic features of sea-bed. Relation of results to conduct of drift-net fishing.

GLK:sjh M

Baird, R.H. (1958) 581246
J.Cons.int.Explor.Mer, 23:249-57
Measurement of condition in mussels and oysters

Comparisons of various methods for Mytilus & Ostraea 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.

GLK:sjh M

Farris, D.A. (1958) 581244
J.Cons.int.Explor.Mer, 23:235-44
Diet-induced variation in the free amino acid complex of Sardinops caerulea

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.

GLK:sjh M

Jordan, H.D. (1958) 581247
World Crops, 10:83-6
Rice destruction by crabs

Damage caused by Sarmatium curvatum, Sesarma alberti, S. angolense & S. huzardi feeding on rice seedlings cultivated on tidal mangrove swamps of Sierra Leone.

FAO:sjh MF

Mauchline, J. (1958) 581245
J.Cons.int.Explor.Mer, 23:245-8
An improved instrument for measuring small crustacea

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.

GLK:sjh M

Rounsefell, G.A. (1957) 581248
Fish.Bull., U.S., (122):451-68
Fecundity of north American Salmonidae

Review & analysis of published data for Salvelinus, Oncorhynchus & Salmo. Variability between stocks, & differences in average size of fish & age at maturity.

FAO:sjh MF

Mercier, 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:tl F

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

O.H.S. (1958) 581251
J.Cons.int.Explor.Mer, 23:259
Currents in Sea Straits

Review of original article in German by Defant, A., (1955), Dtsch.hydrogr.Z., 8(1):1-15.

GLK: M

Tucker, M.J. (1958) 581252
J.Cons.int.Explor.Mer, 23:259-61
General oceanography

Review of 570429.

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

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.gen.Fish.Coun.Medit., 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 Wyrtki, (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 See

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

Benco, E. & R. Cassinis (1957) 581262
Geophys.Prospectg., 5:82
The bottom of the Strait of Messina: geological and geophysical studies

M

Biriconmater, K. (1957) 581263
Przegl.Geofiz., 2(10):165-78
Turbidity currents in the marine environment

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

Darbyshire, J. (1957) 581265
Dock Harb.Author., 38:277-8
Sea conditions at Tema Harbour: Analysis of wave recorder observations

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

Emery, K.O. (1958) 581268
Bull.geol.Soc.Amer., 69:39-60
Shallow submerged marine terraces of southern California

M

Greenspan, M. & C.E. Tschiegg (1957) 581269
Rev.sci.Instrum., 28:897-901
Sing-around ultrasonic velocimeter for liquids

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

Inglis, C.C. & F.H.Allen (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

Inman, D.L. (1957) 581272
Tech.Memor,U.S.Army Eros.Bd, (100):44 p.
Wave-generated ripples in nearshore sands

M

Jagodzinski, Z. (1957) 581273
Acad.Polon.Sci., Com.Geod., 9 p.
Multiple echoes in echosounders and the probability of detection of small targets

M

Japan, Meteorological Agency (1957) 581276
Met.Data Antarctic Ocean, 1:38 p.
(Statistical data observed on board the Japanese whaling ships for 10 years commencing at 1946). Ni

M

Germany, Seewetteramt (1957) 581274
Einzelveröff.,(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)

M

Kolp, O. (1957) 581277
Ann.Hydr., 8:37-47
Die Schwermineralanteile verschiedener Meeresbodenarten der Beltsee (The proportions of heavy minerals in different kinds of sea-bottom in the Belt-sea)

M

Goedecke, E. (1957) 581275
Ann.Met., Hamburg, 8:80-92
Neuere Untersuchungen über die Vorbereitungs- 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)

M

Mankowski, W. (1957) 581278
Przegl.Geofiz., (2)10:137-53
Zmiany stosunków hydrologicznych w Baltyku w okresie 1946-1956 w świetle badań polskich (Changes in hydrographic relations in the Baltic 1954-56 in the light of Polish research)

M

Moore, D.G., & P.C. Scruton (1957) 581279
Bull.Amer.Ass.Petrol.Geol., 41:2723-51
Minor internal structures of some recent unconsolidated sediments

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

Sager, G. (1957) 581281
Ann.Hydr., 8:23-36
Zur quasilinearen Abbildung im Rauscholbach-Hochseepegel (On the almost linear description of the water-gauge in the Rauscholbach-Hochsee)

M

Saint-Guily, B. (1957) 581282
Bull.Inst.océanogr.Monaco, 1108:10 p.
Les méandres des veines de courant dans les océans (Current meanders in the oceans)

M

Schemainda, R. (1957) 581283
Ann.Hydr., 8:48-64
Die ozeanographischen Veränderungen im Bornholmtief in den Jahren 1951-1955 (Oceanographic changes in the Bornholm-depth during the years 1951-1955)

M

Sibul, O.J. & J.W.Johnson (1957) 581284
Proc.Amer.Soc.civ.Engrs, J. Waterways Harb.Div., 83WW1:1210-1, 1210-32
Laboratory study of wind tides in shallow water

M

Słomianko, P. (1957) 581285
Przegl.Geofiz., 2(10):179-84
Przycznek do analizy ruchu rumowiska morskiego (Reasons for analyzing movement of marine debris)

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

Szymborski, S. (1957) 581287
Przegl.Geofiz., 2(10):155-64
Wspolczesne problemy falowania (Current wave problems)

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

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:tl 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:tl 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

Bhuiyan, A.L. (1957) 581292
E.Pakist.Inform., Dacca, 7(2-3):33-8
Migration of marine fishes in East Pakistan

M

Waldron, K.D. (1958) 581293
Contr.Fish Comm.Ore., (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

Gokhale, S.V. (1957) 581294
J.Bombay nat.Hist.Soc., 54:714-25
Operation of the Dol net off the Saurashtra coast

M

Hashmi, T.A. (1957) 581295
Biologia, 3(1):73-121
The skeleton of Rita rita Hamilton: Teleostei, Siluridae

F

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

Job, S.V. (1957) 581297
Proc.Indian Acad.Sci., 45B(6):302-13
The routine active oxygen consumption of the milk fish

Physiological experiments on Chanos chanos.

:sjh MF

Kewalramani, H.G. & B.F. Chhapgar (1957) 581298
J.Bombay nat.Hist.Soc., 54:770-3
Occurrence of a rare sting ray (Taeniura melanospila Bleeker) in Bombay waters

M

Jenson, P.T. (1958) 581299
Adm.Rep.Inl.Fish.Calif., (58-1):39 p.
Catchable trout studies in region II, 1957

Creel census following planting of marked fish, checked with electrical shocking.

WAD:tjj F

Krishnamurthi, B., K.A.Dorairajah & A.D. Venkatasamy (1957) 581300
Proc.Indian Acad.Sci., 45B(4):165-75
An investigation of large-scale fish mortality in a temple tank in Madurai

F

Marathe, V.B. & R.S. Kulkarni (1957) 581301
J.Univ.Bombay, 25B(41)Pt. 5:29-40
The circulatory system of Ophicephalus striatus Bloch

F

Roy, J.C. & N. Sahoo (1957) 581302
J.Bombay nat.Hist.Soc., 54:949-53
Additions to the fish fauna of the Chilka Lake: India

MF

Sufi, S.M.K. (1957) 581303
Pakist.J.Sci., 9(4):170-2
Occurrence of fishes of the genus Glyptothorax in Peshawar and Hyderabad divisions of West Pakistan

F

A. & M. College of Texas, Dept. of Oceanography & Meteorology (1958) 581306
College Station, Texas, 14 p.
Catalogue of IGY oceanographic data in IGY World Data Center A

Lists, for each country, time & kind of observations 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 & F. Naib (1957) 581307
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

Percior, A. (1958) 581308
Rev.Trav.Off.Pêche marit., 22(1):7-30
Les specifications des engins de pêche (Specifications of fishing gear)

Describes the manufacture of fishing gear & defines sizes & measurements.

FAO:hr M

Lassarat, A. (1958) 581309
Rev.Trav.Off.Pêches marit., 22(1):31-63
La pêche en côte d'Ivoire (Fisheries of the Ivory coast)

Describes the indigenous & industrial (European) fisheries, & marketing & industrialization of fishery products.

FAO:hr M

Hattop, H.-W. (1958) 581312
Z.Fisch., 7(1/2):1-90
Die Möglichkeiten der Bewirtschaftung von stehenden Gewässern und Flussläufen Mit Hilfe der Elektrofischerei (On the possibilities of managing standing waters and river courses with the help of electricity). En Ru

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: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.

FAO:hr M

Flemming, 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: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 & Panulirus.

FAO:hr M

Bauer, O. (1958) 581314
Z.Fisch., 7(1/2):153-60
Die Erforschung der Fischkrankheiten in den Sowjetteichwirtschaften 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:glk F

Fromm, P.O. & R.H. Schiffman (1958) 581315
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. & W.L. Bidlingmayer (1958) 581316
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 eksperimenata 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. Bernor (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 & enemies) are discussed.

FAO:glk M

Barnard, J.L. (1958) 581325
Pacif.Sci., 12:146-51
Revisionary notes on the Phoxocephalidae (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 Schellenberg; zoogeographical reasons fo provisional retention of the genus Harpiniopsis Stephensen; & new key to existing genera of Phoxocephalidae.

FAO:glk M

Iversen, E.S. & E.E. Hoven (1958) 581323
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

Haneda, Y. (1958) 581326
Pacif.Sci., 12:152-6
Studies on luminescence in marine snails

Observations on luminous phenomena, & on the effects of temperature; structur & histology of the luminous organ, & biochemistry.

FAO:glk M

Bannor, A.H. (1958) 581327
Pacif.Sci., 12:157-69
Contributions to the knowledge of the alphoid shrimp of the Pacific Ocean - III. On a small collection from Onotoa, Gilbert Islands

Systematic list with ecological & other notes.

FAO:glk M

Bary, B.M. (1958) 581328
Pacif.Sci., 12:170-80
Records of scattering layers from New Zealand seas

Tabulation, illustration & discussion of records.

FAO:glk M

Nakamura, E.L. (1958) 581329
Pacif.Sci., 12:181
An unusually large salp

Thetys vagina Tilesius taken at 22°15' N, & 157°46' W.

FAO:glk M

Bowman, T.E. (1958) 581330
Pacif.Sci., 12:181-2
First Pacific record of the Whale-louse genus Syncyamus (Amphipoda:Cyamidae)

Specimens from a dolphin taken near Tabogvilla Island.

FAO:glk M

Anonymous (1958) 581331
Science, 127(3288):23
Surface measurement of gravity in ocean areas

Note on first successful surface measurement of gravity in open sea by J.L. Worzel from U.S.S. COMPASS ISLAND.

FAO:sjh M

Klein, L. (1958) 581332
Research, Lond., 11:214-20
Chemical aspects of river pollution

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.

FAO:sjh F

U.K. Ministry of Agriculture, Fisheries & Food (1958) 581333
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

Canada. Dominion Bureau of Statistics (1958) 581334
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

Bekker, V.E. (1957) 581335
C.R.Acad.Sci.U.R.S.S., 117:889-91
O vliianii uslovii sushchestvovaniia na razvitie gonad i portsionnost ikrometaniia u zolatogo karasia (Carassius carassius L.) (Development 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

Svetovidov, A.N. (1957) 581336
C.R.Acad.Sci.U.R.S.S., 117:910-3
O chernomorskikh vidakh roda schorpaena (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

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

Prévot, A.-R. (1958) 581338
Bull.Inst.océanogr., Monaco, (1114):22 p.
Utilité de la bactériologie marine dans le présent et l'avenir (The usefulness 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
Khloridno-Natrii-Kaltsievyo vody v chetvertichnykh otlozheniiakh chernogo moria (Chloride-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
Sovremennye vertikalnye dvizheniia beregov dalnevostochnykh morei (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
Opredelenie moshchnosti potokov poschannykh nanosov u morskikh beregov (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

Coblents-Mischke, 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 shipdeck & at various depths. Accumulation of organic carbon & liberation of oxygen were studied on different samples in different conditions.

FAO:go M

Detlof, T.A. (1957) 581341
C.R.Acad.Sci.U.R.S.S., 116:341-4
Kortikalnye granuly i veshchestva, vydeliaiushchiesia iz animalnoi chasti iaitsa v period aktivatsii u osetrovykh 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 pomesi leshcha 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
Meteorologicheskaia kharakteristika vnutrennego raiona vostochnoi Antarktidy po nablindeniiam na stantsii Pionerskaia (Meteorological description of the inner region of East Antarctic according to observations carried out at the Pionerskaia station)

Standard meteorologic, actinometric aerologic & glaciologic observations.

FAO:go M

Krainshkina, L.S. (1957) 581348
C.R.Acad.Sci.U.R.S.S., 117:542-4
Gistofisiologicheskaia kharakteristika organov pishchevarikelnoi sistemy lichinok sevringi na razlichnykh etapakh razvitiia (Histophysiological description of the organs of the alimentary system in larvae of Acipenser stellatus Pallas at various stages of their development)

Study of the various stages of development, 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 lezhbishcha katikov i mesta obitania kalanov na Kurilskikh ostrovakh 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 untill now as extermination on the Kuril Islands) rookeries, discovered by an exploring party sent to appraise the number of sea-lions.

FAO:go M

Lineikin, 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 segoletkov sudaka Rybinskogo vodokhranilishcha (Intestinal parasites of young Lucioperca 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 Ekman'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

Sorokin, Iu.I. & A.N. Moshkov (1958) 581352
C.R.Acad.Sci.U.R.S.S., 118:205-7
Primenenie radioaktivnogo ugleroda C^{14} dlia opredelenia usvoiaimosti protokokkovykh vodoroslei motylei Tendipes plumosus (Assimilation of Protococcus algae by Tendipes plumosus, determined by applying radioactive carbon C^{14})

Description of experiments, showing the advantages of this method for studying alimentary relations of aquatic organisms.

FAO:go M

Shtefan, M. (1958) 581353
Zool.Zh., 37:222-8
Fiziologicheskii analiz vzaimosviazi mezhdu gazoobmenom i stainym povedeniem u nekotorykh morskykh i presnovodnykh 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

Dyk, V. (1958) 581354
Biologické Práce, 4(2):32 p.
Lipan podhorní (Thymallus thymallus (L.) 1758/ v různých nadmořských polohách ČSR 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 grayling occurres, & conclusions about the requirements of environmental conditions by grayling.

FAO:tl F

Svärdson, G. (1957) 581355
Svensk FiskTidskr., 66:37-42
Skoppträsklöjan (Vendace in the lake Great Skoppträsk)

Note on the occurrence of small grown population of vendace in the lake, the growth of vendace, & its morphological characteristics (especially number of gillrachers), variations in strength of year class.

FAO:tl F

Nordin, S. (1957) 581356
Svensk FiskTidskr., 66:42-3
Öringlek 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

Svärdson, G. (1957) 581357
Svensk FiskTidskr., 66:89-90
Motgift mot rotenon (Antipoison against rotenon)

Notes on the use of potassium permanganate for oxidation of rotenon.

FAO:tl F

Curry-Lindahl, K. (1957) 581358
Svensk FiskTidskr., 66:91-4
Om rödingen i rinnande vatten (On char in running water)

Notes on the occurrence of char (Salmo alpinus) in brooks & rivers in Northern Sweden.

FAO:tl F

Ahl, E. (1957) 581359
Svens FiskTidskr., 66:94-7
En kräftfiskoundersökning i Ljungan (A grayfish investigation in the river Ljungan)

Notes on the abundance & catches of gray-fish in the river.

FAO:tl F

Hult, J. (1957) 581360
Svensk FiskTidskr., 66:105-8
Lönar sig fiskodlingen? (Is fish-culture profitable?)

Review of the problems of fish-culture for the purpose of stocking of natural waters in Sweden.

FAO:tl F

Agnedal, P.-O. (1957) 581361
Svensk FiskTidskr., 66:108-13
Fiskestatistik i sjön Erken 1952-1956 (Fisheries statistics in the lake Erken, 1952-1956)

Yield of fish by spp. & year, & discussion on the year-to-year changes in yield.

FAO:tl F

Borzinž, B. (1957) 581362
Svensk FiskTidskr., 66:118
Fenklippningsförsök med bäckröding (Fin cutting test with rainbow trout)

Notes on the possibilities for tagging of fish by cutting of fins and the regeneration of fins by Salmo fontinalis.

FAO:tl F

Anonymous (1958) 581363
Dansk FiskTid., 76:34-8
Totaludbyttet af dansk fiskeri viste ny betydelig fremgang i året 1957
(Total yield of Danish fishery showed a new considerable progress in the year 1957)

Preliminary review of Danish fisheries statistics, including notes on fishing-effort.

FAO:tl M

h.k. (1958) 581366
Dansk FiskTid., 76:217
Uenighed mellem havforskere på en sildekonference i Bremen (Disagreement between marine scientists on a herring Conference in Bremen)

Notes on a discussion of over-fishing problems in the North Sea.

FAO:tl M

Anonymous (1958) 581364
Dansk FiskTid., 76:189
Hvillingeundersøgelserne i Nordsøen m.v.
(Whiting investigations in the North Sea)

Notes on the tagging of whiting, & race investigations.

FAO:tl M

Bertelsen, E. (1958) 581367
Dansk FiskTid., 76:241
De internationale sildemærkninger og industrifiskeriets fangststatistik
(International tagging of herring & the catch statistics of "industrial fishery" (fishery for reduction plants)

Notes on the results of herring tagging in the North Sea, 1957, & the influence of Danish industrial fishery on the herring stocks.

FAO:tl M

Anonymous (1958) 581365
Dansk FiskTid., 76:199-200
De fiskeribiologiske undersøgelser angående Nordsørødspætter m.v.
(Fisheries biological investigations on North-Sea plaice)

Notes on the year-class strengths & tagging of plaice.

FAO:tl M

Anonymous (1958) 581368
Dansk FiskTid., 76:265-6
Undersøgelserne omkring Færøerne og i nordligere havområder (Investigations around Faeroers and in the northern sea areas)

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.

FAO:tl M

Anonymous (1958) 581369
Dansk FiskTid., 76:275-8
Undersøgelserne i de fersko vande (Investigations in fresh water)

Short review of the Danish investigations in inland waters with the emphasis on pollution problems.

FAO:tl F

A.F. (1958) 581372
Dansk FiskTid., 76:297-8
Fiskeribiologi og rødspætter (Fisheries biology and the plaice)

Discussion on the rentability of transplantation of plaice in Danish waters.

FAO:tl M

Anonymous (1958) 581370
Dansk FiskTid., 76:287-8
Undersøgelse af giftstoffers indvirken på fisk (Investigations on the influence of poisons on fish)

Short review of the investigations conducted in Danish Physiological Laboratory, e.g. (the influence of chlorination, radioactive pollution, treatment with hormones etc. on fish).

FAO:tl MF

Wolle-Strand, E. (1958) 581373
Dans.FiskTid., 76:310
Vimå opsøge fiskene siger Finn Devold (We must search for fish, says Finn Devold)

Notes on Mr. Finn Devold's plans for intensification of the survey of off-shore fisheries resources.

FAO:tl M

Anonymous (1958) 581371
Dansk FiskTid., 76:289-93
Fiskeri- og havundersøgelserne i farvandene ved Grønland (Fisheries and oceanographic investigations off Greenland)

Short review of Danish investigations with emphasis on the size of cod stocks.

FAO:tl M

Toudouze, G.G. (1958) 581374
France pêche, 3(18):16-8
Eaux territoriales, plateau continental et avenir de la pêche (Territorial waters, continental shelf & the future of fisheries)

A brief summary of this problem.

FAO:sjh M

International Commission for the Northwest Atlantic Fisheries 581375 (1958)
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

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

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

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

Le Cren, E.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

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 effectively 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 meetings. Costs of fisheries research & their allocation as between participating 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

Convenor's report on this topic.

SJH:sjh M

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 & recommendations for standardization & further experiments. List of contributed papers.

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

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 & mesh measuring methods; conduct of gear selection experiments, age-determination of fish, growth studies. Identification of questions requiring discussion & test.

SJH:sjh MF

Gulland, J.A. (1958) 581391
Spec.Publ.I.C.N.A.F., (1):179-90
Working party VI - Age determination of cod by fin rays and otoliths

Contribution to working party on comparison of techniques reporting experiments to study differences between methods & between observers.

SJH:sjh M

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

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

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

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

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

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

Lucas, C.E. (1958) 581405
Spec.Publ.I.C.N.A.F., (1):267-74.
Working party VII - Differentiation of fish stocks

Convenor'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 Sebastes. Recommendations for research; list of contributed papers.

SJH:sjh M

Alvariño, A. (1958) 581406
Spec.Publ.I.C.N.A.F.,(1):275
Working party VII - Zooplankton from Newfoundland waters

Abstract of contribution to working party on differentiation of fish stocks reporting occurrence of zooplankton in surface hauls, 1955, incl. larvae of Mallotus villosus & eggs of Gadus callarias, Hippoglossoides platessoides & Limanda ferruginea.

SJH:sjh M

Colton, J.B., Jr. (1958) 581407
Spec.Publ.I.C.N.A.F., (1):277
Working party VII - Adaptability of the hardy plankton recorder to research ship studies

Short abstract of contribution to working party on differentiation of fish stocks, dealing with sampling methods for larval fishes.

SJH:sjh M

Colton, J.B., Jr. (1958) 581408
Spec.Publ.I.C.N.A.F., (1):279
Working party VII - Report on studies of fluctuations of year-class strength of haddock

Abstract of contribution to working party on differentiation of fish stocks, giving analysis of egg & larvae surveys in N.W. Atlantic.

SJH:sjh M

Corlett, J. (1958) 581409
Spec.Publ.I.C.N.A.F., (1):281-8
Working party VII - Distribution of larval cod in the western Barents Sea

Contribution to working party on differentiation of fish stocks review published data & reporting new observations, all being summarized by maps.

SJH:sjh M

Fraser, J.H. (1958) 581410
Spec.Publ.I.C.N.A.F., (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

A review contribution to working party on differentiation of fish stocks, with special reference to spp. of Gadus, Pleuronectes, Nansonia, Stomias, Brosme, Molva, Merluccius, Myctophum, Maurolicus & Bathylagus, as well as occurrence of rare genera such as Mola.

SJH:sjh M

Steele, D.H. (1958) 581411
Spec.Publ.I.C.N.A.F., (1):311
Working party VII - The redfish (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

Fleming, 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 Porrocaecum & 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, Merluccius, 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 encrasicholus, Solea vulgaris, Caranx trachurus & Scomber scombrus. Comment on associated changes in distribution of Sepia 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 redfish 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

Rollefsen, G. (1958) 581417
Spec.Publ.I.C.N.A.F., (1):339
Working party VIII - Review of knowledge about the Atlantic halibut

Brief report by convenor 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 & D.B. Smith (1958) 581418
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
Pretoria, 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

Odell, N.E. (1958) 581423
Geogr.J., 124:287-8
Professor Léon William Collet

Obituary & short biography of this geologist, with account of his work on physical limnology.

FAO:sjh F

Emery, F.V. (1958) 581426
Geogr.J., 124:296
Lewis Morris (1701-65), surveyor and geographer

Letter commenting on Robinson, A.H.W., 1957, (581425) with reference to mention of Morris's activities as a marine surveyor.

FAO:sjh M

Mackay, J.R. (1958) 581424
Geogr.J., 124:294-5
Arctic "vegetation arcs"

A letter commenting on "staircase ponds" & water course patterns described by Ives, R.L. (1941) J. Geomorphol., 4: 285-96, in relation to papers of Macfadyen, W.A. (1950) Geogr.J., 116: 199-211 & Greenwood, J.E.G.W. (1957) Geogr.J., 123:465-75.

FAO:sjh F

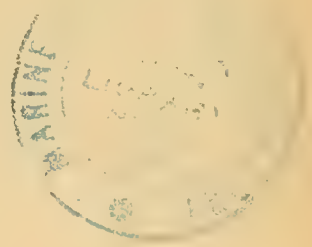
Gerasimov, I.P. (1957) 581427
Bull.Acad.Sci.U.R.S.S.(Géogr.), (5)
(The present situation with regard to the scientific study of the natural resources of the U.R.S.S.). Ru

MF

Robinson, A.H.W. (1957) 581425
Geogr.J., 123:453-4
Marine surveying in Britain during the seventeenth and eighteenth centuries

M

Bogorov, V.G. & al. (1957) 581428
Bull.Acad.Sci.U.R.S.S.(Géogr.), (5)
(The oceans of the world and their natural resources). Ru



M

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

Zaletaiev, 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

Soryalova, L.F. (1957) 581435
Bull.Acad.Sci.U.R.S.S.(Géogr.), (6)
(Assessment of evaporation and its ratio to irrigation). Ru

F

Gakkel', Y.Y. (1957) 581436
Bull.All-Un.geogr.Soc., (6)
(The continental shelf as a geographical zone of the Arctic ocean). Ru

M

Kubíček, F. (1958) 581437
Biológia, 13:190-202
K poznání zooplanktonu velkého a malého Vihorlatského jezera (To the knowledge of zooplankton of the Small and Great lake Vihorlat). Ru De

List of the spp. found & their horizontal & vertical distribution, with notes on seasonal variations.

FAO:tl F

Mišík, V. (1958) 581438
Biológia, 13:219-22
Ostračka lososovitá (Micropterus salmoides Lacépède 1802) v Dunaji (Micropterus salmoides Lacépède 1802 in the Danube). Ru De

Description of the species found in Danube in the vicinity of Štúrovo.

FAO:tl F

Atlantic States Marine Fisheries Commission (1958) 581439
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

El-Gedawi, I. (1958) 581440
El-Felaha, 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.

:SJH F

Lowe-Mc, C.C. (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

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 Macrocyclops, 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

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

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

Mackereth, 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

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.E. (1957) 581450
J.Anim.Ecol., 26:441-69
The winter feeding of the oystercatcher (Haematopus ostralegus) 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 M

Qasim, S.Z. (1957) 581448
J.Anim.Ecol., 26:389-401
The biology of Contronotus gunnellus L. (Teleostei)

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 Cypraecinae.

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 Eire, & one from the French coast.

:jac M

Finc, 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

Veillet, 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'oeufs chez Chirocephalus stagnalis Shaw (Crustacé Phyllopode) (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 molluses)

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

Pettersson, H. & K. Fredriksson (1958) 581462
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 Protohydra 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. e.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

Carter, 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); rectum (hind-gut); gastric digestion; intestinal digestion; adaptations of enzymes 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 Oosten, 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 prespawning 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 holothurioidea 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 Waitemata 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:tl MF

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

Barrett, J.H. & C.M. Yonge (1958) 581485
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

Arrecgros, J. (1958) 581486
Librairie Payot, Lausanne, 63 p.
Coquillages marins (Marine molluscs)

An ill. practical guide for the identification of gastropods & lamelli-branchs with instructions for collections.

FAO:hr M

Tåning, A.V. (1958) 581487
FiskBlad., 50:23-5
Rødspættetracer (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:tl M

Jonson, 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:tl M

Costlow, J.D., Jr. & C.G. Bookhout (1957) 581489
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

Crowell, S. & C. Wyttenbach (1957) 581490
Biol.Bull., Wood's Hole, 113:233-44
Factors affecting terminal growth in the hydroid Campanularia

Contents as per title.

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 crassipes shows preference for sea water of normal salinity or is able to adapt its osmotic regulation to different salinities.

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

Moulton, J.M. (1957) 581493
Biol.Bull., Wood's Hole, 113:286-95
Sound production in the spiny lobster Panulirus argus (Latreille)

Anatomy of the sound-producing mechanism & description of the behaviour of the spiny lobster in relation to sound production.

FAO:tl M

Phillips, J.H., Jr. & D.P. Abbott (1957) 581494
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
Contribuiçao para o conhecimento dos Stromateidae de Angola (Contribution to the knowledge of the Stromateidae of Angola)

Diagnostic account of the important characters of Cubiceps nigor 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
Copépodes dos mares de Angola. II. Ciclopoida e Harpacticoida (Copepods of Angolan seas. II. Ciclopoda 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 contribuiçao 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 Commission (1958) 581499
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 Delaroche.

HR:glk M

Hela, I. & F. Koroleff (1958) 581500
Merentutkimuslait.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 hydrographical data including temperatures at standard depths, read from BT, & surface temperatures & salinities taken underway & chemical data (pH, O_2, alkalinity, PO_4-P, Si, NO_3-N, NH_3-N, NO_2-N).

FAO:tl M

Trout, C.G. (1957) 581501
Fish.Invest., Lond., 21(6):51 p.
The Boar 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 Reusen der Binnenfischerei under besonderer Berücksichtigung, der Anfertigungsmethoden und der Normierung (Considerations on traps in fresh-water fisheries, with particular regard to terminology, methods of manufacture, & standardisation)

Systematic account of the terminology & structure of gears of this type.

FAO:glk F

Rychlicki, Z. & St. Zarnecki (1957) 581503
Z.Fisch., 5:423-42
Die Zatorer Karpfenaufzuchtmethode und deren 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 Schlammschnecken (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

Koltzer, I. (1957) 581508
Z.Fisch., 6:589-95
Leibeshöhlenverhältnisse der Linksformen von Pleuronectes platessa L. und Pleuronectes flesus L. (Abdominal cavity proportions in the left-form of Pleuronectes platessa L. & Pleuronectes flesus L.)

Examination of the disposition of various organs in the abdominal cavity in the normal & reversed forms.

FAO:glk M

Priwolnjow, T.I. (1957) 581509
Z.Fisch., 6:597-603
Die Atmung in der Ontogenese der Fische bei verschiedenem partiellem Sauerstoffdruck (Respiration in the ontogenesis 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

Auerbach, M. (1957) 581510
Z.Fisch., 6:605-20
Hat die Schilddrüse für die Temperaturadaptation der Fische eine Bedeutung? (Has the thyroid gland a significance for temperature adaptation in fish?)

Investigation of the effect of thiourea treatment on performance & resistance adaptation in various fish within normal temperature range & at extreme temperatures.

FAO:glk MF

Lellák, J. (1957) 581511
Z.Fisch., 6:621-33
Der Einfluss der Fresstätigkeit des Fischbestandes auf die Bodenfauna der Fischteiche (The influence of feeding 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

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 Süsswasserschnecken (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

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 Shellfish Sanitation Laboratory, Pensacola, Florida. Experiments concerned with survival of coliform & Salmonella schottmuelleri organisms added in controlled amounts to carboys containing natural sea water at various levels of temperature & salinity (see abstract 580347).
FAO:sjh 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

Lisitzin, E. (1957) 581516
Merentutkimuslait.Julk., (176):102 p.
Vedenkorkeusarvoja 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

Odum, H.P., E.J. Kuenzler & M.X.Blunt (1957) 581517
Biol.Bull., Wood's Hole, 113:323
Uptake of P_{32} in benthic algae in relation to primary productivity

Abstr. of paper presented at the Marine Biological Laboratory, 1957. The rate of uptake of P^{32}, net 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

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

Jonner, 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

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:tl MF

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:tl M

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:tl M

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:tl 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 mμ.
FAO:tl M

Wilbor, 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 electrographically to ascertain whether the average heart-rate varies, inversely with body size.

FAO:tl 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:tl M

Schulman, M.P. & G.A. Lamb (1957) 581526
Biol.Bull., Woos'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 Fe^{59} into heme by varying degree of reticulation of the blood. Following fishes were used: toadfish (Opsanus tau), sea robin (Prionotus carolinus), scup (Stenotomus chrysops), king mackerel, (Scomberomorus regalis), bonito (Sarda sarda), smooth dogfish

Englo, 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:tl M

581526
(Card 2)

(Mustelus canis), spiny dogfish (Squalus acanthias), spotted skate (Raja diaphanes) and dusty shark (Carcharhinus obscurus).

FAO:tl M

Beverton, 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 aeglefinus & G. callarias, Solea 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 fishing - Estimation of parameters - The use

581530
(Card 2)

of thooretical modols in a study of the dynamics and oxploitation of fish populations). Ill., with bibliography, indoxes for author, subject & spocios.

SJH:sjh MF

Torada, K. (1957) 581534
Proc.UNESCO Symp.phys.Occanogr., 1955, Tokyo,:21-5

Measuromont of displacomont by an olectromagnotic dovico and its application to occanographic measuromonts. Fr

Description of somo olectrical wavo & tido measuring instrumonts.

TL:tl M

Böhnocko, G. (1957) 581532
Proc.UNESCO Symp.phys.Occanogr.1955, Tokyo:17-9

Romarks about the mothod of invostigation into occanic circulation. Fr

Roviow of mothods usod in various branchos of occanography.

TL:tl M

Ono, K. (1957) 581535
Proc.UNESCO Symp.phys.Occanogr., 1955, Tokyo,:26-7

The Ono's solf-recording current motor. Fr

Notos on the principlos & construction of the current motor.

TL:tl M

Deacon, G.E.R. (1957) 581533
Proc.UNESCO Symp.phys.Occanogr., 1955, Tokyo,:20

Deep-current measuromonts. Fr

Notos on the use of neutrally buoyant floats for measuring deep currents & some results of the recent measuromonts with these floats.

TL:tl M

Iwasa, K. (1957) 581536
Proc.UNESCO Symp.phys.Occanogr., 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

Vine, 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

Miyake, 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

Joseph, 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 fundaments & 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 & M. Torii (1957) 581546
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 vertical 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

Ichiye, 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 reference to vertical 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 oceanographical significance of coastal studies.

TL:tl M

Miyake, Y. & K. Saruhashi (1957) 581560
Proc.UNESCO Symp.phys.Oceanogr., 1955, Tokyo,:156-9
On the vertical distribution of the dissolved oxygen in the ocean. Fr

The relation between dissolved oxygen & total carbon dioxide in the sea, & the vertical 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

Serène, 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

Quraishi, 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 Kurile Kamchatka Trench & the distribution of sediment types & their characteristics in the north-western Pacific.

TL:tl M

Zenkevich, 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

Zenkevich, 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

Brujewicz, 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

Jaasund, E. (1957) 581579
Bot.Notiser, 110:205-31
Marine algae from northern Norway. II

Taxonomic description of senile algae. Continuation from earlier number of this bulletin.

FAO:tl M

Pape, A. (1957) 581582
Fischwirt, 7:264-6
Die Binnenfischerei Schleswig-Holsteins (Inland fisheries of Schleswig-Holstein)

Value of the inland fish production & the prices. Continuation from earlier number.

FAO:tl

Thomasson, K. (1957) 581580
Bot.Notiser, 110:251-64
Contributions to the knowledge of the plankton in Scandinavian mountain lakes. 4

Description of 5 spp. of Staurastrum, one de nono.

FAO:tjj F

Gray, J. (1957) 581583
Sci.Amer., 197(2):48-54
How fishes swim

Illustrated discussion of implication of recent work on swimming method & speed of various fishes & marine mammals.

FAO:sjh MF

Mann, H. (1957) 581581
Fischwirt, 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.

FAO:tl M

Qureshi, M.R. (1957) 581584
Agric.Pakist., 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.

FAO: MF

Movchan, V.A. (1957) 581585
Priroda, Moskva, 46(8):45-50
Prudovoe rybovodstvo (Pond pisciculture)

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 examplary fish-farming concerns.

FAO:go F

Lamakin, V.V. (1957) 581586
Priroda, Moskva, 46(8):121-2
Interesnaia broshiura o Baikale (Interesting pamphlet on the lake Baikal)

Review of publication by M.M. Kozhov, "Baikal & its life", Irkutskoe knizhnoe izd., 44 p., 1956.

FAO:go F

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

Kiselev, O.N. (1957) 581588
Priroda, Moskva, 46(8):98-9
Podvodnoe televidenie (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

Ogulchansky, A.Y. (1957) 581589
Priroda, Moskva, 46(8):102-4
Nakhodka skeleta iuzhnogo slona na beregu 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

Nosal, A.D. (1957) 581590
Priroda, Moskva, 46(8):104
Poliad v Dnepre (Coregonus polod in the river Dnieper)

Possibility of acclimatization indicated by the good development of a specimen, caught in the Dnieper. 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

American Geological Institute (Publ.) (1957) 581591
Washington, D.C., 325 p.
Glossary of geology and related sciences

Gives definitions, usage & variants of English terms & some in other languages for which there are no English equivalents. Incl. many terms relating to sedimentation.

FAO:sjh MF

Ramirez, M.V. (1957) 581594
Bol.Soc.venezol.Cienc.nat., 18:157-62
Nuevas especies para la fauna ictiologica Venezolana (New species for the ichthyological fauna of Venezuela)

A list of spp. of the families Characidae & Nandidae.

FAO:hr F

Nadaud, J. (1957) 581592
Encyclopédie Casterman, Belgique, 92 p.
Tous les poissons et la pêche (All fishes and fisheries)

A popular illustrated book containing information on marine & fresh water fishes & other aquatic organisms, their environment & fisheries.

FAO:hr MF

Le Danois, E. (1957) 581595
George G. Harrap & Co. Ltd., London, 191 p.
Marine life of coastal waters (Western Europe)

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.

FAO:glk M

Weibezahn, F.H. & M.V. Ramirez (1957) 581593
Bol.Soc.venezol.Cienc.nat., 18:153-6
Mortandad de peces de agua dulce causada por un crustaceo parasito, Artystone trysibia Schioedte, 1866 (Isopoda, Cymothoidae) (Mortality of fresh water fishes caused by a crustacean parasite Artystone trysibia Schioedte, 1866 (Isopoda, Cymothoidae))

A record of the parasite cause of mortality among the freshwater spp. (Aequidens tetramerus, A. pulcher & Mollienesia sphenops), with notes on its parasitic effect on the host & its relation to man.
FAO:hr F

Voight, W., Jr. (1958) 581596
Penn. Angler, 27(4):10-1
Sub-channels

Describes the specifications for low flow channels, a type of improvement device for streams affected by bridge & highway & flood control measures.

GLK:wad

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 (K_2) (The blood sugar of normal carps (K_2) & 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 K_2, by means of the methods according to Hagedorn-Jensen, Neuweiler, & Crocolius-Seifert. 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 roeselii, 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 björkna L.), roach (Leuciscus rutilus L.), rudd (Scardinius erythropthalmus 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 Stoffwechselintensität 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. von Brandt (1957) 581606
Schr. der Bundesforschungsanstalt für Fischerei, Hamburg, 341 p.
Die Fischwirtschaft in der Bundesrepublik 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, marketing & 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 Bundesrepublik 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

Lühmann, (1957) 581608
Arch.FischWiss., 8(1-2):177-8
Biologie der mitteleuropäischen Süsswasserschnecken (Biology of the central European freshwater snail)

Review of publication with the same title by Frömming, E., Verlag Ducker & Humblot, Berlin, 313 p., 1956.

GLK: F

Lühmann, (1957) 581609
Arch.FischWiss., 8(1-2):180
Düngung in der Teichwirtschaft (Fertilization in fish culture)

Review of publication with the same title, by Wunder, W., Tellus-Verlag, Essen, 75 p., 1956.

GLK: F

Fischer, O. (1957) 581610
Verlag von Dietrich Reimer, Berlin, 314 p.
Landgewinnung und Landerhaltung in Schleswig-Holstein. 7. Hydrographie des Küstengebietes (Bonification and maintenance of the land in Schleswig-Holstein. 7. Hydrography of the coastal area)

M

Meyer-Waarden, P.F. (1957) 581611
Arch.FischWiss., 8(1-2):180
Landgewinnung und Landerhaltung in Schleswig-Holstein. 7. Hydrographie des Küstengebietes (Bonification and maintenance of the land in Schleswig-Holstein. 7. Hydrography of the coastal area)

Review of 581610.

GLK: M

Anonymous (1957) 581612
Dansk FiskTid., 75:29-33
Totaludbyttet af det danske fiskeri i 1956 (Total yield of Danish fishery in 1956)

Review of fisheries statistics.

FAO:tl M

Wolle-Strand, L. (1957) 581613
Dansk FiskTid., 75:55
Norge udbygger en havgående fiskeflåde til fjernfiskeri (Norway projects a sea-going fishery fleet for distant fishery)

Notes on the plans of building a off-shore fisheries fleet with factory ships.

FAO:tl M

Anonymous (1957) 581614
Dansk FiskTid., 75:97-100
De fiskeribiologiske undersøgelser 1956 i de indre danske farvande (Fisheries biological investigations during 1956 in the Danish coastal waters)

Review of the investigations on plankton, benthos, flatfish fry, plaice, gadids, eel, salmon & pollution of coastal waters.

FAO:tl MF

A.F. (1957) 581615
Dansk FiskTid., 75:129
Plan om dansk fjernfiskeri med 4 nye storkuttere (Plan on Danish distant fishery with 4 new big cutters)

Notes on the earlier experiences & future plans for expansion of Danish fishery with big vessels to Barents Sea & Greenland waters.

FAO:tl M

Anonymous (1957) 581616
Dansk FiskTid., 75:145-6
Fiskeriundersøgelserne ved Færøerne og i nordligere havområder (Fisheries investigations by Faeroers and in the northern sea areas)

Review of the principal results of Danish investigations in North Atlantic & notes on long-period changes in these waters.

FAO:tl M

Hansen, P. (1957) 581617
Dansk FiskTid., 75:153-5
Store udvandringer af torsk fra farvandene ved Grønland (Great emigration of cod from the Greenland waters)

Notes on the distribution of cod larvae around Greenland & strength of various year-classes of cod.

FAO:tl M

Anonymous (1957) 581618
Dansk FiskTid., 75:155-6
Undersøgelser i de ferske vande (Investigations in the fresh water)

Review of the Danish investigations in inland fisheries & pollution during 1956.

FAO:tl F

Anonymous (1957) 581619
Dansk FiskTid., 75:177
Blødengrund-sildenes vandringer udforskes under norsk ledelse (The migrations of the herrings of Bløden Bank are investigated under Norwegian leadership)

Notes on the plans for international herring investigations in the North Sea.

FAO:tl M

Nielsen, B.R. (1957) 581620
Dansk FiskTid., 75:237-8
Fiskeriforholdene i Chile (Fisheries conditions in Chile)

Short review of the present conditions & future plans for expansion.

FAO:tl M

Birnø, K.E. (1957) 581621
Dansk FiskTid., 75:367-70
Om forureningen af vore vandområder
(On pollution of our water areas)

Review of the pollution of waters incl. coastal areas of the sea & the influence of pollution of fish.

FAO:tl MF

Birnø, K.E. (1957) 581622
Dansk FiskTid., 75:379-81
Forurenede fiskevande og opklaring af foreliggende forureningsårsager
(Polluted fish-waters & determination of the causes of pollution)

Notes on the possible sources of pollution & ways of locating the source.

FAO:tl F

Jensen, A.J.C. (1957) 581623
Dansk FiskTid., 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)

Notes on the influence of the temperature of the metamorphosis of eel before spawning migration.

FAO:tl MF

Anonymous (1957) 581624
Dansk FiskTid., 75:498
Nyt havbiologisk institut fra nytår
(New marine biological institute in the new year)

Notes on the establishment of new institute in Helsingør under the leadership of Dr. G. Thorsson.

FAO:tl M

Bertelsen, E. (1957) 581625
Dansk FiskTid., 75:565-8
De internationale sildemærkninger i Nordsøen (The international tagging of herring in the North Sea)

Review of the programme & notes on preliminary results of recapture.

FAO:tl M

Meyer-Waarden, P.F. (1957) 581626
Fish.Stud., F.A.O., (7):78 p.
Electrical fishing

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.

SJH:sjh

Tscob, Ya.Ya.,(1958) 581627
Zool.Zh., 37:3-12
Sostav i rolichestvonnoe razvitie fauny mikrobentosa nizoviov Dnepra i vodoemov Kryma (Composition & quantitative development of microbenthal fauna in the down stream of the Dnieper & in the bodies of water of the Crimea). En

Results of quantitative study of benthos in the river Dnieper & water reservoirs of Crimea & Kakhovka.

FAO:tl F

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 Banse (Phyllodocidae), Pterosyllis formosa Claparède, Eusyllis lamelligera Marion et Bobretzky, Autolytus prismaticus (O. Fabricius), A. prolifer (O.F. Müller) (Syllidae), Polydora ciliata ciliata (Johnston) (Spionidae), Dodecaceria concharum Oersted (Cirratulidae), Heteromastus filiformis (Claparède) (Capitellidae), & Nicomache minor Arwidsson (Maldanidae).
FAO:tl M

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

Ovchinnikova, T.I. (1958) 581630
Zool.Zh., 37:131-4
O zarazhennosti molliuska Bithynia leachi Schopp. i karpovykh ryb lichinochnymi stadiiami Opisthorchis felineus (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 felineus (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 Pissarev district, Sumy-region (on the Vorskla R.) has

581630
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shown the presence of larval forms of Opisthorchis felineus (Rivolta, 1884) in these intermediate hosts.

FAO:tl F

Bauer, 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 Pathologů. Red.Hanzal J., Praha, 1956), on diseases, parasites & enemies of fish, causes & remedies, breeding, hypophisis injections, fish-marking, pond maintenance, food, inter-breeding, selection.

FAO:go MF

Lange, A.B. (1958) 581633
Zool.Zh., 37:151-6
Vtoroe soveshchanie embriologov SSSR (Second conference of USSR embryologists)

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.

FAO:go

Orloff, G. (1958) 581634
Curr.Bibliogr.Fish.Sci., 1(5):Suppl.1-4
Second conference of embryologists of the USSR

Abridged translation of 581633.

FAO:

Nikolskii, G.V. (1958) 581635
Zool.Zh., 37:158-60
Vtoroi plenum mezhdunarodnoi komissii po rybokhoziaistvennym issledovaniam v zapadnoi chasti Tikhogo okeana (Second meeting of the International Commission for Fishery Research in the Western Pacific)

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.

FAO:go M

Orloff, G. (1958) 581636
Curr.Bibliogr.Fish.Sci., 1(5):Suppl.4-5
Second meeting of the International Commission for Fishery Research in the Western Pacific

Abridged translation of 581635.

FAO: M

Lindberg, G.U. (1958) 581637
Zool.Zh., 37:146-7
Morfologia i sistematika ryb (Fish morphology and hierarchy)

Review of original publication with the same title by Matsubaru, K., Ishizaki-Shoten, Tokyo, 1955, 1605 p.

FAO: MF

Raikova, E.V. (1958) 581638
Zool.Zh., 37:345-58
Zhiznennyi tsikl Polypodium hydriforme Ussov (Coelenterata) (The life cycle of Polypodium hydriforme Ussov (Coelenterata). En

Parasite of sturgeon eggs feeding yolk. Study of its development with the scope of finding remedies. Prophylactic measures recommended.

FAO:go F

Kirianova, E.S. (1958) 581639
Zool.Zh., 37:359-72
Stroenie kopuliativnogo apparata samtsov presnovodnykh volosatikov (Nematomorpha, Gordioidea) (On the structure of the copulative organs of males of the freshwater hairworms (Nematomorpha, Gordioidea)). 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 pribrezhnykh 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

Mikailov, T.K. (1958) 581640
Zool.Zh., 37:373-8
Parazitofauna kefali 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 mullets in their natural habitat.

FAO:go M

Alcev, 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 Pleuronectiformes, 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 prisposobitelnom znachenii izmenchivosti vesa segoletkov 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 nizovicv 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. Petrushevskii (1958) 581645
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., Pseudalelloides bengalensis n.g., n.sp., Steinerla pilosa (Cobb 1914) var. brevistosa n.var., Theristus (Mesotheristus) 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 issledovaniiakh v Estonskoi SSR (Zoological research in the Estonian SSR)

Activity of scientific bodies & zoologists in Estonia. Authors & titles of publications dealing with hydrobiology & ichthyology.

FAO:go MF

Stephens, R.C., R.L. Fisher & R.G. Miller (1957) 581649
Trans.N.Amer.Wildl.Conf., 22445-57
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.

M.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 simmetrically 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.

FiB:hr M

Stock, J.H. (1957) 581651
Bull.Sea Fish.Res.Sta., Haifa, (13):13-4
Contributions to the knowledge of the Red Sea. 2. Pycnogonida from the Gulf of Aqaba

Taxonomic notes on Rhopalorhynchus podunculatum & Ammothella appendiculata (Dohrn).

SJH:sjh M

Homson, J. (1958) 581652
Ost.Fisch., 11:50-6
Über die Biologie des Aales (On the biology of eels)

Summary of the life history & migrations of the european eel.

FAO:tl MF

Demoll, R. (1957) 581653
Springer-Verlag, Berlin, 142 p.
Früchte des Meeres (Fruits of the sea)

M

E.B. (1958) 581654
Ost.Fisch., 11:66-7
Früchte des Meeres (Fruits of the sea)

Review of 581653.

M

Chow, L. (1958) 581655
News Lett.I.R.C., 7(1):1-7
Rotational irrigation for rice - a revolution in Taiwan

FAO: F

Bulanadi, J. & P.B.Aldaba (1958) 581656
News Lett.I.R.C., 7(1):7-10
Effects of water depth on the growth and yield of lowland rice

F

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

Anonymous (1958) 581658
News Lett., I.R.C., 7(1):14-5
Time and methods of application of urea

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

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

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

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, 7C: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

Newell, B.S. (1957) 581667
E.Afr.agric.J., 23:127-9
The nocturnal reduction of dissolved oxygen in dams

F

Serenkov, 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.Leedal (1957) 581668
Rec.geol.Surv.Tanganyika, 3:54-7
The waters of lake Duluti

F

Barker, F.B. & L.L. Thatcher (1957) 581669
Analyt.Chem., 29:1573-5
Modified determination of radium in water

F

Deolalkar, S.T. & Kamala Sohonie (1957) 581672
Indian J.med.Res., 45:571-86
Thiaminase from fish. I. Properties of thiaminase

F

Thatcher, L.L. & F.B. Barker (1957) 581670
Analyt.Chem., 29:1575-8
Determination of uranium in natural waters

F

Deolalkar, S.T. & Kamala Sohonie (1957) 581673
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. Lindston (1957) 581671
Ind.Eng.Chem., 49:1725-6
Removal of radioactive contaminants from water by ion-exchange slurry

F

Nigrelli, 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 & A.M. Brandon (1957) 581678
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. iota

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 germ-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, methylurea, ethylene glycol, acetamide & propionamide.

:tl F

Migita, M. & J.J. Matsumoto (1957) 581680
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 pancreatic 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

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

Waldschmidt-Leitz, E. & H. Gudernatsch (1958) 581683
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 harengus has been studied.

:tl M

Jančařik, A. (1957) 581684
Ann.Acad.tchécosl.Agric., 2:657-70
Physiology of the digestion in the carp. II. Digestion of starch by the endogenous enzymes of the carp

F

Jančařik, A. (1957) 581685
Ann.Acad.tchécosl.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

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 ratos, analyses catch composition from each method & discusses the evidence of yellowfin abundance from this work.

GLK:glk M

Votintsev, K.K. (1958) 581687
Zool.Zh., 37:287-90
O roli temperaturnogo faktora v formirovanii planktonnykh kompleksov ozera Baikal (The function of temperature in the development of the plankton complex of the lake Baikal). En

Arguments against data collected & conclusions drawn on the decisive function of temperature in the development & composition of plankton.

FAO:go F

Gurvich, V.F. (1958) 581690
Zool.Zh., 37:294-7
Novyi vid roda Cyclops O.F. Müll. (Crustacea Copepoda) iz ozera Kara-Kul (Pamir) (New species of the genus Cyclops O.F. Müll. (Crustacea Copepoda) found in lake Kara-Kul (Pamir)). En

Cyclops pamirensis, inhabiting lake Kara-Kul, related to, but slightly differing from species found in Tibetian lakes.

FAO:go F

Koreneva, T.A. (1958) 581688
Zool.Zh., 37:290-1
Kolovratka, parazitiruinshchaia v kladkakh Tendipedid (Rotifers, parasites of Tendipedidae roe). En

Both adult rotifers & their eggs where found inside Tendipedidae egg clutches. Rotifers attack spawn deposited along the shore.

FAO:go F

Nasimovich, A.A. (1958) 581691
Zool.Zh., 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)

Criticism & indication of errors found in the dictionary by B.N. Usovsky, N.V. Gominova, T.A. Krasnselskaia, E.P. Kopeshinskaia, Gos.Izd.Tekniko-Teoriticheskoi Literatury, Moscow, 1956.

FAO:go

Savilov, A.I. (1958) 581689
Zool.Zh., 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

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.

FAO:go M

Kuderskii, L.A. (1958) 581692
Zool.Zh., 37:495-503
K voprosu o mnogoletnikh izmeneniiakh biologicheskikh svoistv bespozvonochnykh Belogo moria (Long-term alterations of biologic properties of White Sea invertebrates). En

Arguments against data & his conclusions, stated by V.V. Kuznetsov in Zool.Zh., 36(4) on degeneration of certain molluscs.

FAO:go M

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 galatheae 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 nyne 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-morfologicheskae tolkovanie organizatsii Neopilina galatheae Lemche (Early evolution of molluscs. Organic structure of Neopilina galatheae 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

Akhmerov, A.Kh. & I.P. Martianova (1958) 581699
Zool.Zh., 37:619-21
K metodike opredeloniia slizistykh sporovikov roda Chloromyxum, Mingazzini, 1890 (Methods for identifying Myxosporidia of the genus Chloromyxum Mingazzini, 1890). En

Brief description of methods used & possible improvements by way of fixing & colouring spores of Chloromyxa.

FAO:go F

Pirozhnikov, P.L. (1958) 581702
Zool.Zh., 37:625-9
Ob areale i ekologii kopopody Sonecella calanoides Juday (Geographical range & ecology of Senecella calanoides Juday). En

Description & relation to other spp. Value of this copepod & advisability of its transplantation.

FAO:go MF

Palii, M.A. (1958) 581700
Zool.Zh., 37:622
Parazit shchuki Philometra (Filaria) obturans Prenant (Philometra (Filaria) obturans Prenant, a parasite attacking pikes). En

Behaviour, effect & geographical distribution of the parasite.

FAO:go F

Hedley, R.H. (1958) 581703
Nature, Lond., 181:1440-1
Mr. Arthur Earland

Obituary of this marine zoologist, a specialist on foraminifera.

GLK:sjh M

Bogoslovskii, A.S. (1958) 581701
Zool.Zh., 37:622-5
Dva novykh vida kolovratok - Paradicranophorus verae, sp. n. i Lecane chankensis, sp. n. (Two new species of rotifers - Paradicanophorus verae, sp. n. & Lacane chankensis, sp. n.). En

Description of both spp., one found in the White Sea, the other in lake Khanka. Relation to known spp.

FAO:go MF

Kawai, K. (1958) 581704
Nature, Lond., 181:1468
Cytochrome system in oyster tissues

Describes experiments with Crassostrea gigas.

GLK:wad M

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 Helix, 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 of Census & Statistics (1957) 581710
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 those 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

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

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 & redermination of the factor for conversion of oxygen consumption to phosphate liberation.

GLK:tl M

Steele, J.H. (1957) 581714
J.Mar.biol.Ass.U.K., 36:233-41
A comparison of plant production estimates using ^{14}C and phosphate data

Comparison of the study of the change of phosphate content of a water column & the C^{14} 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

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

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

Nicol, J.A.C. (1957) 581717
J.Mar.biol.Ass.U.K., 36:271-3
Luminescence in polynoids. III. Propagation of excitation through the nerve cord

Experiment with Gattyana.

GLK:sjh M

Carlisle, D.B. (1957) 581720
J.Mar.biol.Ass.U.K., 36:291-307
On the hormonal inhibition of moulting in decapod crustacea. II The terminal anecdysis in crabs

Endocrinological assays in Carcinus maenas & Maia squinado. Notes on mortality and feeding.

CLK:sjh M

Russell, F.S. (1957) 581718
J.Mar.biol.Ass.U.K., 36:275-9
On a new species of scyphomedusa, Atolla vanhöffeni n. sp.

Description of distribution of A. wyvillei.

GLK:sjh M

Dales, R.P. (1957) 581721
J.Mar.biol.Ass.U.K., 36:309-16
Some quantitative aspects of feeding in sabellid and serpulid fan worms

Rates of filtration studied for several spp. of differing sizes, using graphite suspensions & algal cultures. Comparisons with Chaetopterus & other invertebrates.

GLK:sjh M

Gotto, R.V. (1957) 581719
J.Mar.biol.Ass.U.K., 36:281-90
The biology of a commensal copepod, Ascidicola rosea Thorell, in the ascidian Corella parallelogramma Müller

Study of feeding activities & reproductive behaviour.

GLK:sjh M

Armstrong, F.A.J. (1957) 581722
J.Mar.biol.Ass.U.K., 36:317-21
Phosphorus and silicon in sea water off Plymouth during 1955

Temperatures & salinity, phosphate, total phosphorus & silicate analyses of water from the International Hydrographic Station E I during 1955 are discussed. The seasonal variation is shown & some irregularities are pointed out.

GLK:tl M

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, Hexelasma 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 Pleuronectes 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 correlation 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. Boney & E.D.S. Corner (1957) 581727
J.Mar.biol.Ass.U.K., 36:383-405
The adaptations of Lasaea 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 nereid 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

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

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

Alm, G. (1957) 581738
Rep.Inst.Freshw.Res.Drottning, (38):5-69
Avkastningen av gädd- och abborrfiskot 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. (Esox 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

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

Lindroth, A. (1957) 581740
Rep.Inst.Freshw.Res.Drottning,(38):109-30
Baltic salmon fluctuations: a reply

Being largely a discussion of a paper by Svärdson, 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, lavaretus, oxyrhynchus, peled, 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 intermediate 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 subclass Cephalocarida, as exemplified by Hutchinsoniella.

HR:glk M

Racek, A.A. (1957) 581751
Res.Bull.St.Fish., N.S.W., (3):19 p.
Penacid prawn fisheries of Australia with special reference to New South Wales

Account of the history & problems of penacid 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, & biochemical 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 urotaenia, & varying the length of the tank.

SJH:sjh F

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

Kusaka, T. (1957) 581755
Bull.Jap.Soc.sci.Fish., 22:668-73
(Experiments to see the effect of colour on nets by the contralizing method and the driving to one side method). Ni En

Locomotion of Carassius auratus in tanks in relation to moving vertical screens of 5 vinyle tubes of different colours & transparencies. Results compared with previous experiments of relation of net efficiency to thread colour.

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

Inoue, M. (1957) 581757
Bull.Jap.Soc.sci.Fish., 23(1):9-11
(Study on fishing abilities of sardine beach seine on Kujūkuri-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

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 Cleisthenes 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

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

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, Millor-Sibata's ferrous, Winkler-Sugawara's CO_2, & Van Slyke'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

Stjerna-Pooth, J. (1957) 581762
Rep.Inst.Freshw.Res.Drottning,(38):247-66
Achlya prolifera als Abwasserpilz in einem mittelschwedischen Wasserlauf (Achlya prolifera as a saprolegnia 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

Svärdson, G. (1957) 581763
Rep.Inst.Freshw.Res.Drottning,(38):357-84
Laxen 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

Wallin, O. (1957) 581764
Rep.Inst.Freshw.Res.Drottning,(38):385-447
On the growth structure and developmental 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 arsenike, 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 associations, 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 those changes.

TL:tl M

Taylor, C.C., H.B. Bigelow & H.W. Graham (1957) 581770
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 fluctuations over 130 years; lobster menhaden Morluccius 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

Ananiadés, C.I. (1957) 581771
Proc.gen.Fish.Coun.Medit., (4):33-6
Lethal effects of chlordane on carps. Fr

Describes the effect of chlordane on carps in rice fields & in experimental tanks. Comparison is made with D.D.T.

FiB:hr F

Montoiro, R. (1957) 581772
Proc.gen.Fish.Coun.Medit., (4):37-42
Études 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-DUTHIERS.

FiB:hr M

Oliver, M. (1957) 581773
Proc.gen.Fish.Coun.Medit., (4):51-62
Biologie de la sardine des Baléares (frai, alevinage et développement au cours de la première année) (Biology of the sardine of the Balearic Islands (spawning, hatching and growth during the first year)). En

Contents as per title.

FiB:hr M

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

Nümann, W. (1957) 581775
Proc.gen.Fish.Coun.Medit., (4):69-74
Les résultats des expériences de marquage sur les pélamides et les maquereaux 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

Sommani, E. (1957) 581776
Proc.gen.Fish.Coun.Medit., (4):75-8
Introduction en Italie des boîtes d'alevinage: application, limites et possibilités 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 Appenines 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

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

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

Larrañeta, M.G. (1957) 581780
Proc.gen.Fish.Coun.Medit., (4):109-12
Présence du parasite Peroderma cylindricum Heller sur la sardine de Castellón et d'Alicante (Presence of Peroderma 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

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

Demir, 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 pollution (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

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 pilchardus 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

Vučetić, T. (1957) 581791
Proc.gen.Fish.Coun.Medit., (4):227-33
Quelques observations sur l'écologie de la ponte de l'anchois (Engraulis encrasicholus L.) dans les lacs de l'île de Mljet (Some observations on the ecology of the spawning of anchovy (Engraulis 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

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

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

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 repeuplement des salmonidés dans le lac de Garde (Fisheries and restocking of the lake of Garda with salmonid species). En

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 MP

Perlmutter, A., L. Bograd & J. Pruginin (1957) 581798
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 MP

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 pilchardus Walb.) of the Tyrrhenian 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

Komarovsky, B. & L. Schwartz (1957) 581801
Proc.gen.Fish.Coun.Medit., (4):347-61
A study of marine antifouling paints in Israel. Fr

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.

FiB:hr M

Fried, Z. (1957) 581802
Proc.gen.Fish.Coun.Medit., (4):363-9
Underwater study of the Italian type trawl gear. Fr

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.

FiB:hr M

Svetina, M. (1957) 581803
Proc.gen.Fish.Coun.Medit., (4):377-81
L'ombre et sa reproduction artificielle (The grayling and its artificial spawning). En

After having dealt with the biology of the grayling (Thymallus vulgaris Nils.) & considered the importance of that fish, the author describes the technique applied for artificial spawning.

FiB:hr F

Ben-Tuvia, A. (1957) 581804
Proc.gen.Fish.Coun.Medit., (4):383-91
Pelagic fisheries in Israel. Fr

Sardinella aurita 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.

FiB:hr M

Santos Pinto, J. dos & B. Andreu (1957) 581805
Proc.gen.Fish.Coun.Medit., (4):393-411
Echelle pour la caractérisation des phases évolutives de l'ovaire de sardine (Sardina pilchardus Walb.) en rapport avec l'histophysiologie de la gonade (Scale for the determination of evolutive phases of sardine (Sardina pilchardus Walb.) ovaries in connection with the histophysiology of the gonad). En

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.

581805 (Card 2)

The authors propose a new scale of 6 phases applying to the sardine.

FiB:hr M

Catić, 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 secondare importance. However, dried yeast (Vitamin B) has a favourable action & can be used when the quantity of plankton is not sufficient.

FiD:hr 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

Ahlstrom, E.H. & D. Kramer (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 diego, Merluccius productus & Sebastodes spp.

GLK:glk M

Wüst, G. (1957) 581810
Kieler Meeresforsch., 13(2):163-85
Ergebnisse eines hydrographisch-produktionsbiologischen 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

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

Legand, M. (1957) 581812
Rapp.sci.Sect.Océanogr.franç.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 & correlations with C_{14} 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, Uronascopidae, Scombridae, Carangidae, Acronuridae & Pomatomidae.

FiB:hr M

Bourrelly, 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

Mousset, 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

Bourrelly, 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 fingerlings of Atherina presbyter.

FiB:hr M

Lebouché, A.-M. (1957) 581818
Bull.Cent.Etud.Rech.sci., Biarritz, 1: 601-35
Etude des glucides de Caulacauthus ustulatus (Mert.) Kütz (A study of glucosides of Caulacauthus 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

Khartoum, University. 581819
Hydrobiological Research Unit (1957)
The Middle East Press, Khartoum, 32 p.
Fourth annual report of the Hydrobiological Research Unit

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.

GLK:sjh F

Gay, P.A. (1957) 581822
Rep.hydrobiol.Res.Unit, Sudan, (4):10-20
Survey of work in progress - Some aspects of the riverain flora of the White Nile and the Bahr el Ghazal

Report on observations made during expedition December 1956. Papyrus distribution; sedimentation.

GLK:sjh F

Talling, J.F. (1957) 581820
Rep.hydrobiol.Res.Unit, Sudan, (4):6-8
Survey of work in progress - Some physical, chemical & algological aspects of Nile hydrobiology: a retrospect

Brief review of work, indicating unsolved problems.

GLK:sjh F

Rzoska, J. (1957) 581823
Rep.hydrobiol.Res.Unit, Sudan, (4):20-4
Survey of work in progress - Zooplankton studies

New crustaceans found in the Nile; sexuality & population structure of Daphnia & Cyclops spp., fish fry occurrences.

GLK:sjh F

Rzoska, J. (1957) 581821
Rep.hydrobiol.Res.Unit, Sudan, (4):8-10
Survey of work in progress - Conductivity of Nile waters

Table of observations obtained, December, 1956.

GLK:sjh F

Nawar, G. (1957) 581824
Rep.hydrobiol.Res.Unit, Sudan, (4):24-7
Survey of work in progress - Preliminary investigations on breeding times of some Nile fishes

Occurrence of larvae of spp. of Mormyrus Labeo, Barbus, Auchenoglanis, Utropius, Hydrocyon, Tilapia, Alestes, Chelaethiops & other genera.

GLK:sjh F

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

Rovello, R. & M.B. Schaefer (1957) 581828
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 radioactive materials in the sea, & the physical & biological processes affecting the distribution of radioactive materials in the sea; short account of major insolved problems is also added.
SJH:tl M

Hallgrímsson, I. (1957) 581826
Náttúrufraedingnum, 27:173-85
Dýrasvifid í sjónum (Zooplankton in Icelandic waters). En

Outline of the main features of the zooplankton 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 radioactive 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 celata, C. vastifica, C. schmidti, C. albicans, C. viridis, C. vermifera, C. rovignonsis, 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

Herlinveaux, 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

Barber, 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

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

Alderdice, D.F. & J.R. Brett (1957) 581835
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 terodo (Bankia sp.) in logs being transported by sea.

GLK:sjh MF

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 Ariake 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 (especially 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) - Compte-rendu des séances (Colloquium by the Bentho 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

Walford, L.A. 581376 581386
Wallace, G.M., L.E. Newman & J.L. Jerrome 581483
Wallin, O. 581764
Watanabe, N. 581545
Watanabe, R. 581547
Weenink, M.P.H. 581256
Weibezahn, F.H. & M.V. Ramirez 581593
Welle-Strand, E. 581373 581613
Wells, J. 581730
Wells, M.J. & J. Wells 581730
Went, A.E.J. 581404
Weston, D.E. 581194
Wiborg, K.F. 581752
Wieser, W. 581463
Wilber, C.G. 581525
Wilimovsky, N.J. & W.O. Freihofer 581183
Wilkins, C.H. 581196
Wilsen, T.H. 581528
Wise, J.P. 581241
Wisner, R.L. 581461
Wolf, R.S. 581397
Woods, K.R. 581529
Worrall, G.A. 581419
Wüst, G. 581255 581288 581810
Wundsch, 581513
Wyttenbach, C. 581490

Yonge, C.M. 581485
Yoshida, H.O. 581686
Yoshida, K. 581548 581566
Young, F.N. 581709
Yount, J.L. 581322

Zaletaiev, V.S. 581434
Zarnecki, St. 581503
Zelikman, E.A. 581351
Zenkevich, L.A. 581573 581575
Zippin, C. 581317

Anonymous 581187 581188 581331 581363 581364 581365 581368 581369 581370 581371 581481 581482 581612 581614 581616 581618 581619 581624 581658 581662 581694 581841

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

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 - Paramocuim cilia - Paramocium cilia
580754 - rhodophycae - Rhodophycae
580931 - will se_ daylight - will see daylight
581006 - Limnonia - Limnoria
581102 - Mutilus - Mytilus
580730 - Chthalmus - Chthalamus
580804 - Ponogophora - Pogonophora
581107 - Palamii - Pallasii
581359 - grayfish - crayfish
581689 - Chelyosoma - Cholyosoma

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. Downing (1957) 580884
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

FAO/58/9/6635

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) Pterottrissidae
(5) Clupeidae
(6) Engraulidae
(7) Alepocephalidae
(8) Dolichopterygidae
(9) Macristiidae

1,22 CHIROCENTROIDEI. CHANOIDEI. PHACTOLAEMOIDEI. CROMERIOIDEI
(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
ANOTOPTEROIDEI
(1) Pantodontidae
(2) Anotopteridae

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 ATELEOPIFORMES
(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

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1,70
(72) Trichodontidae
(73) Opisthognathidae
(74) Owstoniidae
(75) Bathymasteridae
(76) Mugiloididae
(77) Chimarrhichthyidae
(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) Xiphisteridae
(10) Stichaeidae
(11) Pholidae
(12) Lumpenidae
(13) Microdesmidae
(14) Ptilichthyidae
(15) Zoarcidae
(16) Lycodapodidae
(17) Derepodichthyidae
(18) Scytalinidae
(19) Zaproridae
(20) Schindleriidae

1,72 OPHIDIOIDEI. 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) Cottocomephoridae
(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) Dichelesthiidae
(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 CIRRIPEDIA

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 TANAIDACEA
(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) Hyperiidae
(2) Phronimidae
(3) Lysianassidae
(4) Talitridae
(5) Haustoriidae
(6) Ampeliscidae
(7) Calliopiidae
(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) Bentheuphausiidae

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) Callianassidae
(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) Columbellidae
(7) Nassidae
(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) Vermetidae
(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) Bullidae
(6) Philinidae
(7) Aglajidae
(8) Tethyidae
(9) Spiratellidae
(10) Cavolinidae
(11) Clionidae
(12) Scyllaeidae
(13) Dendronotidae
(14) Polyceratidae
(15) Doridiidae
(16) Aeolidiidae
(17) Dotonidae
(18) Hermaeidae
(19) Elysiidae
(20) Limapontiidae
(21) Phyllirhoidae

3,12 PULMONATA

3,13 BASOMMATOPHORA
(1) Ellobiidae
(2) Lymnaeidae
(3) Planorbidae
(4) Ancylidae
(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) Crytobranchidae
(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
(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) Diomedeidae
(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 1,01]

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 4]

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) Corallidae
(2) Stylatulidae
(3) Sagartiidae

6,20 CTENOPHORA

6,21 TENTACULATA
(1) Pleurobrachiidae

6,22 NUDA
(1) Beroidae

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) Hemiuridae

6,28 CESTOIDEA

6,29 CESTODARIA
(1) Amphilinidae
(2) Gyrocotylidae

6,30 CESTODES
(1) Onchobothriidae
(2) Proteocephalidae
(3) Dibothriorhynchiidae
(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) Ammocharidae
(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) Palmellaceae

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) Mesotaeniaceae
(2) Zygnemaceae
(3) Mougeotiaceae
(4) Gonatozygaceae

7,16 DESMIDIOIDEAE
(1) Desmidiaceae

7,17 SIPHONALES
(1) Protosiphonaceae
(2) Caulerpaceae
(3) Derbesiaceae
(4) Dasycladaceae
(5) Codiaceae
(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) Ophiocytiaceae

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) Coccolithophoridaceae
(7) Synuraceae
(8) Ochromonadaceae

7,32
(9) Monadaceae
(10) Lepochromonadaceae
(11) Prymnesiaceae
(12) Rhizochrysidaceae
(13) Lagyniaceae
(14) Chrysocapsaceae
(15) Naegeliellaceae
(16) Hydruraceae

7,33 CHRYSOSPHAERALES
(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) Biddulphioideae
(4) Rutilarioideae

7,43 PENNALES
(1) Fragilarioideae
(2) Eunotioideae
(3) Achnanthoideae
(4) Naviculoideae
(5) Epithemioideae
(6) Nitzschioideae
(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 DINOPHYSIALES
(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) Amphilothaliaceae
(2) Kolkwitziellaceae
(3) Glenodiniaceae
(4) Protoceratiaceae
(5) Gonyaulaceae
(6) Peridiniaceae
(7) Ceratiaceae
(8) Goniodomaceae
(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 NEMALIONALES
- (1) Acrochaetiaceae
- (2) Batrachospermaceae
- (3) Lemaneaceae
- (4) Naccariaceae
- (5) Bonnemaisoniaceae
- (6) Thoreaceae
- (7) Helminthocladiaceae
- (8) Chaetangiaceae

7,85 GELIDIALES
- (1) Gelidiaceae

7,86 CRYPTONEMIALES
- (1) Gloeosiphoniaceae
- (2) Endocladiaceae
- (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) Rissoellaceae
- (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) Delesseriaceae
- (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) Loefgreniaceae
(5) Stigonemataceae

7,99 MISCELLANEOUS

Note: - Subdivisions with aquatic forms are indicated by an asterisk

8, FUNGI (incl. BACTERIA). VIRUSES

8,00 FUNGI - GENERAL

8,01 BACTERIA *

8,11 ACTINOMYCETALES

8,21 MYXOMYCETES

8,22 ACRASIALES

8,23 LABYRINTHULALES *

8,24 PLASMODIOPHORALES

8,25 PHYSARALES

8,26 STEMONITALES

8,27 LICEALES

8,28 TRICHIALES

8,31 EUMYCOPHYTA

8,32 PHYCOMYCETES

8,33 CHYTRIDIALES *

8,34 LAGENIDIALES *

8,35 BLASTOCLADIALES *

8,36 MONOBLEPHARIDALES *

8,37 SAPROLEGINALES *

8,38 LEPTOMITALES *

8,39 PYTHIALES *

8,40 PERONOSPORALES

8,41 MUCORALES

8,42 ENTOMOPHTHORALES *

8,45 ENDOGONALES

8,47 ECCRINALES *

8,51 ASCOMYCETES

8,52 SACCHAROMYCETALES

8,53 TAPHRINALES

8,54 ASPERGILLALES *

8,55 MYRIANGIALES
(1) Pseudosphaeriaceae

8,56 PERISPORIALES

8,57 LABOULBENIALES

8,58 SPHAERIALES *

8,59 DOTHIDEALES *

8,60 HYPOCREALES

8,61 HYSTERIALES *

8,62 HEMISPHAERIALES

8,63 HELOTIALES

8,64 PHACIDIALES

8,65 PEZIZALES

8,66 HELVELLALES

8,67 TUBERALES

8,70 ASCOLICHENES

8,71 BASIDIOMYCETES

8,72 USTILAGINALES

8,73 UREDINALES

8,74 AURICULARIALES

8,75 TREMELLALES

8,76 DACRYOMYCETALES

8,77 AGARICALES

8,78 HYMENOGASTRALES

8,79 PODAXALES

8.80 PHALLALES

8.81 LYCOPERDALES

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 ANDREAEALES

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

9,60 SALICALES

9,61 BATIDALES

9,62 URTICALES

9,63 PIPERALES

9,64 PROTEALES

9,65 SANTALALES

9,66 POLYGONALES

9,67 CENTROSPERMAE

9,68 TRICOCCAE

9,69 HAMAMELIDALES

9,70 POLYCARPICAE
(1) Ranunculaceae
(2) Nymphaeaceae

9,71 RHOEADALES
(1) Cruciferae

9,72 PARIETALES

9,73 GUTTIFERALES

9 74 ROSALES

9,75 MYRTALES
(1) Halorrhagidaceae

9,76 COLUMNIFERAE

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

9,84 BICORNES

9,85 DIOSPYRALES

9,86 TUBIFLORAE
(1) Lentibulariaceae
(2) Labiatae
(3) Plantaginaceae

9,87 CONTORTAE

9,88 LIGUSTRALES

9,89 RUBIALES

9.90 CUCURBITALES

9.91 SYNANDRAE
(1) Compositae
(2) Lobeliaceae

9,97 AQUATIC EMBRYOPHYTES

9,99 MISCELLANEOUS

Taxonomic Code - Alphabetic Index

CAPRIMULGIFORMES	5,73
Caproidae	1,62 (3)
Caproini	1,62 (3)
Capsosiraceae	7,96 (2)
Capulidae	3,10 (2)
Caracanthidae	1,78 (3)
Carangidae	1,70(23)
(Carapidae)	1,72 (3)
Carcharhinidae	1,08 (2)
(Carchariidae)	1,08 (2)
(Carcharinida)	1,08
Cardiidae	3,17 (9)
Carditidae	3,17 (2)
Carettochelyidae	5,31(10)
Carinariidae	3,10(21)
Caristiidae	1,61 (4)
CARNIVORA	4,04
Cassididae	3,10(19)
Castoridae	4,16(1)
CASUARIIFORMES	5,54
Catostomidae	1,40 (1)
CAUDATA	5,03
Caulerpaceae	7,17 (2)
Caulolepidae	1,61 (7)
Caulophrynidae	1,96 (9)
Cavolinidae	3,11(10)
(Cebedichthyidae)	1,71(10)
CELASTRALES	9,79
(Centraciontidae)	1,04 (1)
CENTRALES	7,42
Centrarchidae	1,70(10)
Centrechinidae	6,93 (1)
Centriscidae	1,51 (4)
Centropagidae	2,10 (2)
Centropomidae	1,70 (1)
CENTROSPERMAE	9,67
(Cephalacanthidae)	1,79 (1)
CEPHALODISCIDA	5,93
CEPHALOPODA	3,19
(Cephalopteridae)	1,10 (8)
Cepolidae	1,70(60)
Ceramiaceae	7,89 (1)
CERAMIALES	7,89
Ceratiaceae	7,67 (7)
Ceratiidae	1,96 (8)
CERATIOIDEI	1,96
Ceratocoryaceae	7,67 (9)
Ceratodidae	1,13 (1)
CERATODIFORMES	1,13
(Cerdalidae)	1,71(13)
Cerithiidae	3,10(10)
Cerithiopsidae	3,10(11)
Certhiidae	5,79 (8)
CESTODARIA	6,29
CESTODES	6,30
CESTOIDEA	6,28
Cetomimidae	1,32 (9)
Cetorhinini	1,07 (3)
CETACEA	4,21
Chacidae	1,41(15)
Chaenichthyidae	1,70(94)
Chaetangiaceae	7,84 (8)
Chaetodermatidae	3,02 (3)
(Chaetodipteridae)	1,70(49)
Chaetodontidae	1,70(52)
CHAETOGNATHA	6,45
Chaetophoraceae	7,12 (1)
CHAETOPHORALES	7,12
Chaetosiphonaceae	7,17 (7)
Chaetosphaeridiaceae	7,12 (4)
Chamaeidae	5,79 (9)
Chamaesiphonaceae	7,93 (2)
CHAMAESIPHONALES	7,93
(Chamnichthyidae)	1,70(94)
Champiaceae	7,88 (1)
Champsodontidae	1,70(89)
Chanidae	1,22 (2)
(Channidae)	1,67 (1)
CHANOIDEI	1,22
Characeae	7,18 (1)
(Characidae)	1,38 (1)
Characinidae	1,38 (1)
CHARACINOIDEI	1,38
(Characondontidae)	1,57 (4)
CHARADRIIFORMES	5,68
CHARALES	7,18
Chaudhuriidae	1,85 (1)
CHAUDHURIIFORMES	1,85
Chauliodontidae	1,25 (4)
Chaunacidae	1,95 (4)
CHELONETHIDA	6,60
CHELONIA	5,31
Cheloniidae	5,31 (7)
Cheluridae	2,24(12)
Chelydidae	5,31 (9)
Chelydridae	5,31 (2)
Chiasmodontidae	1,70(90)
Chilodactylidae	1,70(70)
Chimaeridae	1,12 (1)
CHIMAERIFORMES	1,12
Chimarrichthyidae	1,70(77)
Chirocentridae	1,22 (1)
CHIROCENTROIDEI	1,22
Chirocephalidae	2,02 (3)
(Chirolophidae)	1,71(11)
Chironemidae	1,70(68)
CHIROPTERA	4,18
Chlamydomonadaceae	7,03 (1)
(Chlamydonomadidae)	7,03 /part/
CHLAMYDOMONADINEAE	7,03
Chlamydoselachidae	1,05 (1)
Chlorellaceae	7,06 (3)

Chlorobotrydaceae	7,23 (3)
Chlorococcaceae	7,06 (1)
CHLOROCOCCALES	7,06
Chlorodendraceae	7,05 (1)
CHLORODENDRINEAE	7,05
CHLOROMONADINEAE	7,69
Chlorophthalmini	1,32 (5)
CHLOROPHYCEAE	**7,01**
Chlorotheciaceae	**7,23 (5)**
Chondracanthidae	**2,10(24)**
(Chondrobrachii)	**1,33**
(Chonerhinidae)	**1,90 (2)**
Chordaceae	7,77 (1)
CHORDATES, Invertebrate	5,90
CHORDATES, Misc.	6,99
CHORDATES, Other	5,
Choreocolaceae	7,86(10)
Chloristocarpaceae	7,78 (4)
(Chromidae)	1,70(59)
Chroococcaceae	7,92 (1)
CHROOCOCCALES	7,92
Chromulinaceae	7,32 (1)
(Chromulinidae and Ochromonadidae)	7,32
Chrysocapsaceae	7,32(14)
CHRYSOMONADALES	7,32
(Chrysomonadida)	7,31
CHRYSOPHYCEAE	7,31
Chrysosphaeraceae	7,33 (1)
CHRYSOSPHAERALES	7,33
Chrysostomataceae	7,33 (2)
CHRYSOTRICHALES	7,34
Chthamalidae	2,13 (4)
Chydoridae	2,05 (6)
CHYTRIDIALES	8,33
Cichlidae	1,70(59)
CICONIIFORMES	5,63
CILIATA	6,09
Cinclidae	5,79(10)
Cirolanidae	2,23 (2)
Cirratulidae	6,50 (2)
Cirrhitidae	1,70(67)
CIRRIPEDIA	2,12
(Cirrostomi)	1,01
Citharinidae	1,38 (6)
CLADOCERA	2,05
CLADOPHORALES	7,11
Cladostephaceae	7,78 (3)
Claridae	6,17 (4)
Clariidae	1,41(18)
Clausiidae	2,10(28)
Clinidae	1,71 (8)
Clionidae	3,11(11)
Clionidae	6,15 (2)
Clupeidae	1,21 (5)
CLUPEIFORMES	1,20
Clupeini	1,21 (5)
CLUPEOIDEI	1,21
(Clupisudidae)	1,28 (3)
CNIDOSPORIDIA	6,07
Cobitidae	1,40 (5)
Cobitini	1,40 (5)
Coccolithophoridaceae	7,32 (6)
Codiaceae	7,17 (5)
COELACANTHIFORMES	1,15
COELACANTHOIDEI	1,15
Coenagridae	6,77 (1)
Coelastraceae	7,06 (8)
COELENTERATA	6,16
Coleochaetaceae	7,12 (3)
COLEOPTERA	**6,84**
COLIIFORMES	5,75
COLLEMBOLA	6,67
Colubridae	5,35 (2)
Columbellidae	3,09 (6)
Columbidae	5,69 (1)
COLUMBIFORMES	5,69
COLUMNIFERAE	9,76
COLYMBIFORMES	5,60
Comephoridae	1,78(15)
Compositae	9,91 (1)
CONCHOSTRACA	2,04
Congiopodidae	1,78(11)
Congridae	1,43(13)
Congrogadidae	1,71 (4)
Conidae	3,09(13)
CONIFERALES	9,34
CONJUGALES	7,14
Conochieidae	6,37 (2)
CONTORTAE	9,87
COPEPODA	2,09
CORACIIFORMES	5,77
Coralliidae	6,19 (1)
Corallinaceae	7,86 (9)
Corbiculidae	3,17(21)
(Coregonidae)	1,23 (1)
Coregonini	1,23 (1)
Corgoderidae	6,27 (4)
Corophiidae	2,24(11)
Corvidae	5,79 (5)
Coryphaenidae	1,70(28)
(Coryphaenoididae)	1,49 (1)
Corystidae	2,29(22)
Cotingidae	5,79 (1)
Cottidae	1,78(13)
Cottocomephoridae	1,78(14)
Cottocomephorini	1,78(14)
COTTOIDEI	1,78
Cottunculidae	1,78(17)
Cragonidae	2,28 (2)
Cranchiidae	3,21 (7)
Crangonidae	2,28 (6)

(Cranoglanidae)	1,41 (8)
Crassatellitidae	3,17 (3)
Creediidae	1,70(83)
CRINOIDEA	6,90
(Crocodilia)	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
Crytobranchidae	5,05 (1)
Crytophoraceae	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

Hirundinidae	5,79(4)
(Histichthyes)	1,54
Histiophoridae	1,75 (3)
Histiopteridae	1,70(54)
Holocentridae	1,61(11)
Holopedidae	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)
HYMENOGASTRALES	8,78
HYMENOPTERA	6,86
Hyodontidae	1,27 (1)
Hyperiidae	2,24 (1)
Hypneaceae	7,87 (9)
HYPOCREALES	8,60
Hypomesini	1,23 (4)
Hypophthalmidae	1,41924)
Hypopthalmichthyini	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)
Kolkwitziellaceae	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
Ligydidae	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)
(Malacichthyes)	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)

OPHIDIOIDEI	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
OPISTHOCOELA	5,09
Opisthocomidae	5,66 (5)
Opisthognathidae	1,70(73)
Opisthorchiidae	6,27 (6)
(Opisthomi)	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)
Osmeridae	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)
Penaeidae	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 (6)
(Peridinieae)	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)

(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)
Potamotrygonidae	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)
PSETTODOIDEI	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)
Pterottrissidae	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)

Sididae	2,05 (1)
Siganidae	1,73 (3)
SIGANOIDEI	1,73
Sillaginidae	1,70(15)
Siluridae	1,41 (7)
SILUROIDEI	1,41
Simenchelyidae	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)
Solenoideae	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)
Spermatochnaceae	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
(Steinegeriidae)	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
Stilbiscini	1,43 (8)
Stiliferidae	3,09(16)
STOMATOPODA	2,25
Stomiatidae	1,25 (3)
STOMIATOIDEI	1,25
STREPSIPTERA	6,85
Streptocephalidae	2,02 (1)
Strigeidae	6,27 (2)
STRIGIFORMES	5,72
Stromateidae	1,76 (3)
STROMATEOIDEI	1,76
Strombidae	3,10(16)
Strongylocentrotidae	6,93 (2)
Struthiolariidae	3,10(24)
STRUTHIONIFORMES	5,52
Sturnidae	5,79(19)
Styelidae	5,96 (8)
Stylatulidae	6,19 (2)
STYLOMMATOPHORA	3,14
Stylophoridae	1,56 (1)
STYLOPHOROIDEI	1,56
Stypocaulaceae	7,78 (2)
SUCTORIA	6,12
Sudidae	1,32 (5)
SUINA	4,09
Sulidae	5,62 (3)
(Suridae)	1,07 (3)
Surirelloideae	7,43 (7)
Syllidae	6,49 (4)
Symbranchidae	1,68 (2)
SYMBRANCHIFORMES	1,68
(Symbranchii)	1,68
Symbranchini	1,68 (2)
SYMBRANCHOIDEI	1,68
Synanceidae	1,78 (5)
SYNANDRAE	9,91

Tryblidiidae	3,22 (1)
Trygonidae	1,10 (5)
Trypanosomidae	6,01 (1)
(Trypauchenidae)	1,77 (2)
Trypauchenini	1,77 (2)
TUBERALES	8,67
Tubificidae	6,51 (1)
TUBIFLORAE	9,86
TUBULIDENTATA	4,27
TUNICATA	5,94
TURBELLARIA	6,24
Turbinellidae	3,09 (9)
Turbinidae	3,07 (5)
Turdidae	5,79(13)
Turridae	3,09(14)
Turritellidae	3,10(14)
TYLOPODA	4,10
Typhlosynbranchini	1,68 (2)
Tyrannidae	5,79 (2)
Ulmaridae	6,18 (1)
Ulotrichaceae	7,08 (1)
OLOTRICHALES	7,07
ULOTRICHINEAE	7,08
Ulvaceae	7,08 (4)
Umbelliforeae	9,81 (1)
UMBELLIFLORAE	9,81
Umbridae	1,24 (2)
Umbrini	1,24 (2)
Unionidae	3,16 (5)
Uranoscopidae	1,70(88)
URÉDINALES	8,73
(Urochordata)	5,94
Urocoptidae	3,14 (2)
(Urodela)	5,03
Ursidae	4,05 (2)
URTICALES	9,62
USTILAGINALES	8,72
Valoniaceae	7,17 (6)
Valvatidae	3,10 (7)
Varanidae	5,34 (1)
Vaucheriaceae	7,17 (9)
Velellidae	6,17 (6)
Veliferidae	1,54 (1)
VELIFEROIDEI	1,54
Veneridae	3,17(11)
Vermetidae	3,10(15)
VERTICILLATAE	9,53
Vireonidae	5,79(20)
VIRUSES	8,96
Viviparidae	3,10 (8)
VOLVOCALES	7,02
(Volvocidae)	7,03 /part/
Vorticellidae	6,11 (1)
Warnowiaceae	7,66 (5)
Xanthidae	2,29(10)
XANTHOPHYCEAE	7,21
(Xenarchi)	1,59
(Xenoberyces)	1,60
Xenocephalidae	1,71 (3)
Xenocongridae	1,43 (4)
Xenophthalmichthyidae	1,23 (8)
(Xenopteri)	1,92
(Xenopterygii)	1,92
(Xiphidiontidae)	1,71 (9)
Xiphiidae	1,75 (4)
Xiphisteridae	1,71 (9)
Xiphostomidae	1,38 (3)
XIPHOSURA	6,56
Zanclidae	1,74 (1)
(Zaniolepidae)	1,78 (7)
(Zanobatidae)	1,10 (3)
Zaproridae	1,71(19)
Zeidae	1,62 (1)
ZEIFORMES	1,62
Ziphiidae	4,22 (2)
Zoarcidae	1,71(15)
ZOOMASTIGINA	6,01
Zygnemaceae	7,15 (2)

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Incl. spp. lists of descriptions of vegetation around Laguna Ocotal (R.L. Dressler), mollusca (J.C. Bequaert) & fish (R.R. Miller).

:sjh F

Hershkovitz, P. (1958) 581861
Quart.Rev.Biol., 33(1):67
Biological investigations in the Selva Lacandona, Chiapas, Mexico

Review of 581860.

FAO: F

Glass, B.P. (1958) 581864
Quart.Rev.Biol., 33(1):78-9
Vertebrates of the United States

Review of 570150.

FAO: MF

Romer, A.S. (1958) 581862
Quart.Rev.Biol., 33(1):67-8
A review of the habitat of the earliest vertebrates

Review of original article with the same title by Denison, R.H.,(1956), Fieldiana, Geol., 11(8).

FAO: MF

Mansueti, R. (1958) 581865
Quart.Rev.Biol., 33(1):79
A study of the sharks of the suborder Squaloidea

Review of 570129.

FAO: M

Crafts, A.S., L. Machlis & J.G. Torrey (Ed.) (1957) 581863
Annual Reviews, Palo Alto, 8:477 p.
Annual review of plant physiology

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).

:sjh MF

Kirtisingho, P. (1957) 581866
Colombo, 112 p.
The amphibia of Ceylon

Incl. descriptions of tadpoles & their habitats.

:sjh F

Loveridge, A. & E.E. Williams (1957) 581867
Bull.Mus.comp.Zool.Harv., 115(6):163-557
Revision of the African tortoises and turtles of the suborder Cryptodira

Incl. synonymy, common names, ill., description, size, breeding, diet longevity, parasites & enemies, habitat, distribution of each sp. Morphology of skulls; keys. Index & bibliography.

:sjh MF

Grobman, A.B. (1958) 581868
Quart.Rev.Biol., 33(1):80
Revision of the African tortoises and turtles of the suborder Cryptodira

Review of 581867.

FAO: MF

Loim, A.H. & al. (1957) 581869
Bull.Fish.Res.Bd Can., (3):317 p.
Report of the Atlantic herring investigation Committee

Exploration for herring, study of populations, contributions to biology, vertebral numbers & first year growth in relation to temperature, fatness, & various aspects of relevant hydrology.

FAO:glk M

Mansueti, R. (1958) 581870
Quart.Rev.Biol., 33(1):82-3
Report of the Atlantic herring investigation Committee

Review of 581869.

FAO: M

Mansueti, R. (1958) 581871
Quart.Rev.Biol., 33(1):88-9
The physiology of the pituitary gland of fishes

Review of 580999.

FAO: MF

May, L. (1958) 581872
Quart.Rev.Biol., 33(1):91
pH measurements

Review of original article with the same title by Gold, V., 1956, John Wiley & Sons, New York, 125 p.

FAO: F

Klots, E.B. (1958) 581873
Quart.Rev.Biol., 33(1):75-6
Aquatic insects of California, with keys to North American genera and California species

Review of 560021.

FAO: F

Klots, E.B. (1958) 581874
Quart.Rev.Biol., 33(1):76
Evolution and classification of the mountain caddisflies

Review of 560023.

FAO: F

Pitkänen, H. (1957) 581875
Fisk.Tidskr.Finl., 64:171-5
Troolipyynti Suomessa (Trawling in Finland)

Development of trawling fleet in Finland, its use and catch results & notes on a new small pelagic trawl.

FAO:tl MF

Korhonen, E. (1957) 581876
Fisk.Tidskr.Finl., 64:175-7
Miksi lahnat ovat pieniä ja laihoja? (Why are breams small and meager?)

Notes on the size & growth of bream in various lakes & discussion of the over-population problem as reason for small-grown bream populations.

FAO:tl F

Leitilä, N. (1957) 581877
Fisk.Tidskr.Finl., 64:177-80
Sammakkomiehet, uusi vedenalaisen elämän tutkimusmuoto (Frogmen, a new way for study of the subwater life)

Description of the diving equipment, & the use of "frogmen" in fisheries investigation.

FAO:tl MF

Wikgren, Bo-J. (1957) 581878
Fisk.Tidskr.Finl., 64:180-3
Eräs mielipidekysely (A questionnaire on opinions)

Analysis of the answers on a questionnaire on various questions concerning fishing conditions & fisheries management in Finland.

FAO:tl MF

Hintikka, V. (1957) 581879
Fisk.Tidskr.Finl., 64:187-9
Vanhan kansan kalamiesten uskomuksia. III.
(Wisdom of the old fishermen. III.)

Description of the fishermen's believes & knowledges on the behaviour of fishes & tricks to be used for their catch.

FAO:tl MF

Malmi, K. (1957) 581882
Fisk.Tidskr.Finl., 64:193
Kokemuksia maatalousministeriön koekatiskoista (Experiences from the experimental traps of Ministry of Agriculture)

Catching properties of various types of experimental traps.

FAO:tl F

Hakola, T.P. (1957) 581880
Fisk.Tidskr.Finl., 64:191
Nieriäisen (Salmo alpinus) istutuksesta näsijärveen (On the transplantation of char (Salmo alpinus) into the lake Näsi(Järvi))

Notes on the transplantation of char in Finland in earlier years & the general environmental requirements of char.

FAO:tl F

Bard, J. (1958) 581883
Yaounde, 21 p.
Petit guide du pisciculteur rural camerounais (Manual of fish-breeder in Cameroon)

Elementary instructions on pond construction, departmental assistance, stocking, feeding, harvesting & pond fertilization.

WAD:tjj F

H.A.K. (1957) 581881
Fisk.Tidskr.Finl., 64:192
Superiojärven raudun istutukset
(On the transplantation of lake trout from lake Superior (Salvelinus namaycush)

Results of long transport of fry, & notes on the quantities & places where the trout has been transplanted in Finnish waters.

FAO:tl F

Whitley, G.P. (1958) 581884
(mimeo), 40 p.
List of type-specimens of recent fishes in the Australian Museum, Sydney

Contents as per title.

GLK:glk MF

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

Khlebovich, 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

Nevesskii, 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).

:tl 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

F

Chularova, L.A. (1957) 581891
C.R.Acad.Sci.U.R.S.S., 112:945
(A cytological & cytochomical investigation of the fertilization process in Lampetra fluviatilis). Ru

MF

Brodskii, K.A. & al. (1957) 581892
C.R.Acad.Sci.U.R.S.S., 112:957
(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). Ru

M

Bulanzhe, Yu.D. (1957) 581893
J.Acad.Sci.U.R.S.S., 27(1):55
Coordination of research in the programme of the International Geophysical Year

M

Moisoev, P.A. (1957) 581894
J.Acad.Sci.U.R.S.S., 27(1):72
Conference on fisheries research in the Western Pacific

MF

Gur'yanova, E.F. (1957) 581895
J.Acad.Sci.U.R.S.S., 27(1):74
Marine hydrobiology in China

M

Roginskii, Ya.Ya. (1957) 581896
Zool.Zh., 36(1):151-7
(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')). Ru En

MF

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 Committee (1957) 581901
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 de Estudos das Pescas (1957) 581902
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 (trawling).

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

Böhlke, J.E. (1957) 581904
Notul.nat.Acad.Philad., (295):8 p.
A new shallow-water brotulid fish from the Great Bahama Bank

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

Kelsher, J.J. & B. Kooyman (1957) 581906
Winnipeg, Dep. Mines & nat. Resources, Manitoba, 117 p.
Supplement to Hinks' "The fishes of Manitoba"

F

Moffett, A.W. & J.E. Randall (1957) 581907
Publ.Mar.Lab.Univ.Miami, 57-22:18 p.
The Roger Firestone Tarpon Investigation

M

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

Stoker, J.J. (1957) 581909
Interscience Publishers, New York, 567 p.
Water waves; the mathematical theory with applications

MF

Somerville, G.M. & L.M. Dickie (1957) 581910
Circ.Atlant.biol.Sta., (30):4 p.
Offshore scallop explorations - 1957

Prospecting by BARBARA JO for Placopecten magellanicus Gmelin off Nova Scotia (St. Pierre, Sable I, & other banks).

FiB:sjh M

Wise, J.P. (1957) 581911
Res.Rep.U.S.Fish.Serv., (50):13 p.
Growth rate of Browns Bank haddock

Determination of growth parameters by back-calculation for scale measurements of market & research vessel samples, 1942-54.

FAO:sjh M

Copland, S.J. (1957) 581912
Proc.Linn.Soc.N.S.W., 82(383):9-108
Australian tree frogs of the genus Hyla

All 44 known continental spp. & sub-spp. of the genus Hyla 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.

GLK:hr F

Kostevon, H.L. (1957) 581913
Proc.Linn.Soc.N.S.W., 82(383):117-24
On the development of the crocodilian skull

A description of an early, nearly complete, chondrocranium is presented & attention drawn to the absence of a basitrabecular process.

GLK:hr F

Trantor, D.J. (1957) 581914
Aust.J.Sci., 19:230-1
Pearl culture in Australia

Description of the implantation technique with illustration of instruments used, & preliminary account of experimental results.

GLK:glk M

O'Gower, A.K. (1957) 581915
Proc.Linn.Soc.N.S.W., 82(384):240-4
The influence of the surface on oviposition by Aëdes 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

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

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

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

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

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. Harmothoë longisetis, Gattyana cirrosa, Polynoë 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

Freeman, F.H. & F.H. Rigler (1957) 581922
J.Mar.biol.Ass.U.K., 36:553-67
The responses of Scrobicularia 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

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

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

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

Alexandrowicz, J.S. & M. 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 peracopods, 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 beckscheri

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. Ballantine (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

Marek, M. (1957) 581931
Bamidgeh, 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 Kinneret 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 subspp. anceps & edentatus 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
Alphestes scholanderi, a new sea bass from the West Indies

A description of the sp.

HR:hr M

Reed, R.J. (1957) 581933
Copeia, (4):286-90
Phases of the life history of the Rosyface 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 felis, 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. Steinmetz, Jr. (1957) 581934
Copeia, (4):290-2
Characteristics and fertility of experimentally produced sunfish hybrids, Lepomis gibbosus × L. macrochirus

Considers fertility of the F_1 hybrid, characters of F_1 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 terrae-novae, Aprinodon isodon, Sphyrna diplana & S. tiburo.

HR:hr M

Warburton, B., C. Hubbs & D.W. Hagen (1957) 581938
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) 581940
Copeia, (4):300-1
A record of the night shark, Hypoprion signatus, from Bimini, Bahamas

Contents as per title.

HR:hr M

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

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

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

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

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

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

Manville, R.H. (1957) 581948
Copeia, (4):308-9
Amphibians and reptiles of Glacier National Park, Montana

Contents as per title.

HR:hr F

Boschwitz, D. (1957) 581949
Copeia, (4):310-1
Thyroidless tadpoles of Pelobates syriacus Boettger H.

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

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Pow, P. (1957) 581939
Copeia, (4):300
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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

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 (Aplocheilus) latipes.

FAO:sjh F

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 headings: 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

Hardman, W.H. & G.M. Southward (1957) 581954
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 stenolepis using fine meshed gear, species distribution of catches, haul by haul.

WAD:sjh M

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 Maguey, Puerto Rico, of representatives of laboratories on islands in coral-reef area of tropical West Atlantic.

GLK:sjh M

Moonan, 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

Anonymous (1957) 581957
Nature, Lond., 180:488
A view of Ireland

Review of 581956.

GLK: MF

Eliasson, E. (1957) 581960
Nature, Lond., 180:512-3
Right-ventricle pressures and heart-rate in diving birds

Experimental study of physiology of fish-eating birds at Runde, West Norway.

GLK:sjh M

Hurst, H.E. (1957) 581958
Nature, Lond., 180:494
A suggested statistical model of some time series which occur in nature

A contribution to theory of storage relating to river discharge dams, cumulative temperatures etc.

GLK:sjh MF

European Productivity Agency of the Organization for European Economic Co-operation (1957) 581961
Paris, 218 p.
Air and water pollution

MF

Gauld, D.T. (1957) 581959
Nature, Lond., 180:510
Copulation in calanoid copepods

Observations on Centropages hamatus, Temora longicornis, Eurytemora velox & Acartia clausi.

GLK:wad M

Parker, A. (1957) 581962
Nature, Lond., 180:451
Air and water pollution

Review of 581961.

GLK: MF

U.K. Department of Scientific & Industrial Research (1957) 581963
London, H.M. Stationery Office, 314 p.
Report for the year 1955-56

Includes an account of research on water pollution.

:wad F

Bremaecker, 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 aenigmatica 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, fishing 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

Ridenhour, 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 Loxocsthes tenuis & Hubbsiella sardina in California, of molluscs Ostrea edulis & Spirorbis, & of worms Platynereis dumerilii, Ceratocephale 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 En

Determination of total & effective trawl fishing intensities in East China & Yellow Seas, 1954-55, on Taius tumifrons, Saurida tumbil, S. elongata & S. undosquamis.

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 Carpiodes carpio carpio.

SJH:sjh F

Reed, 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

Alvariño, A. (1957) 581975
Bol.Inst.esp.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

Alvariño, A. (1957) 581976
Bol.Inst.esp.Oceanogr., (82):3-51
Zooplancton del Atlantico iberico - 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

Lufburrow, R.A. (1957) 581977
Woods Hole, Massachusetts, 7 p.
Bottom topography from CRAWFORD cruises 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

Traung, J.-O. (1957) 581978
Shipb.Shipp.Rec., Aug. 22-Sep. 19:3-7
On the stability of fishing vessels

Lists known casualities from insufficient stability, national specifications for fishing vessels; theoretical analysis of the problem, & reviews available data.

GLK:sjh M

Anonymous (1957) 581979
Fish.News Lett.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

Trantor, D.J. (1957) 581980
Fish.News Lett.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, Presque Isle County, Michigan

F

Forney, J.L. (1957) 581982
Dissert.Abstr., 17(6):1420
Propagation of bait fishes in New York farm ponds

F

Taylor, W.R. (1957) 581983
Dissert.Abstr., 17(1):192
A revision of the genus Notorus rafinesque with a contribution to the classification of the North American catfishes

F

Hubbs, C. & W.H. Brown (1957) 581984
Sthwest.Nat., 1(2):69-77
Dionda diaboli (Cyprinidae), a new minnow from Texas

F

Hubbs, C. (1957) 581985
IF Scr.Texas Game & Fish Comm., (3):11 p.
A checklist of texas fresh-water fishes

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 meristic counts of the fishes, Etheostoma grahami and E. lepidum

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

Outten, 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.Sthcast.Ass.Game Comm., Oct.:75-7
Comparison of trawl sample results of May, 1953, and May, 1956, on lake George, St. Johns river, Florida

F

Tebo, L.B., Jr. (1957) 581994
Proc.10th Conf.Sthcast.Ass.Game Comm., Oct.:77-80
Preliminary experiments on the use of spaghetti tags

F

Snow, J.R. (1957) 581995
Proc.10th Conf.Sthcast.Ass.Game Comm., Oct.:80-5
Algae control in warmwater hatchery ponds

F

Dryer, W. & N.G. Benson (1957) 581996
Proc.10th Conf.Sthcast.Ass.Game Comm., Oct.:85-91
Observations on the influence of the new Johnsonville steam plant on fish and plankton populations

F

Counselman, J. (1957) 581997
Proc.10th Conf.Sthcast.Ass.Game Comm., Oct.:119-23
A method for evaluating freshwater sport fishing utilization

F

Wood, M.L. (1957) 581998
Proc.10th Conf.Sthcast.Ass.Game Comm., Oct.:136-9
Biological aspects of stream pollution control in Arkansas

F

Kelly, H.D. (1957) 581999
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:139-49
Preliminary studies on Tilapia mossambica Peters relative to experimental pond culture

F

Prather, 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) 582001
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:156-60
Commercial production of red cats (Speckled bullheads) in ponds

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

Swingle, H.S. (1957) 582003
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:162-5
Revised procedures for commercial production of bigmouth buffalo fish in ponds in the Southeast

F

Nelson, B. (1957) 582004
Proc.10th Conf.Sthcast.Ass.Game Comm.,
Oct.:165-8
Propagation of channel catfish in Arkansas

F

Carter, E.R. (1957) 582005
Proc.10th Conf.Stheast.Ass.Game Comm., Oct.:254-70
Investigations and management of the Dewey lake fishery

F

Hulsey, A.H. (1957) 582008
Proc.10th Conf.Stheast.Ass.Game Comm., Oct.:285-9
Effects of a fall and winter drawdown on a flood control lake

F

Irwin, W.H. (1957) 582006
Proc.10th Conf.Stheast.Ass.Game Comm., Oct.:271-5
The management of large impoundments for fish production

F

Ikezaki, F.M. & G.L. Hoffman (1957) 582009
J.Parasit., 43:451-5
Gyrodactylus eucaliae n. sp. (Trematoda: monogenea) from the brook stickleback, Eucalia inconstans

F

Fetterolf, C.M., Jr. (1957) 582007
Proc.10th Conf.Stheast.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 muskellunge, Esox m. masquinongy Mitchill

F

Havelka, J. & M. Effenberger (1957) 582011
Ann.Acad.tchécosl.Agric., 2(5):421-4
Příznaky při otravě ryb fenoly
(Symptoms in phenol poisoning of fish)

F

Betancourt, A.N. (1957) 582012
Banco Nacional de Fomento, Tegucicalpa, 136 p.
Investigacion y estudio de puertos pesqueros 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

Butler, R.L. (1957) 582013
Calif.Fish Game, 43:201-12
The development of a vinyl plastic subcutaneous tag for trout

Description of tag, accessory tools & method with notes on retention, mortality & growth.

HR:tjj F

FAO/58/9/6635

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, aleuticus, 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

582014
(Card 2)
Cottus in the Sacramento & Klamath drainages is presented.

HR:hr F

Halstead, B.W. (1957) 582016
Med.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

Anonymous (1957) 582017
Trade News, 9:3-6
Danish seining in Canada

Describes gear & methods.

:sjh M

Hayes, O.B. & G. Rose (1957) 582020
J.Amer.diet.Ass., 33:26-9
Supplementary food composition table

Gives calory, protein fat, carbohydrate, fatty acid values for cod, flounder, haddock, halibut, lobster, mackerel, 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

McLellan, 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. Markets & future development.

SJH:sjh M

FAO/58/9/6635

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

Nool, 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

Moulengracht, 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 fishing 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 withstand 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

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

Tomlinson, N. & R.A. MacLeod (1957) 582031
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

Nool, H.S. (1957) 582032
World Fish., 6:51-5
Shrimps and shrimp methods in the U.K.

M

Anonymous (1957) 582033
Chem.Engng News, 35:90
Outwitting the marine borer

M

Callanan, M.J., W.R. Carroll & E.R. Mitchell (1957) 582034
J.biol.Chem., 229:279-87
Physical and chemical properties of protamine from the sperm of salmon (Oncorhynchus tschawytscha)

M

Larsson, K.-H. (1957) 582035
Canad.Fishorm., 44:7,9,11
Scandinavian oxperionco with midwater trawling

M

Barraclough, W.E. & A.W.H. Needler (1957) 582038
Canad.Fishorm., 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

Garner, 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

Swedmark, B. & G. Teissier (1958) 582044
C.R.Acad.Sci., Paris, 247(1):133-5
Armorhydra janowiczi, n. g., n. sp., hydroméduse benthique (Armorhydra janowiczi, n. g., n. sp., a benthic hydromedusa)

A short ill. description.

FAO:sjh M

Teeri, A.E., M.E. Loughlin & D. Josselyn (1957) 582042
Food Res., 22:145-50
Nutritive value of fish - I. Nicotinic acid, riboflavin, vitamin B_{12}, 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 annelid))

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 Paramecium caudatum (Study of the effect of ultrasound on Paramecium caudatum)

Report of experiments to determine survival time as a function of power.

FAO:sjh F

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

Salt, G. (1958) 582049
Endeavour, 17(67):145-8
Parasite behaviour and the control of insect pests

A short ill. article showing how knowledge of animal behaviour can help in the practical application of findings from studies of population dynamics.

GLK:sjh MF

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

Walters, V. (1957) 582051
Copeia, (4):316
Ryby Basseina Amura. Itogi Amurskoi ikhtiologicheskoi ekspeditsii 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

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., New 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

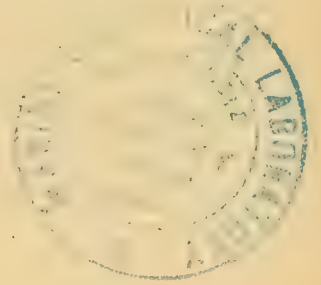
Magnússon, J. (1957) 582059
Ægir, (17 & 22):10 p.
Fiskimidaleitir 1957 (Exploration for fishing grounds). En

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.

FiB:tl M

Süberkrüb, F. (1957) 582062
Allg.FischwirtschaftZtg., 38(21/9/57):25-6
Seitenscherbretter für pelagische Schleppnetze (Otter board for pelagic trawl)

Description of the board construction.



SJH:tl M

Borgmann, W., J.C. Watkins & M.F. Stempien, Jr. (1957) 582060
J.org.Chem., 22:1308-13
Contributions to the study of marine products. XLV. Sponge nucleic acids

Nucleic acids have been isolated from different species of sponges, & all have been degraded to the nucleosides.

FiB:tl M

Schärfe, J. (1957) 582063
Allg.FischwirtschaftZtg., 38(21/9/57):13-8
Technische Fortschritte in der Fischortung (Technical advances in detection of fish)

Review of the technical improvements on echosounders, especially on small types & on recording devices.

SJH:tl M

Borgmann, W. & M.F. Stempien, Jr (1957) 582061
J.org.Chem., 22:1575-7
Contributions to the study of marine products. XLIII. The nucleosides of sponges. V. The synthesis of spongosine

Spongosine has been synthesized by 2 different methods & shown to be 9-b-D-ribofuranosyl-2-methoxyadenine.

FiB:tl M

Tambs-Lyche, H. (1957) 582064
Publ.biol.Sta., Bergen, 20:32 p.
Daily observations of surface temperature and salinity at the Biological Station during 1951 and 1952

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.

GLK:tl M

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-Waardon, P.F. (1957) 582068
Allg.FischwirtschaftZtg., 38(21/9/57):19-21
Die Elektrofischerei (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 conservation 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

Monzel, R.W. (1957) 582071
ASB Bull., 4(4):51-4
Marine biology of Alligator Harbor, Florida

Short review of the species, plants & animals found in Alligator Harbor & notes on their relative abundance.

GLK:tl M

Wood, P.C. (1957) 582072
Publ.Hlth, Lond., 1957:3 p.
The cleansing of oysters

Discussion of methods used & account of experimental work to analyse the influence of water temperature on the cleansing process.

GLK:glk MF

Johnson, W.C. (1957) 582073
Adm.Rep.Inl.Fish.Calif., (57-12):6 p.
Sampling fishing success by postal card questionnaires at lake Merced, San Francisco county, 1956

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.

WAD:wad F

Anonymous (1957) 582074
Norweg.Fish.News, 4(3):19
The Bergen Nautik Log Type D

Specification of this instrument.

SJH:sjh M

Sollaeg, J. (1957) 582075
Norweg.Fish.News, 4(3):20-1
The problems of protection of fish stocks in relation to the Norwegian fisheries

A short review, dealing with International Fisheries Convention (1946) & the proposed new one for the N.E. Atlantic.

SJH:sjh M

Anonymous (1957) 582076
Norweg.Fish.News, 4(3):22
HELLAND HANSEN, the new research vessel of Geophysical Institute, Bergen

Short ill. description of the vessel & some of its equipment.

SJH:sjh M

Hunger, H. (1957) 582077
Allg.Fischwirtschaft Ztg., 38(21/9/57):27-9
Das Unterwasser-Fernsehen und seine Bedeutung für die Fischerei (Underwater television and its use for fisheries)

Short ill. account of some kinds of equipment.

SJn:sjh M

Moiseev, P.A. (1957) 582080
J.Acad.Sci.U.R.S.S., (1):72-4
Mezhdunarodnoe sotrudnichestvo gidrobiologov. Soveshchanie po rybokhoziaistvennym issledovaniiam v zapadnoi chasti tikhogo okeana (International cooperation of hydrobiologists. Conference on investigations in Fisheries economy in the western part of the Pacific Ocean)

A short report.

GLK:sjh M

Shuleykin, 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 studies in the sea & studies of surface films.

:tl M

Gur'ianova, E.F. (1957) 582081
J.Acad.Sci.U.R.S.S., (1):74-7
Morskaia gidrobiologiia 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

Gizenko, A.I. (1957) 582082
Paper presented at the Conference of Siberian zoologists, 25-28 Nov., 1957, Novosibirsk
Fotopanoramicheskii metod uchota chislennosti morskikh kotikov na ostrove Tiulen'om (Photo-panoramic method for estimating the number of fur-seals on the Tiulenii island)

Deals with one of the new methods of studying commercial animals.

:go M

Stroganov, S.U. & K.T. Iurlov (1958) 582083
Izv.sib.Otd.Akad.Nauk SSSR, (1):152-4
Sovoshchanie zoologov Sibiri (Conference of Siberian zoologists)

Review of the Conference, including A.I. Gizenko's paper (582082).

FAO: M

Wikgren, Bo-J. (1957) 582086
Fisk.Tidskr.Finl., 1957:22-5
Sikmärkningar (Tagging of whitefish)

Notes on percentage of recapture & migrations of Coregonus nasus & C. lavaretus along the Finnish coast.

FiB:tl MF

Votintsov, K.K. (1958) 582084
Izv.sib.Otd.Akad.Nauk SSSR, (2):87-98
Nekotoryc itogi gidrokhimicheskikh issledovanii 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.

FAO:go F

Paes-da Franca, M.L. (1957) 582087
Ann.Jta Invest.Ultramar, 10:(2):39 p.
Contribuiçao para o conhecimento da fauna malacológica de Angola - Gasteró-podes testáceos (Contribution to the knowledge of the malacologic fauna of Angola - Gastropodes testacea)

A catalogue encompassing 25 families, 37 genera & 55 spp.

FiB:hr M

Wikgren, Bo-J. (1957) 582085
Fisk.Tidskr.Finl., 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.

FiB:tl MF

Pesonen, T., A. Tuominen & E. Halmo (1957) 582088
Turkistalous, 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.

FiB:tl MF

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 & Social Affairs (1957) 582092
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 Oceanography (1957) 582090
(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 & Social Affairs (1957) 582093
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. Vinogradov (1957) 582091
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 ostralegus) as posts of cockle and mussel beds

Summarizes the results of investigations already made of the feeding of oystercatchers, & describes the methods employed in studying the problem.

GLK:hr M

Conseil Permanent International pour l'Exploration de la Mer (1957) 582095
Copenhague, 51 p.
Bull.statist.Pêch.marit., Copenh., 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 issledovanii SSSR, Kitaia, Korei i V'etnama) (Scientific cooperation of 4 countries (Coordination of investigations 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 foreigh trawlers).

FiB:tl M

Washington (State) Department of Fisheries (1957) 582097
45 p.
66th Annual Report for the year 1956

Reports briefly on economic evaluation of fisheries; hatcheries (research, management, operations); marine & freshwater 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 Stande vom 31 Dezember 1956 (German fishing fleet as on 31 December 1956). En

Statistics & analysis of the German fishing fleet.

FiB:tl M

Lundbeck, J. (1957) 582101
Jber.dtsch.Fisch., (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

Catches & landings by spp., fishing grounds & seasons; fishing effort & general fishing conditions during the year.

FiB:tl M

Ubeling, G. (1957) 582102
Jber.dtsch.Fisch., (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

Report.

FiB:tl M

Roll, H.U. & H.O. Mertins (1957) 582103
Jber.dtsch.Fisch., (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

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.

FiB:tl M

FAO/58/9/6635

Bückmann, A. (1957) 582104
Jber.dtsch.Fisch., (1956):192-6
Die Arbeiten der Deutschen Wissenschaftlichen Kommission für Meeresforschung (The work of the German Scientific Commission for marine investigations). En

Review of the work of the Commission in 1956.

FiB:tl M

von Brandt, A., H. Mann & Chr. Hennings (1957) 582105
Jber.dtsch.Fisch., (1956):197-239
Die Fischereiforschung (Fisheries investigations). En

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.

FiB:tl MF

Dierks, A. (1957) 582106
Jber.dtsch.Fisch., (1956):240-3
Hochseefischerei (Deep-sea fishery). En

Statistics of fleet, landings & general economical stage of the German deep-sea fishery in 1956.

FiB:tl M

Frick, C. (1957) 582107
Jber.dtsch.Fisch., (1956):244-5
Grosse Heringsfischerei (Loggerfischerei) (Great herring fishery (Logger fishery)). En

Short review of the German logger fishery for herring in 1956.

FiB:tl M

Brockstedt, H. (1957) 582110
Jber.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

Neuhaus, E. (1957) 582108
Jber.dtsch.Fisch., (1956):246-51
Kleine Hochsee- und Küstenfischerei (Small deep-sea and coastal fishery). En

Short review of German fishery with smaller boats during 1956.

FiB:tl M

Hollmich, G. (1957) 582111
Jber.dtsch.Fisch., (1956):295-300
Walfang (Whaling). En

Review of the world whaling during 1956.

FiB:tl M

Wiehr, H. (1957) 582109
Jber.dtsch.Fisch., (1956):252-64
Binnenfischerei (Inland fishery). En

Review of the yield of German inland fishery & fish culture in 1956, & the investigations conducted in inland fisheries.

FiB:tl F

Krefft, G. (1957) 582112
Jber.dtsch.Fisch., (1956):301-4
Verzeichnis der wissenschaftlichen, deutschen, englischen, norwegischen, französischen und spanischen Namen der in den deutschen Fischereistatistiken aufgeführten Tiere (List of scientific German, English, Norwegian, French and Spanish names of the animals occurrency 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, Eleocharis, Najas, Chara, Potamogeton, Myriophyllum, Ceratophyllum, Sagittaria, Isoëtes, 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 quadramaculatus & 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 Haematococcus 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 & Scenodesmus.

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 Selander, 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

Bates, M. (1957) 582125
Ecology, 38:548
Parasite ecology

Review of 'Parasites and parasitism', by Cameron, T.W.M., 1956, Wiley & Sons, New York, 322 p.

GLK: MF

Springer, S. (1957) 582126
Trans.Amer.Fish.Soc., 85:13-7
Tuna resources of the tropical and sub-tropical Western Atlantic

Lists spp. & briefly discusses their abundance in the Gulf & Caribbean & the means of exploitation.

WAD:tjj M

Clemens, H.P. & J.C. Finnell (1957) 582127
Trans.Amer.Fish.Soc., 85:18-27
Biological conditions in a brine-polluted stream in Oklahoma

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.

WAD:tjj F

Moyle, J.B. & D.R.Franklin (1957) 582128
Trans.Amer.Fish.Soc., 85:28-38
Quantitative creel census on 12 Minnesota lakes

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.

WAD:tjj F

Funk, J.L. (1957) 582129
Trans.Amer.Fish.Soc., 85:39-57
Movement of stream fishes in Missouri

Analysis 846 recovery reports of tagged fish to determine the movement pattern of 14 spp., each sp. including a sedentary group & a mobile group.

WAD:tjj F

Jenkins, R.M. (1957) 582130
Trans.Amer.Fish.Soc., 85:58-74
The effect of gizzard shad on the fish population of a small Oklahoma lake

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 Centrarchids.

WAD:tjj F

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 creeled fish, the annual stocking requirements are estimated.

WAD:tjj F

Donaldson, L.R. & P.R. Olson (1957) 582132
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

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

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

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 neighbouring 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

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

~~FAO/58/9/6635~~

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. Grzenda (1957) 582138
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 bluntnosed 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. Johnson (1957) 582139
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.Parker (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. Threinen (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) population 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

Ingle, 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 Penaeus setiferus, P. aztecus, & P. duorarum on the basis of biological investigations.

HR:hr M

Regan, J., C.P. Idyll & E.S. Iverson (1957) 582149
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

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

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

FAO/58/9/6635

Juneo, F.C. (1957) 582152
Proc.Gulf Caribb.Fish.Inst., 9:99-106
Biological investigation of Atlantic Coast Menhaden

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

Tabb, D. (1957) 582153
Proc.Gulf Caribb.Fish.Inst., 9:106
Studies on the life history of the spotted sea trout Cynoscion nebulosus (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

Bardach, J.E. & D.W. Menzel (1957) 582154
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 Epinephelus guttatus, E. striatus, Myctoroperca 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

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

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

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

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

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. Viswcswara (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 & Wildlife 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. Magar (1958) 582165
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, Parapenoopsis stylifera, Hippolysmata onsirostris & Leander tenuipes.

FAO:sjh M

Allen, 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. Devambez (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 Anchoveta (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, Neopisthopterus, Opisthonema, Sardinops, Lile, Clupea, Alosa, Pomolobus, Lycengraulis,

582168 (Card 2)
Anchoa, Harengula, Engraulis, Anchoviella.

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

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

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

Margalef, 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

582182
(Card 2)
year. The cycles of abundance & of changes in composition are discussed.

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

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 & re-creation, study by J. Crutchfield of fishery statistics indicating relative rise in fish prices & decrease in per capita consumption since 1890's.

HR:sjh MF

Shewan, 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

Shewan, J.M. & A.S.C. Ehrenberg (1957) 582188
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

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

Gunstone, F.D. & W.C. Russell (1957) 582190
Animal fats. VIII - The component acids of flamingo fat and antelope fat

Incl. some data on composition of food of Phoenicopterus 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 dehydrated fish

Incl. some data on gross chemical composition & histology of Gadus callarias.

FAO:sjh 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 archipelagoes

List of 398 works dealing with Indian Ocean generally, geology, natural history, floras, faunas, production (incl. fisheries), education & medicine.

GLK:glk M

Racek, 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

Yuen, H.S.H. & F.C. Junc (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

Smith, K.A. (1957) 582195
Comm.Fish.Rev., 19(9):1-15
Maine herring explorations and fishing gear experiments

Reports gill-net search by M.V.TACOMET for young "sardines" (Clupea harengus), trials with midwater trawl, purse-seine.

FAO:sjh M

Fingerman, M., L.D. Fairbanks & W.C. Plauche (1957) 582196
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 Foundation (1958) 582197
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-weed zonation.

FAO:sjh MF

International Oceanographic Foundation (1958) 582198
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 & Chlorella.

FAO:sjh MF

Ridley, M.W. & R. Percy (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

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

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

Rigby, J.K. & L.H. Burckle (1958) 582206
Science, 127:1504
Turbidity currents and displaced freshwater 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

Kolbe, R.W. (1958) 582207
Science, 127:1504-5
Turbidity currents and displaced freshwater diatoms

An answer to 582206.

FAO:sjh MF

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

Donner, J.J. (1958) 582210
New Phytol., 57(2)
Loch Mahaick, a late-glacial site in Perthshire

F

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

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

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

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

Swedmark, B. & G. Teissier (1958) 582215
C.R.Acad.Sci., Paris, 247:238-40
Otohydra vagans n. g., n. sp., hydrozoaire des sables, apparenté aux Halammohydridées (Otohydra vagans n.g., n.sp., hydrozoan of sands assigned to the Halammohydridae)

Ill. description of the sp. from north coast of Finistère & discussion of its systematic position.

FAO:sjh M

Halldal, P. (1958) 582218
Physiol.Plant., 11:401-20
Pigment formation and growth in blue-green algae in crossed gradients of light intensity and temperature

The in vivo absorption spectra of 2 chlorophyll a, phycosyanin & yellow pigments have been derived & a three-dimensional representation of the different pigments formed in Anacystis at different light intensities & temperatures at 2 stages of the development is given.

FAO:tl F

Gontcharoff, M. (1958) 582216
C.R.Acad.Sci., Paris, 247:246-7
L'autogreffe de la trompe chez Eunemertes echinoderma Marion
(Self-graft of the proboscis of Eunemertes echinoderma Marion)

Note on experimental implantations.

FAO:sjh M

Union Géodésique et Géophysique Internationale (1958) 582219
Paris, 97-128
Chronique de l'U.G.G.I. no. 12
(I.U.G.G. chronicle)

Contains list of national correspondents for the International Association of Physical Oceanography.

TL:tl M

Sorokin, C. (1958) 582217
Physiol.Plant., 11:275-83
The effect of the past history of cells of Chlorella on their photosynthetic capacity

The photosynthetic activity of high-temperature strain of Chlorella as affected by the past history of the cells & environmental conditions (temperature & light intensity) during photosynthetic measurements was studied with the Warburg technique.

FAO:tl F

Kent, R.E. (1958) 582220
Tech.Rep.Chesapeake Bay Inst., (16):86 p.
Turbulent diffusion in a sectionally homogeneous estuary

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.

FAO:tl MF

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

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

Marsh, C.A. & G.A. Levvy (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

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

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

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. Manners (1958) 582227
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

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

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 munsterhjelmi nov.gen. & sp., collected 1914 under sea-wrack washed on shore at Sakashama.

FAO:sjh M

Lieder, 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 refloxa (Seligo), B. cederströmi (Schödler) & B. crassicornis (Lilljeborg), with notes on their distribution.

FAO:tl F

Lindberg, K. (1958) 582231
Ark.Zool., Andra Ser., 11:355-77
Un cyclopide (Crustacé copépode) récolté par Monsieur Patrice Paulian dans l'île Amsterdam (A cyclopid (Crustacea, copepoda) 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

Agrell, I. (1958) 582232
Ark.Zool., Andra Ser., 11:383-92
The thermal dependence of the mitotic stages during the early embryonic development of the sea urchin embryo

Experiments with Psammechinus miliaris & Echinus esculentus 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 A_1 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 sulphatases

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

Borgmann, F., S. Rimon & R. Segal (1958) 582235
Biochem.J., 68:493-9
Effect of pH on the activity of eel 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.
Australian catches of humpback whales 1957

Review of production statistics; sex ratios, maturity, size distribution of catches by months & areas.

FAO:sjh M

Food & Agriculture Organization of the United Nations (1958) 582239
Rep.FAO/EPTAP, (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

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

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

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 ± 1·9%.

:sjh MF

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- & γ-activity in internal, gas-flow, proportional counters are described.

:sjh F

Toney, M.E., Jr. (1958) 582244
Growth, 22(1):35-50
Morphology of the blood cells of some crustacea

Ill. account of cytological & histological 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

FAO/58/9/6635

Heady, E.O. (1958) 582245
Canad.J.agric.Econ., 6(1):1-13
Applications of game theory in agricultural economics

A method of determining operational strategy generally applicable to exploitation of natural & cultivated living resources.

FAO:sjh MF

Ockenden, C.V. (1958) 582248
Technique, Beckenham, 12:19
Weather facsimile broadcasts

A short ill. description of a chart facsimile radio transmitter & receiver.

SJH:sjh M

McIntyre, A.D. (1958) 582246
Mar.Res., (1):17 p.
The ecology of Scottish inshore fishing grounds. I. The bottom fauna of east coast grounds

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.

FAO:sjh M

Bell, J. (1958) 582249
Technique, Beckenham, 12:20-3
An analogue computer employing magslips and servos

Ill. description of a computer designed for study of ship stabilization; its principles & use; means of stimulating sea forces.

SJH:sjh M

Mosimann, J.E. (1958) 582247
Rev.canad.Biol., 17:137-228
An analysis of allometry in the cholonian shell

A comprehensive review, followed by report of original study & development of analytical methods for growth of Stornotherus odoratus, Chrysemys picta & Graptemys geographica.

FAO:sjh F

U.K. White Fish Authority (1958) 582250
London, 44 p.
Annual report and accounts for the year ended 31st March 1958

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.

FiB:sjh M

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 mississipiensis, Chelydra serpentina, Dermochelys coriacea, Clemmys insculpta & Testudo gigantea.

FAO:sjh MF

Raymont, J.E.G. & M.N.E. Adams (1958) 582252
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

Schaefer, M.B. & Y.M.M. Bishop (1958) 582253
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 inshore 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

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

Reid, J.L., Jr. (1958) 582255
Limnol.Oceanogr., 3:160-5
A comparison of drogue and GEK measurements in deep water

2 series of current measurements made with GEK & drogues 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 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. enflata & Krohnitta pacifica & their relation to different environmental conditions.

TL:tl M

Patterson, A.M. (1958) 582257
Limnol.Oceanogr., 3:171-80
Turbulence spectrum studies in the sea with hot wire

Description of hot-wire equipment & observations on the turbulence spectrum in Strait of Juan de Fuca during a tidal cycle. A review of several types of turbulence measuring instruments is included.

TL:tl M

Mackereth, F.J.H. (1958) 582258
Limnol.Oceanogr., 3:181-91
A portable core sampler for lake deposits

Pneumatically 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.

TL:tl F

Livingstone, D.A., K. Bryan & R.G. Leahy (1958) 582259
Limnol.Oceanogr., 3:192-214
Effects of an arctic environment on the origin and development of freshwater lakes

Description of the physiography of the Alaskan lakes; notes on the plankton & benthos communities in them, fossils found in sediments & estimates of annual production.

TL:tl F

Frey, D.G. & J.B. Stahl (1958) 582260
Limnol.Oceanogr., 3:215-21
Measurements of primary production on Southampton Island in the Canadian Arctic

Primary production in 2 lakes of contrasting morphometry was estimated independently from the differences in oxygen, pH, & carbon^{14} uptake between light & dark bottles.

TL:tl F

Prowse, G.A. & J.F. Talling (1958) 582261
Limnol.Oceanogr., 3:222-38
The seasonal growth and succession of plankton algae in the White Nile

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.

TL:tl F

Allen, D.M. & A. Inglis (1958) 582262
Limnol.Oceanogr., 3:239-41
A pushnet for quantitative sampling of shrimp in shallow estuaries

Description of the gear used to sample Penaeus setiferus & P. aztecus in the Gulf of Mexico in areas overgrown with Spartina alterniflora.

TL:tl MF

FAO/58/9/6635

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 (1958) 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 E

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-Razavet, 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 & discusses results; general discussion of dispersion in sea of river discharge as determined by current charts.

FAO:sjh M

Kent, 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

Morochkine, 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 Kurilo-Kamtchatka trench)

French translation of original Russian article, Trav.Inst.Oceanol.Acad.Sci. U.R.S.S., 12:155-60, 1955.

FAO:sjh M

Chatel, G. (1958) 582269
Bull.Com.contr.Océanogr., 10:413-21
Essai d'interprétation des processus d'erosion littorale dans la region de Coutainville (Essay on the interpretation of littoral erosion processes in the Coutainville region)

Influence of sea currents on sand transport on Normandy coast.

FAO:sjh M

Eve, C. & A.J. Southward (1958) 582270
J.Mar.biol.Ass.U.K., 37:267-86
The breeding of Aronicola ocaudata Johnston and A. branchialis Aud. & Edw. at Plymouth

Description of the breeding cycles of the species with considerations on their behaviour & development.

HR:hr M

Morton, J.E. (1958) 582271
J.Mar.biol.Ass.U.K., 37:287-97
Observations on the gymnosomatous pteropod Clione limacina (Phipps)

Some features of the digestive & reproductive systems, as well as the habits & swimming of the pteropod Clione limacina are studied from specimens of the dwarf 'southern' race, which occurs at Plymouth.

HR:hr M

Wilson, D.P. (1958) 582272
J.Mar.biol.Ass.U.K., 37:299-307
Notes from the Plymouth aquarium. III.

Considers the breeding of Spondyliosoma cantharus, the sexual display of Labrus ossifagus & learning in Zeus faber.

HR:hr M

Bagenal, T.B. (1958) 582273
J.Mar.biol.Ass.U.K., 37:309-13
The fecundity of Clyde plaice

A comparative fecundity study of Pleuronectes platessa.

HR:hr M

Hodley, R.H. (1958) 582274
J.Mar.biol.Ass.U.K., 37:315-22
Tube formation by Pomatoceros triqueter (Polychaeta)

The attached tube of P. triqueter 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.

HR:hr M

FAO/58/9/6635

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 B_{12}).

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. Armstrong (1958) 582276
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 esculentus 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

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

Freeman, R.F.H. & J. Llewellyn (1958) 582283
J.Mar.biol.Ass.U.K., 37:435-57
An adult digenetic trematode from an invertebrate host: Proctoeces subtenuis (Linton) from the lamellibranch Scrobicularia plana (Da Costa)

The spp. of Proctoeces are reviewed, & some revisions suggested. The adult nature of P. subtenuis from Scrobicularia plana is discussed.

HR:hr MF

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

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

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

FAO/58/9/6635

Dales, 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, Palaemon hendersoni DeMan (Crustacea: decapoda palaemonidae)

Application of a general allometry formula proposed in Proc.nat.Inst.Sci. India, 23B:42-7 (580584)

FAO:sjh F

Union Géodésique & Géophysique Internationale (1958) 582288
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 sealfishery

A short account of history of this industry & its present status, & possible future.

FAO:sjh M

U.K. Ministry of Agriculture, Fisheries & Food (1958) 582289
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

FAO/58/9/6635

Gillespie, G.J. (1958) 582292
Trade News, 10(8):7-8
Halifax now main centre

Account of current operations.

FAO:sjh M

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

Anonymous (1958) 582294
Trade News, 10(8):13-7
Canadian fisheries production, May - December, 1957

A brief review of production statistics.

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

FAO/58/9/6635

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

Halver, 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

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

McLeese, 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

Artüz, I. (1958) 582300
Balık Balıkçılık, 6(6):7-11
Torik-palamut Sarda sarda ların mevsim ve senelere bağlı av peryotları. 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

Uyguner, B. (1958) 582301
Balık Balıkçılık, 6(6):12-6
Kıyı gölleleri veya lâgünler hakkında
(About the lagoon type of lakes)

A short general article.

SJH:sjh MF

Atay, I. (1958) 582302
Balık Balıkçılık, 6(6):17-21
Somun balığının enterasan hayatı
(Life story of the salmons)

A note on Oncorhynchus fisheries of U.S. west coast.

SJH:sjh MF

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

Unor, S. (1958) 582304
Balık Balıkçılık, 6(7):22-6
Gırgır 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.E. (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 & Ethoostoma 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: seabird products

Incl. short account of guano industry of S. Africa.

FAO:sjh M

FAO/58/9/6635

Downing, K.M. & J.C. Morkons (1957) 582311
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, Leuciscus leuciscus, Squalius cephalus & Alburnus alburnus.

FAO:sjh F

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

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) 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

Konovalov, I. & R. Shcherbakova (1957) 582315
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) 582316
Polar Rec., 9:153-4
Method of hastening melting of floating ice

Review of 582315.

FAO: MF

Modbøe, O. (1957) 582317
Polarboken, :121-3
Scandinavian Airlines System's sea ice reporting service

Notes on the regular sea ice observations carried out by Scandinavian Airlines System over the waters between Svalbard & Greenland.

:tl M

U.S.Navy Hydrographic Office (1957) 582320
Washington, D.C., 70 p.
Oceanographic atlas of the polar seas. I.

M

Anonymous (1958) 582318
Polar Rec., 9:156
Scandinavian Airlines System's sea ice reporting service

Review of 582317.

FAO: M

Permanent International Association of Navigation Congresses (1958) 582321
Bruxelles,
Illustrated technical disctionary in six languages. I. The sea

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.

M

Anonymous (1958) 582319
Polar Rec., 9:156-7
Canadian Joint Committee on oceanography: working group on ice in navigable waters

Summary of minutes of the meeting of the Canadian Joint Committee on Oceanography held in Ottawa on 25 September 1957.

FAO:tl M

Bykhovskii, B.E. & L.F. Nagibina (1958) 582322
Acta zool.sinica, 10(1):1-18
Predstavitel' novogo semeistva monogeneticheskikh sosal' shchikov (Anchorophorus sinensis Bykhovskii and Nagibina gen. and sp. nov.). Ch Ru

Ill. description of a specimen, representing a new family (Anchorophoridae) of monogenetic trematoda from Cynoglossus semilaevis gills.

FAO:sjh M

FAO/58/9/6635

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

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

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

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, Choeroichthys brachysoma, Choeroichthys suillus suillus, Choeroichthys suillus malus, Stigmatophora argus, Stigmatophora nigra, Syngnathoides biaculeatus, Solegnathus fasciatus, Solegnathus spinosissimus, Solegnathus guntheri, S. robustus, S. dunckeri, Haliichthys taeniophorus, Acentronura australe, A. breviperula, Hippocampus abdominalis, H. whitei,

582326 (Card 2)

H. angustus, H. kuda, H. tristis, H. breviceps, H. planifrons, H. spinosissimus, Phyllopteryx taeniolatus, & P. taeniolatus.

GLK:sjh MF

U.K. Ministry of Agriculture, Fisheries & Food (1958) 582328
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); Shellfish.

SJH:sjh MF

Munro, I.S.R. (1958) 582329
Fish.News Lett.Aust., 17(5):17-20
Handbook of Australian fishes

Ill. notes on spp. Phycodurus eques eques, P. eques glauerti, Solenichthys racoki, S. leptosomus, Aulostomus chinensis, Fistularia villosa, F. petimba, Acoliscus strigatus, Centriscus aristatus, C. scutatus, Macrorhamphosus elevatus, M. molleri, M. volitaris, Centriscops humerosus, Notopagon lillici, Pegasus draconis, Parapegasus notans, Acanthopegasus lancifer, Melanotaenia nigrans, M. fluviatilis, M. australis & M. maccullochi (Solenichthydae,

582329
(Card 2)
Aulostomidae, Fistulariidae, Centriscidae, Macrorhamphosidae, Pegasidae & Melanotaeniidae).

GLK:sjh MF

Anonymous (1958) 582332
Fish.News Lett.Aust., 17(6):5
Fishes nobody could identify

Notes on captures of Hyperoglyphe porosa (off New South Wales) & Gasterochisma melampus (off Victoria).

GLK:sjh M

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 Lett.Aust., 17(6):13, 32
Shark closure and marketing

Reply to 582334.

GLK:sjh M

Wells, V. (1958) 582338
Fish.News Lett.Aust., 17(6):29, 34
Surveying Aust. pearling beds

Continuation of 582331.

GLK: M

Munro, I.S.R. (1958) 582336
Fish.News Lett.Aust., 17-20
Handbook of Australian fishes

Ill. notes on spp. Amnoris rubrostriatis, Aidaprora carteri, Rhombosoma trifasciata, Rhadinocentrus ornatus, R. rhombosomoides, Quirichthys stramineus, Pseudomugil signifer, P. signatus, P. affinis, P. gertrudae, Tropidostethus rhothophilus, Taeniomembras microstomus, T. lincolnensis, T. endorae, T. tamaronsis, Taeniomembras elongatus, T. tropicalis, T. edelensis, T. rockinghamensis, Atherinosoma vorax, Allanetta

Starik, I.E. & al. (1958) 582339
Geokhimiia, (1):3-13
K voprosu ob ionievom metode opredeleniia 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, intermediate, high sea. Io contents in the former are variable. In the latter, radioactive equilibrium between Ra & Io favours the ionium method for determining the geological age of silt.
FAO:go M

582336
(Card 2)
punctata, Hypoatherina lacunosa & H. uisila (Telmatherinidae, Pseudomugilidae, Atherinidae).

GLK:sjh MF

Baranov, V.I. & L.A. Kuzmina (1958) 582340
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, Fe_2O_3, 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

Taylor, A.R.A. (1957) 582342
Cand.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

van Wool, 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

FAO/58/9/6635

The Conservation Foundation (1958) 582344
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,

582344 (Card 2)
subsidies & grants given; staff & council membership; accounts.

FAO:sjh MF

Scripps Institution of Oceanography, Univ. California (1957) 582346
Berkeley, 363 p.
Oceanic observations of the Pacific, 1949

Tabulated oceanographic data collected during 1949.

FAO:tl M

1(6):84

Canada. Department of Fisheries (1958) 582347
Rep.Dep.Fish.Can., (27):42 p.
Fish culture development

Report on cultivation activities with respect to oysters & Salmo salar, S. s. sebago, S. fario, S. iridcus; Salvelinus alpinus, S. fontinalis & Cristivomer namaycush. Tables on egg & larvae collection, rearing & distribution, tagging, selective breeding.

FiB:sjh MF

Naumov, N.P. (1958) 582348
Zool.Zh., 37:659-79
Nekotoryc osnovnyc voprosy dinamiki naseleniia zhivotnykh (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

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

Monchadsky, A.S. (1958) 582350
Zool.Zh., 37:680-92
O klassifikatsii faktorov okruzhaiushchoi 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

Latham, R.M. (1958) 582351
Penn.Angler, 27(2):2-7
The eel ... truly a remarkable creature

A popular article on Anguilla rostrata & A. vulgaris: life history & fishery.

GLK:wad MF

Gunston, D. (1958) 582352
Penn.Angler, 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) 582353
U.N.Rev., 4(10):3
Sea law conference

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 Institution of Oceanography (1958) 582359
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) 582360
FiskTidskr,Finl., 65:69-72
Taimenen kasvatuksesta metsähallituksen vesissä (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

Ryhänen, R. (1958) 582361
FiskTidskr.Finl., 65:72-8
Scharflingin kalanviljelyslaitos
(Fish culture station in Schaflingen)

Description of the Austrian station & its activities.

FAO:tl F

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

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

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

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

Balme, 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

Davies, J.L. (1957) 582371
Aust.J.Sci., 20:105-11
The importance of cut and fill in the development of sand beach ridges

An essay on the causes of ridge systems in S-E Australia. Periodicity in formation, evidence of sea level changes; wave action.

FAO:sjh M

McKenzie, P. (1958) 582372
Aust.J.Sci., 20:213-4
The development of beach sand ridges

A letter taking up conclusions of Davies, J.L., 1957 (582371)

GLK:sjh M

Bearup, A.J. (1958) 582373
Aust.J.Sci., 20:219-20
Trematode parasites in estuarine fish

Larval stages of Stictodora Heterophyidae genus in the mollusc Pyrazus australis of L. Narrabeen (near Sidney, Australia); cercariae attacked Gambusia & Atherinosoma, & adult flukes were obtained by feeding infected fish to young gulls (Larus novae-hollandiae).

GLK:sjh MF
FAO/58/9/6635

Cook, J.G. (1957) 582374
Discovery, 18:477-9
Seaweed as a source of chemicals

A short review article.

FAO:sjh M

Volpe, E.P. & G.H. Penn (1957) 582375
J.Hered., 48:91-6
Dimorphism of chromatophore patterns in the dwarf crawfish

Ill. analysis of samples of Cambarellus shulfeldtii from eastern Louisiana, collected 2/4/55 - 10/1/56.

FAO:sjh F

Ray, S.M. & W.B. Wilson (1957) 582376
Fish.Bull., U.S., (123):469-96
Effects of unialgal and bacteria-free cultures of Gymnodinium brevis on fish and notes on related studies with bacteria

Experimental demonstration of differing sensivities of Membras vagrans, Mugil cephalus, Fundulus grandis, Mollienisia latipinna, Fundulus similis & Cyprinodon variegatus to toxic substances produced by G. brevis. 2 chromogenic marine bacteria, Flavobacterium piscicida Bein & an unidentified red-pigment-producing form from the west coast of Florida, were tested for toxicity to fish; results are discussed.
FAO:sjh M

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. Pomeroy (1957) 582378
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. Vallentyne (1957) 582381
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

Richer, G.J., Jr. & G.A. Rounsefell (1957) 582379
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 & W. Fosberg (1957) 582382
Limnol.Oceanogr., 2:111-3
The vitamin-B_{12} activity of mullet and shark serum

Microbiological assay procedures using Euglena gracilis, z strain, were employed to measure the vitamin-B_{12} 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 B_{12}-active substances by marine bacteria

The production of members of the vitamin-B_{12} family of compounds by 34 marine bacteria that were grown in a B_{12}-deficient medium was assayed.

GLK:tl M

Yentsch, 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, HCO_3, Cl, SO_4, NO_3, PO_4 & SiO_2 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

FAO/58/9/6635

Davis, C.C. (1957) 582389
Limnol.Oceanogr., 2:158-9
Cordylophora lacustris Allman from Chagrin Harbor, Ohio

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.

GLK:wad MF

Anonymous (1957) 582390
Discovery, 19(1):8-9
The biological productivity of Britain

Review of the Symposium held by the Institute of Biology, Oct. 4 & 5, 1957, on 'The Biological Productivity of Britain.'(see 580725 & 580726).

F

Rojo, A. (1957) 582391
Trade News, 10(1):3-4
Pair-trawling on the Grand Banks

Short ill. article on this method of fishing & its use in NW Atlantic.

FAO:sjh M

Anonymous (1957) 582392
Trade News, 10(1):6
The "Norwegian Jigger"

Ill. note on this new lure for handlining cod & pollock, tested off Nova Scotia.

FAO:sjh M

Anonymous (1957) 582393
Trade News, 10(1):7-10
Canadian fisheries production, May 1956 - April 1957

Short review of production statistics.

FAO:sjh MF

Anonymous (1957) 582394
Trade News, 10(4):6-7
Fisheries Research Forum Grande Riviere, P.Q.

Short report of a meeting of fisheries scientists, which included a lecture on fisheries oceanography by L.M. Lauzier.

WAD:sjh M

Le Cren, E.D. (1958) 582395
Fish.Stud.FAO, (8):52 p.
The application of science to inland fisheries

Examines physical, chemical & biological factors of aquatic production & its realization as fishery yield & discusses possibilities of increased control of hydrobiological processes.

FiB:tjj F

Neal, G.M. (1958) 582398
Canad.J.Res.(Zool.), 36:95-111
Notes on some dicranophorinae (Rotifera)

Reliability of structures. Dicranophorus uncinatus (Milne) has been redesignated as D. aquilus (Gosse) & both spp. are redescribed. D. uncinatus of Weber (nec Milne) is a member of the D. rostratus-grypus group, D. cernuus Harring & Myers is synonym of D. rostratus (D.-N. & F.); D. corystis H. & M. & D. haueri H. & M. are valid spp. distinct from D. rostratus.

FAO:sjh F

Vikse, H. (1958) 582396
Aarsberetn.Norg.Fisk., (6):39 p.
Vintersildfisket 1957 (Winter herring fishery 1957)

Fisheries statistics of the catches, participation & the use of gear in various areas along Norwegian coast.

FAO:tl M

Hoar, W.S. (1958) 582399
Canad.J.Res.(Zool.), 36:113-21
Effects of synthetic thyroxine and gonadal steroids on the metabolism of goldfish

Studies of both standard & active metabolism of Carassius auratus agree with most previous findings that thyroid hormone lacks a calorigenic 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.

FAO:sjh F

Norway. Fiskeridirektøren (1958) 582397
Aarsberetn.Norg.Fisk., (10):19 p.
Beretning om selfangsten, håkjerring-fisket og overvintringsekspedisjonene i 1957 (Report on seal and Greenland shark fishery and overwintering expeditions during 1957)

Statistics of sealing in the Newfoundland & Greenland areas during 1957.

FAO:tl M

Warburton, F.E. (1958) 582400
Canad.J.Res.(Zool.), 36:123-5
Boring sponges, Cliona species, of eastern Canada, with a note on the validity of C. lobata

Cliona celata occurs in Prince Edward I.; C. lobata in Prince Edward & the Gulf shore of New Brunswick; C. vastifica in the B. of Fundy, off Sable I., off Prince Edward I., & off Newfoundland. Intraspecies grafts of C. celata & C. lobata succeeded, but interspecies grafts failed.

FAO:sjh M

Lawler, G.H. (1958) 582401
Canad.J.Res.(Zool.), 36:127-9
Variation in number of dorsal spines in the brook stickleback, Eucalia inconstans

Comparative study of occurrence of specimens with 6 dorsal spines in Manitoba & Ontario lakes.

FAO:sjh F

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

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

Montreuil, P.L. (1958) 582404
Canad.J.Res.(Zool.), 36:205-15
Corynosoma magdaleni sp. nov. (Acanthocephala), 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

Montreuil, P.L. (1958) 582405
Canad.J.Res.,(Zool.), 36:263-4
Relaxation and fixation of Acanthocephala

Technique for treatment of those helminth parasites from fish, seals etc.

FAO:sjh M

Vranovský, M. (1958) 582406
Biológia, 13:451-62
Zoznam perloočiek (Cladocera) zistených Žitnom 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:drr F

Babaian, K.E. (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 developping 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 perspktivy 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 Acepenseridae, 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 issledovatelskikh 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 & smalt 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 issledovatelskikh 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

Korzhnev, 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

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

Nikoliukin, N.I. (1957) 582417
Proc. of the Conference on Fisheries, Moskva, 1954,:71-80
Otdalennaia 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.

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

Mazilkin, I.A. (1957) 582418
Proc. of the Conference on Fisheries, Moskva, 1954,:81-7
Biologicheskii metod borby s saprolegnioi (Biological methods of control over saprolegnia)

Use of antagonistic microbes, microlysic bacteriae, for control over saprolegnia. Positive results in incubators. Possibility of extending this method to natural environments of fish spawn.

FAO:go MF

Gerbilskii, N.L. (1957) 582419
Proc. of the Conference on Fisheries, Moskva, 1954, :89-93
Gistofiziologicheskii analiz pishchevaritelnoi sistemy osetrovykh i kostistykh na rannem periode raznitiia 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

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fertilization of spawn, but prevention of wholesale loss of larvae at the transition stage from yolk to natural food consumption.

FAO:go MF

Poliakov, G.D. (1957) 582422
Proc. of the Conference on Fisheries, Moskva, 1954, :104-16
Sravnenie effektivnosti ispolzovaniia kormov prudovumi 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.

FAO:go F

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 MF

Konstantinov, A.S. & N.S. Konstantinova (1957) 582421
Proc. of the Conference on Fisheries, Moskva, 1954, :95-102
Organzatsiia razvediniia zhivykh kormov (enkhitroid i khironomid) na rybovodnykh zavodakh (Organization of raising living fodder (enchytroid & chironomidae) on fish farms)

Description of artificial breeding, yields & value as fish-food. Methods for lasting preservation of living fodder.

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Gerbilskii, 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 sciontific 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.
FAO:go MF

Kazanskii, B.N. (1957) 582425
Proc. of the Conference on Fisheries, Moskva, 1954, :130-7
Analiz iavlenii, proiskhodiashchikh v iaitseklotkakh osetrovykh pri primenonii gipofizarnykh inicktsii (Analysis of phenomena occurring in the ovicells of sturgeon after hypophysical injections)

Results of citological study of nuclear alterations within ovicells of sturgeon from the moment of hypophysical injection to complete ovulation & then after fertilization to the first dividing of cleavage nuclei.

FAO:go MF

Vernidub, M.F. (1957) 582428
Proc. of the Conference on Fisheries, Moskva, 1954, :160-74
Biologicheskoe obosnovanie metodov polucheniia lichinok osetrovykh iz obeskleinnoi ikry v usloviiakh proizvodstva (Biological foundation of methods used for obtaining Acipenseridae larvae from expressed deglutinized spawn under conditions of commercial breeding)

Quality of roe. Causes of variable properties of roe. Effect of deglutination & of incubation methods on the development & losses of eggs & larvae.
FAO:go MF

Persov, G.M. (1957) 582426
Proc. of the Conference on Fisheries, Moskva, 1954, :139-49
Eksperimentalnye i tsitologicheskie dannye o protsesse oplodotvoreniia u sterliadi v sviazi s metodikoi osemeneniia (Experimental and citological 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. güldenstädti) with the scope of stocking new water reservoirs with freshwater 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.

FAO:go MF

Sadov, I.A. (1957) 582427
Proc. of the Conference on Fisheries, Moskva, 1954, :151-9
O roli samtsa v nereste 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 roe for artificial breeding. Data on artificial fertilization, sperm, dispermia, polyspermia.
FAO:go MF

Gordienko, O.L. (1957) 582430
Proc. of the Conference on Fisheries, Moskva, 1954, :180-5
Opyt promyshlennogo razvedeniia 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

Milshtoin, 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

Konovalov, P.M. (1957) 582432
Proc. of the Conference on Fisheries, Moskva, 1954, :195-205
Itogi opytnykh rabot po vyrashchivaniiu molodi sevryngi v gruntovykh basseinakh
(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

Evropeitseva, N.V. (1957) 582433
Proc. of the Conference on Fisheries, Moskva, 1954, :206-18
Osobennosti perekhoda v pokatnoe sostoianie molodi lososei pri prudovom vyrashchivanii (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

Lovanidov, V.Ia. (1957) 582434
Proc. of the Conference on Fisheries, Moskva, 1954, :219-26
Vyrashchivanii molodi amurskoi osennei 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

Cherniavskaia, V.K. (1957) 582435
Proc. of the Conference on Fisheries, Moskva, 1954, :227-34
Opyt raboty Bidzhanskogo i Teplovskogo rybovodnykh zavodov po razvedeniiu osennei koty (Experience at the Bidjan & Teplovka 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

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.
FAO:go MF

Bezdenezhnykh, P.G. (1957) 582437
Proc. of the Conference on Fisheries, Moskva, 1954, :243-50
Pervye resultaty rybovodnogo osvoeniia aralskogo usacha i organizatsia ego iskusstvennogo rozvedeniia v usloviiakh stroitelstva Kzyl-Ordinskoi plotiny na Syr-Darie (First results of commercial acclimatization of Barbus brachycephalus & 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

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larvae from spawning grounds to ostuary. Raising fry in ponds. Possibility of balancing the effect on maturation of reproducers, produced by the construction of the dam.

FAO:go M

Borliand, T.B. (1957) 582440
Proc. of the Conference on Fisheries, Moskva, 1954, :259-67
O napravlennom formirovanii zapasov karpovykh ryb v iuzhnykh moriakh SSSR i promyshlennom razvedenii kutuma (Planned development of Cyprinidae reserves in southern seas of URSS and commercial breeding of Rutilus frisii kutum)

Data on reproduction biology & breading biotechniques of rheophilous cyprinidae. Pattern & indices required for R. frisii commercial breading.

FAO:go MF

Tanaisichiuk, V.S., I.K. Vonokov & T.K. Nebolsina 582441 (1957)
Proc. of the Conference on Fisheries, Moskva, 1954, :268-74
Biologiia 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
Razvedenie rybtsa i shemai 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

Milshtein, V.V. (1957) 582442
Proc. of the Conference on Fisheries, Moskva, 1954, :275-82
Razrabotka i vnedrenie 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 fertilizer, 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 vodoemakh nerestovo-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

Karzinkin, G.S. & I.A. Shokhanova (1957) 582444
Proc. of the Conference on Fisheries, Moskva, 1954, :289-95
Nekotorye printsipialno novye polozheniia v probleme udobreniia vodoemov (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

Nikolskii, P.D. (1957) 582445
Proc. of the Conference on Fisheries, Moskva, 1954, :296-9
Effektivnost uplotnennykh posadok sudaka na nerest v usloviiakh nerestovo vyrostnykh 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

Mordukhai-Boltovskoi, F.D. (1957) 582446
Proc. of the Conference on Fisheries, Moskva, 1954, :300-7
Razvitie fauny bezpozvonochnykh v nerestovo-vyrostnykh vodoemakh na Donu v sviazi s vyrashchivaniem v nikh molodi ryb (The development of invertebrate 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 F

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

Rodina, A.G. (1957) 582448
Proc. of the Conference on Fisheries, Moskva, 1954, :314-22
Dinamika biomassy bakterii i kharakter mikrobialnykh protsessov v rybovodnykh prudakh pri organicheskom i mineralnom udobrenii (Dynamics of the biomass of bacteria and the character of microbial processes in fish breeding ponds in which organic and mineral fertilizer is applied)

Description of bacteria & their development following introduction into ponds of organic (withered grass) or mineral (superphosphate or/& ammonium nitrate) fertilizer, or both. Abundance of

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bacteri-plankton & phytoplankton favours the development of zooplankton.

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should not be eliminated in fish ponds, but kept under control.

FAO:go F

Vinberg, G.G. (1957) 582450
Proc. of the Conference on Fisheries, Moskva, 1954,:323-9
Biologicheskie osnovy effektivnogo primeneniia mineralnogo udobreniia 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 F

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 F

Shpet, G.I. (1957) 582451
Proc. of the Conference on Fisheries, Moskva, 1954,:330-9
Regulirovanie vodnoi rastitelnosti v rybovodnykh prudakh s tseliiu uvelicheniia kolichestva bentichеskikh 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 phytophilous animal life should not be underestimated. 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-food resources. Bearing on vegetation. Effect on fish productivity. Estivation as a sanitary measure.

FAO:go F

Molnikov, G.B. & A.M. Chaplina (1957) 582455
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 rezhim zimovki karpa v kolkhoznykh prudovykh khoziaistvakh 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 O_2: CO_2 ratio.

FAO:go F

Stroganov, N.S. (1957) 582459
Proc. of the Conference on Fisheries, Moskva, 1954,:386-98
Ekologo-fiziologicheskie issledovaniia po vurashchivaniiu osetrovykh ryb v prudakh Moskovskoi oblasti (Ecological & physiological research for sturgeon breeding in ponds of the Moscow region)

Growth of Aciponseridae in ponds. Monoculture 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-breading, procedure & results.

FAO:go F

Bauer, O.N. (1957) 582460
Proc. of the Conference on Fisheries, Moskva, 1954,:399-403
Vliianie parazitarnykh zabolevannii 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 estivation of ponds (draining & leaving fallow for a season, treatment of the bottom), combined breeding of unrelated spp., control over living feed.
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 vrednymi nasekamymi v prudovykh khoziaistvakh (Use of ultraviolet 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

Kokhnenko, S.V. (1957) 582464
Fish.Ind., Moscow, 33(4):66-8
Rasprostranenie i ulovy ugria v vodoemakh 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 bassein Amura i voprosy rybnogo khoziaistva (Rearrangement 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. Konradt (1957) 582465
Fish.Ind., Moscow, 33(4):68-9
K voprosu ob akklimatizatsii Chudskogo siga v vodoemakh Moldavii (Problem of acclimatizing lake Chudskoe 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 bassein (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 seldi 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

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

Kiselev, O.N. (1957) 582469
Fish.Ind., Moscow, 33(5):62-5
O raspredelenii i povedenii 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

Chertov, L.F. (1957) 582470
Fish.Ind., Moscow, 33(5):66
Borba s zagriaznieniem rybokhoziaistvennykh vodoemov - vazhnaia gosudarstvennaia 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

Berdichevskii, L.S. (1957) 582471
Vop.Ikhtiol., (9):3-18
Sostoianie i puti uvelicheniia zapasov tsennykh promyslovykh ryb v vodoemakh 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. Remedies: conservation measures, regulated fishing, artificial breeding.
FAO:go MF

Palenichko, Z.G. (1957) 582472
Vop.Ikhtiol., (9):19-28
Osnovnye zakonomernosti razvitiia belomorskoi 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.Ikhtiol., (9):29-54
Znachenie nizoviev delty Volgi dlia nereста 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

Alekseeva, S.P. (1957) 582474
Vop.Ikhtiol., (9):55-67
Materialy po izucheniiu 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 oviceils. Studies carried out in natural & artificial surroundings.

FAO:go MF

Altukhov, K.A. (1957) 582475
Vop.Ikhtiol., (9):68-77
Nerestilishcha i usloviia nereста seldi v Kandalkshskom zalive (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

Zhukovskii, G.M. (1957) 582476
Vop.Ikhtiol., (9):78-90
Nereстovye migratsii i mesta nereста 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

Zamakhaev, D.F. (1957) 582477
Vop.Ikhtiol., (9):91-114
Izmeneniia polovogo i razmernogo sostava seldei 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

Ginsburg, Ia.I. (1957) 582478
Vop.Ikhtiol., (9):115-28
O biologii molodi osetrovykh reki Kury (Biology of young Aciponseridae in the river Kura)

Data on spawning & fry behaviour in natural conditions, prior to construction of hydraulic works, useful for rational breeding of Aciponseridae. 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.Ikhtiol., (9):129-32
O 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 harmessing of the Don riverflow.

FAO:go M

Datsko, V.G. (1957) 582480
Vop.Ikhtiol., (9):133-41
Gidrokhimicheskii rezhim 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 strata: upper oxydizing & the lower anaerobic reducing zones. Data on studies carried out for disclosing contents & vertical exchange of substances & the conditions for development of marine life.

FAO:go M

Erik, V.A. (1957) 582481
Vop.Ikhtiol., (9):142-3
Ob ozimykh i iarovykh rasakh u rechnoi minogi Lampetra fluviatilis L.
(Winter breading & summer breeding strains of the river lamprey L. fluviatilis L.)

The existing winter & summer broods 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

FAO/58/9/6635

Protasov, V.R. (1957) 582482
Vop.Ikhtiol., (9):144-6
Reaktsiia nekotorykh Chernomorskikh ryb na svet (Reaction to light of some Black sea fish)

Description of experiments performed in aquariums on scad, sciaenids & young sturgeon. Different reaction to light with regard both to colour & intensity.

FAO:go MF

Bukirev, A.I. & Z.M. Pushkina (1957) 582483
Vop.Ikhtiol., (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

Zhukova, A.I. (1957) 582484
Vop.Ikhtiol., (9):152-68
Znachenie microorganizmov dlia kormovoi bazy ryb (Importance of micro-organisms 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

Assman, A.V. (1957) 582485
Vop.Ikhtiol., (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

Braginskii, L.P. (1957) 582486
Vop.Ikhtiol., (9):188-91
Razmerno-vesovaia kharaktoristika rukovodiashchikh form prudovogo zoo-planktona (Charactoristics 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

Korzhuev, P.A. & L.I. Radzinskaia (1957) 582487
Vop.Ikhtiol., (9):192-6
O mikrometode opredeleniia gemoglobina (Micro-method for disclosing hemo-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

Drosschor, Th.G.N. & A.J.J. Gispen van der Weg (1958) 582488
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

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

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

Irénée-Marie, 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 & E.D. Le Cren (1958) 582492
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 freshwater 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, Keratella, Euchlanis, Platyias, Rotaria, Trichotria, Mytilina, Anuraeopsis, Notholca, Trichocerca, Notommata, Eosphora, Dicranophorus & Ptygura.

FAO:tjj F

Hosse, 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 Jukskei Crocodile Flusssystem (Hydrobiological investigations in Transvaal II. Self purification in the Jukskei-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. Tweed (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 Süsswasser (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

Moons, N.L. Wibaut-Isebree (1958)582499
Hydrobiologia, 11:275-98
Plankton from the Noordzeekanaal

Describes studies, 1936-37, on the relationships of the plankton in this coral 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:tl M

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 acto-myosin with respect to electrophoresis, sedimentation, viscosity & solubility.

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:tl M

Lawler, G.H. & N.H.F. Watson (1958) 582506
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 Triaenophorus. Lists flora & fauna including 13 spp. of fish & a sp. of fish parasites.

GLK:wad F

McLaren, 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

Aldendice, D.F., W.P. Wickett & J.R. Brett (1958) 582508
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

FAO/58/9/6635

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

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

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

FAO/58/9/6635

Herbert, D.W.M. & H.T. Mann (1958) 582512
Salm.Trout Mag., (153):99-101
The tolerance of some frosh-water fish for sea water

Methods used & results obtained in experiments with Rutilus rutilus & Perca fluviatilis.

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

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

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

Hoyle, 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 & T. Tanaka (1958) 582516
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 & M.O. Baron (1958) 582519
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

Beauchamp, 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

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

Eltringham, S.K. & A.R. Hockley (1958) 582523
Nature, Lond., 181:1659-60
Coexistence 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

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

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

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

Walford, L.A. (1958) 582527
Ronald Press Co., New York, 305 p.
Living resources of the sea

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.

:sjh M

Found, H.R. (1957) 582530
Trade News, 10(6):3-7
The Atlantic oyster industry

A short review article of this Canadian Atlantic coast industry, under headings: leases, experimental farms, starfish control. Notes on water quality, resistant strains to 'Malpeque' disease.

FAO:sjh M

Sastry, A.V.R. & C. Mahadevan (1957) 582528
J.sci.industr.Res., 16B:429-31
Radioactivity of sea-floor sediments off Visakhapatnam

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 those sediments.

FAO:sjh M

Anonymous (1957) 582531
Trade News, 10(6):8-12
Emphasis on research at INPFC Meeting

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.

FAO:sjh MF

Frick, H.C. (1957) 582529
Trade News, 10(5):14-9
The commercial fisheries of Canada

A short review under headings : history, resources, products, marketing & prices, future demand, prospects for development. Gives table of summary production statistics.

WAD:sjh MF

Laubenfels, M.W. de (1957) 582532
System.Zool., 6:156-9
A problem in taxonomy: the sponge genus Reniera

Examines synonymy of Raynoria, Reniera, Halichondria & Haliclona.

HR:sjh M

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

Dyck, S. (1957) 582534
Mitt.Inst.Wasserwissensch., 1:87 p.
Die Erfassung der Ausgleichswirkung von Talsperren auf die natürlichen Abfluszschwankungen 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

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

FAO/58/9/6635

Kufferath, 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

Russell, C.R. (1957) 582537
Rec.Cant.Mus.,7(1) New Zealand
Some additions to the rotatoria of the Chatham Islands

F

Ružička, (1957) 582538
Proslia, 29:132
Die Desmidiaceen der oberen Moldau (Böhmerwald) (Desmidiaceae from the upper Moldavia (Böhmerwald - Cesky Les))

F

Althaus, B. (1957) 582539
Wiss.Z.Univ.Halle Math-Nat., 6:117-58
Faunistisch-ökologische Studien an Rotatorien salzhaltiger Gewässer Mitteldeutschlands (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 mod 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 Foundation (1957) 582540
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 protozoology & 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

~~FAO/59/9/6635~~

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 Panchax 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:wad MF

FAO/58/9/6635

Kazancheev, 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 were fishes concentrate. Description of an experiment carried out on the northern fishing grounds of the Caspian sea.

FiB:go M

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

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

Komarova, I.V. & V.A. Musselins (1957) 582554
Fish.Ind., Moscow, 33(6):47-51
Opyt uskorennogo vyrashchivaniia dvukhletkov 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

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

Bervald, E.A. & O.D. Romanycheva (1957) 582556
Fish.Ind., Moscow, 33(6):52-4
O letnem 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
Mechenie oligozhet (Enchytraeus) radioaktivnym strontsiem (Marking of oligochaeta (Enchytraeus) by radioactive 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

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

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

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

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

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

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) 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) 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) 582566
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) 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) 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) 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) 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) 582572
Comm.Fish.Rev., 20(6):36
North Atlantic fisheries investigations - Haddock ecology studies continued

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) 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 telemeter tested and true cod tagged

Contents as per title.

FAO:sjh M

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) 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) 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) 582579
Comm.Fish.Rev., 20(6):43
Salmon - Niacin deficiency involved in salmon sunburn

Contents as per title.

FAO:sjh MF

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) 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) 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) 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) 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) 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 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) 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

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) 582597
Comm.Fish.Rev., 20(6):76
Surinam - Shrimp fishery trends

Contents as per title.

FAO:sjh M

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

FAO/58/9/6635

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 M

Anonymous (1958) 582602
Comm.Fish.Rev., 20(5):20-1
Alaska - Fishery regulations for 195[illegible] approved

Pink salmon runs in southeastern Alaska.

FAO:sjh MF

Enequist, P. (1958) 582600
Göteborg, 282 p.
Årsbok 1957 Göteborgs och Bohus Läns Havsfiskeförening (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 sg 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. SCOFIELD

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 M

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) 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) 582607
Comm.Fish.Rev., 20(5):31-2
Lobsters - Metal container used for shipping live lobsters

Contents as per title.

FAO:sjh M

FAO/58/9/6635

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) 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) 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

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) 582612
Comm.Fish.Rev., 20(5):37
Oysters - Increased starfish population threatens Long Island industry

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) 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) 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) 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) 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) 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) 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) 582621
Comm.Fish.Rev., 20(5):48-9
Whaling - United States catch in 1957

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
Swedon - Research on artificial propagation of salmon

Contents as per title.

FAO:sjh MF

Anonymous (1958) 582630
Comm.Fish.Rev., 20(5):69
Swedon - Fishing company to experiment with electrical shock fishing

Contents as per title.

FAO:sjh MF

Thompson, S.H. (1957) 582631
Statist.Dig.U.S.Fish Wildl.Serv., (40): 88 p.
Alaska fishery and fur-seal industries

M

FAO/58/9/6635

Selden, 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 foodfish 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

Hong Kong, Registrar of Cooperative Societies & Director of Marketing (1957) 582633
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

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.

:sjh M

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

Lee, H.B. (1958) 582636
Dep. van Landbouw, Paramaribo, Surinam, 20 p.
Zeevisserij-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

Garcia 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

582639
(Card 2)
International Law Commission are analyzed, & another movement towards the dividing-up of the seas is discussed.

:sjh M

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 Arastırmaları B., (1):43 p.
Balıkçı teknelerine makina seçimi
(Selection of engines for fishing boats)

M

Krefft, G. (1958) 582645
Wiss.Informat.Fischereiprax., 6:46-7
Markierung von Elbheringen in Cuxhaven in der Zeit vom 29. April bis 3. Mai 1958
(Tagging of Elbherings in Cuxhaven in the period of 29 April - 3 May 1-58)

Contents as per title.

FAO:dr M

Phillips-Birt, D. (1957) 582643
Philosophical Library, New York, 367 p.
Naval architecture of small craft

Historical approach is used to set forth the problems of design of small vessels of many types. A chapter on fishing vessels.

:sjh MF

Moorman, R.B. (1957) 582646
Trans.Amer.Fish.Soc., 86:361-70
Some factors related to success of fish populations in Iowa farm ponds

Comparative study of Lepomis, Pomoxis, Ameiurus, Carassius, Pimephales & Notemigonus spp. in 60 ponds, & relation of these to rate of shocking, vegetation, turbidity & temperature.

SJH:sjh F

FAO/58/9/6635

Van Oosten, J. & H.J. Deason 582178
Van Oye, P. 582494
Van Someren, V.D. 582510
Van Wool, P.B. 582343
Verbolov, V.I. 581885
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Vikse, H. 582396
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Warburton, B., C. Hubbs & D.W. Hagen 581938
Warburton, F.E. 582400
Ward, J.W. 581936
Washington (State), Department of Fisheries 582097
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Watson, N.H.F. 582506
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Woodhead, N. & R.D. Tweed 582500
Woodland, B. 582291
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Yentsch, C.S. & J.H. Ryther 582386
Yonge, C.M. 581967
Young, J.Z. 581846
Yuen, H.S.H. & F.C. Jung 582194

Zaichik, K.S. 582468
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Zhukovskii, G.M. 582476
Ziporin, Z.Z., H.F. Kraybill & H.J. Thach 582175

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