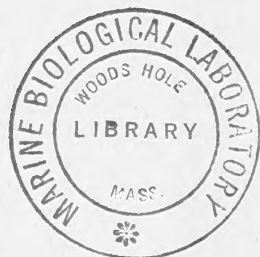


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# CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

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*Compiled by*

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# CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

## VOLUME 7—EXPLANATION OF COVERAGE AND ARRANGEMENT

### 9. ERRATA AND ADDENDA to "EXPLANATION OF COVERAGE AND ARRANGEMENT" (contd.)

#### 2. GENERAL ARRANGEMENT

In paragraph one, delete the second sentence and enter the following in its stead:

"The references are serially numbered and arranged according to the main subject headings of the Subject Index, under which they are arranged according to their marine, freshwater or general relevance."

#### 3. REFERENCES

##### 3.1 Authors

###### *Names and Abbreviations of Organizations and Projects*

Insert in alphabetic order the following:

ANZAAS	..	Australia, New Zealand Association for the Advancement of Science
CIEN	..	.. see IANEC
IANEC	..	Inter-American Nuclear Energy Commission Commission Interaméricaine de l'Énergie Nucléaire Comisión Interamericana de Energía Nuclear Comissão Inter-Americana de Energia Nuclear
IBP	..	International Biological Programme

#### 5. INDEXES

##### 5.1 Author

Delete the previously amended first paragraph and enter the following in its stead:

"The pages are designated by the letter symbol 'A'. The rules of the Marine Library Association are followed for alphabetic order and the co-authors are included in the main Author Index, and are preceded by symbols '2nd' and '3rd'. If there are more than three authors, the convention '*et al.*' is used and the subsequent co-authors are not included in the index. The year of publication is given in parenthesis after each author's name. Several publications by the same author are entered in order of year of publication and within that order by strict numerical order of entry numbers."

7:N2

# CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

## VOLUME 7—ERRATA

62-001er to 62-009er

- Annotation:* Australia *should read*  
Austral Is. 62-001er  
(61-12213)
- Author:* Dollfus, R. Ph. *should read*  
Dollfus, R. P. 62-002er  
(62-00350)
- Author:* Cooke, Wm. B. *should read*  
Cooke, W. B. 62-003er  
(62-00639)
- Author:* Roden, G. I. & J. L. Reid *should read*  
Roden, G. I. & J. L. Reid, Jr. 62-004er  
(62-00658)
- 32 (1) : 145-64 *should read*  
32 (2) : 145-64 62-005er  
*Insert—En* (62-02110)
- 32 (1) : 167-71 *should read*  
32 (2) : 167-71 62-006er  
*Insert—En* (62-02111)
- Author:* J. J. Schule *should read*  
J. J. Schule, Jr. 62-008er  
(62-00685)
- Author:* J. H. D. Strickland *should read*  
J. D. H. Strickland 62-009er  
(62-00108)



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SCIENCES AND FISHERIES

VOLUME 7—ADDENDA

62-001ad

*Title:* (Fishing industry and forestry policy in the Sudan-  
Sahelian zone)

62-001ad  
(61-13263)



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MF

62-00415

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MF

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- Reports on value of food from different natural sources and ways and means of increasing the food value.

**Zobel, H.** (1960)F  
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(Increase in trout production by systematic selection of breeders)

Reviews requirements for breeding and emphasizes on the importance of selected breeding stocks.

**Mattheis, T.** (1960)F  
62-00496*Dtsch. FischZtg.*, 7 (12) : 353-60Ein Bekämpfungsversucht der Bauchwassersucht bei  $K_{2-3}$  im Mellensee, zugleich ein Beitrag zur Karpfenwirtschaft in Seen (An attempt to control ascites in  $K_{2-3}$  in Lake Mellensee; at the same time a contribution to carp management in lakes)**Schäperclaus, W.** (1960)F  
62-00497*Dtsch. FischZtg.*, 7 (11) : 341-5

Durch intensive Fütterung zur Erhöhung der Marktproduktion von Karpfen (Intensive feeding as a means for enlarging the production of marketable carp)

Describes relationship between restocking number, feeder quotient and per ha production in carp raising farms.

**Menzel, H.-U.** (1960)F  
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Zur Frage der Produktionsteigerung in der Binnenfischerei unter besonderer Berücksichtigung der Satzfishproduktion in Karpfenteichwirtschaften (The question of increasing freshwater fish production with special consideration of the fingerling production in carp farms)

**Schell, K.** (1960)F  
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Die teichwirtschaftliche Bewirtschaftung von Seen (The pond culture pattern management of lakes)

Reports on ways and means to improve lake-fish production by application of pond culture techniques.

**Woynárovich, E.** (1960)F  
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Weshalb sich der Teichwirt für den Erreger des Wurmstars, dessen Entwicklung und Bedeutung interessieren sollte (Why should the fish breeder be interested in the determinant factor of worm cataract, its development and importance)

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*Biológia*, 15 (9) : 671-9

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*Fischwirt*, 11 (4) : 106-17

Leistungsprüfungsversuche mit eingelebten Karpfenstämmen durchgeführt im Jahre 1960 (Efficiency tests with homed carp strains carried out during 1960)

A record covering three strains from southern and northern Germany respectively.



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- Schäperclaus, W.** (1961)  
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Grossversuche mit Frühjahrsinjektionen von Tetracyclin—sowie Herbstinjektionen von Chloramphenicol und Streptomycin zur Bekämpfung der infektiösen Bauchwassersucht des Karpfens (Big-scale experiments with spring injection of tetracyclin—and autumn injections of chloramphenicol and streptomycin for the control of infectious dropsy of carp.)  
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- Steffens, W.** (1961)  
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Der Anteil der Schuppen am Körpergewicht des Karpfens (*Cyprinus carpio*) (The weight of scales compared to the total weight of carp, *Cyprinus carpio*)  
Reports on the percentage of scale waste.
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Reports age and growth relationship in correlation to intensity of fishing.
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Auswahl hochwertiger Karpfenstämme im Beistungsprüfungsversuch (Ergebnisse 1956) (Selection of high value carp strains during efficiency test—Results of 1956)  
Reports on 11 sample tests and distinguishes as to percentage of vastly, average and slowly growing specimens.
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### GENERAL (OCEANOGRAPHY, LIMNOLOGY, AND FISHERIES)

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The International Indian Ocean Expedition  
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Life in the sea  
A book of photographs, a few in colour but mainly black and white, of marine invertebrates and a few fishes.
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 Description of the routes and the nature of the islands and coasts.

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 La 'Thalassa', nouveau chalutier océanographique de l'Institut Scientifique et Technique des Pêches Maritimes (The 'Thalassa', new oceanographic trawler of the Scientific and Technological Institute of Marine Fisheries)

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- IA 16 (5) 3586. Metron depth meter incorporates an amplifier integrator, a simple form of computer, which selects the signal received back from the sea-bed at each sounding and applies an appropriate voltage to the display meter.
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*Electronics*, 34 (22) : 41-3  
 Deep-ocean velocimeter aids sonar system design
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*Proc. Instrum. Soc. Amer.*, 15 (1), Pap. 30-NY60, 10 p.  
 An indoor underwater test facility
- IA 16 (8) 5760. Discusses problems in the study of the sensitivity, frequency response and directional response of transducers using a reverberant tank. Do 61-205me.
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- IA 16 (8) 5765. Gives description of the instrument used with a sonar sounding set. Precise indications of depth are recorded on dry electrosensitive paper at the same time as other information. Do 61-205me.

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Sonar to survey Arctic ocean shelf transmits through ice and water
- IA 16 (10) 7157.
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Progress in underwater echo ranging
- IA 16 (11) 7511. Discusses results of recent sea trials with echo-sounding equipment in 'Discovery II'.
- M  
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- Mackenzie, K. V.** (1961)  
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Sound-speed measurements utilizing the bathyscaph 'Trieste'
- IA 16 (11) 7678. Account of observations where sound speed measurements obtained to a depth of 5760 m, as well as those made in shallow waters by velocimeters and Nansen bottles lowered from a surface ship. The acceleration of gravity was measured at a depth of 2286 m.
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Pingers and thumpers advance deep-sea exploration
- IA 16 (4) 2643. Describes a sonar pinger, used in distance measurement, and a sonar thumper, a device for releasing a large amount of acoustical energy into water in the form of a clear, l.f. repeatable pulse. The thumps are a substitute for the explosions sometimes used for studies of the earth's crust under the sea.
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 Note on a new transistorized echosounder for survey to 4000 fathoms.
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 Contains notices, decisions, new applications and comments on cases of zoological nomenclature, considered by the International Commission on Zoological Nomenclature.
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 Report for fiscal year October 1, 1959-September 30, 1960  
 Incl. reports on hatcheries, fisheries administration and research in connection with inland and marine sport and commercial fisheries. Contains information on: use of *Tilapia nilotica* and *T. mossambica* in Alabama lakes and ponds; attempts to develop cold-resistant strains of *Tilapia*; use of Israeli carp and *Tilapia* to control aquatic plants.
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 Mimeo, 6 p.  
 Second five year plan 1961-1965. Departmental plan—Fisheries Department  
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 Summaries of research on the fish-power problems and related work by fisheries agencies in British Columbia  
 Account of studies related to fisheries problems associated with industrial development.
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 Bubble transducer for radiating high-power low-frequency sound in water  
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 IA 16 (2) 1396. Describes transducer which has many applications both in air and water. It can be used in fathometer and sonar navigation systems.
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 Portable depth finder for small boats  
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Popular article ill. use of skin diving in freshwater fisheries work.
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A water maze for use in studies of drive and learning  
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tions in water temperature and 2 performance measures, mice were required  
to learn a black-white discrimination. Swimming time was found to be  
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The availability of a miniature bomb calorimeter for ecology

Samples of biological material as small as 6 mg can be burned and estimation of calories can be provided with an error of the order of 5%.

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Tides and currents

Re 61-13096 and 61-13097.

- Hubbs, C. L.** (1961) M  
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Some highlights from the natural radiocarbon datings of La Jolla Laboratory

Do 61-204me. Abstr. only. Tests bear on geologic events, particularly changes in sea level.

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Le milieu interstitiel des sables submergés lacustres (The interstitial environment of sand in submerged lakes)

Studies limitative factors, oxygen and sulphates and their effects on the fauna based on observations in the lake of Geneva.

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*Discovery*, 22 (12) : 560  
Physical oceanography

Re 61-13096 and 61-03097.

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Carbon-14 compounds

Chapters deal with the production of the isotope, chemical synthesis, biological methods of labelling, peculiar features of carbon-14 compounds, analysis measurement and precautions.

**Cooper, L. H. N.** (1961)

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Comparison between three methods of measuring underwater illumination in coastal waters

Two investigations are here combined which developed *ad hoc* at the end of the 2nd World War and shortly afterwards. The 1st compared extinction coefficients of sea water obtained by an aerial photographic method—Moore, 1947—with those obtained on water samples in a Pulfrich photometer. The 2nd compared measurements with the Pulfrich photometer with measurements by the late Dr. W. R. G. Atkins in the sea with photoelectric cells. The intention was to achieve a correlation between the aerial photographic technique of Moore and the photoelectric cell methods of Atkins and Poole using the Pulfrich photometer as a bridge. Repetition by more modern techniques felt to be desirable, has never been achieved.

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**Armstrong, F. A. J. & G. T. Boalch** (1961)

*J. Mar. biol. Ass. U.K.*, 41 : 591-7

The ultra-violet absorption of sea water

Measurements of absorption spectra between 200 and 400  $m\mu$  made with a spectrophotometer. At short wave-lengths natural has double absorbancy of artificial sea water. Difference in samples from shallow depths is ascribed to organic material. Regional variations found. Measurements of U.V. absorption may supplement other physical methods of characterizing water masses.

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**Rotschi, H.** (1960)

*Rapp. sci. Inst. franç. Océan.*, (17) : 59 p.

'Orsom III'—Résultats des croisières diverses de 1959—Océanographie physique ('Orsom III'—Results of various 1959 cruises. Physical oceanography)

Gives results of observations during June and September in New Hebrides Channel and in October in New Caledonia waters.

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**Rotschi, H.** (1960)

*Rapp. sci. Inst. franç. Océan.*, (18) : 58 p.

'Orsom III'—Résultats de la croisière 'Dillon'. 1ère partie. Océanographie physique ('Orsom III'—Results of the cruise 'Dillon'. 1st part. Physical oceanography)

Reports May 1960 observations on temperature, salinity, sigma-tG between New Caledonia and Solomon Islands.

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**Rotschi, H.** (1961)

*Rapp. sci. Inst. franç. Océan.*, (19) : 3-49

'Orsom III'—Résultats de la croisière 'Dillon'. 2ème partie. Chimie ('Orsom III'—Results of the cruise 'Dillon' 2nd part. Chemistry)

Co 62-00628. Reports observations on surface and vertical distribution of oxygen, pH, phosphates, alkalinity, carbonic acid, in Solomon Islands, New Caledonia waters and Coral Sea.

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- Rotschi, H.** (1961) M  
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*Rapp. sci. Inst. franç. Océan.*, (20) : 5-38  
 'Orsom III'. Croisières diverses de 1960—Océanographie physique  
 ('Orsom III'.—Various cruises, 1960. Physical oceanography)

Accounts of methods and results of observations in the New Caledonia waters—Apr. 1960 ; gives data on surface and vertical distribution of temperature, salinity, density.

- Anon.** (1961) M  
62-00631  
*Rapp. sci. Inst. franç. Océan.*, (20) : 53-9  
 'Orsom III'. Croisières diverses de 1960. Observations bathythermiques faites au cours des croisières de pêche 60-5 et 60-10 ('Orsom III'. Various cruises, 1960. Bathythermic observations made during the fishing cruise 60-5 and 60-10)

Gives some new isobaths for an area off the New Caledonia coast.

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*Rapp. sci. Inst. franç. Océan.*, (23) : 3-44  
 'Orsom III'. Résultats de la croisière 'Epi'. 2ème partie. Chimie ('Orsom III'. Results of the cruise 'Epi'. 2nd part. Chemistry)

Reports methods used and gives data on surface water oxygen, phosphates and vertical distribution of oxygen, phosphorus, pH, total alkalinity, carbonic acid in the Solomon Islands area and north of New Caledonia. Discusses results.

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*Hydrobiologia*, 17 (4) : 265-86  
 Observations on tropical rainpools and general remarks on temporary waters. Fr

Discusses limnological and biological aspects of rainpools; and classifies temporary waters in the Sudan, and discusses euphyllpod distribution, dynamics and as indications of temporary waters.

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 Thermal balance of an ice cover of the central Arctic

En 58-6040. Available from the Office of Technical Services, Washington, D.C. Based on observations by drifting station "North Pole-2", computes magnitude of thermal balance of an ice cover.

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62-00635  
*Vestn. leningr. Univ. (geol. i geogr.)*, 14 (6) : 132-6  
 O strukture kolebanii klimata Arktiki v poslednie desiatiletia (The pattern of climatic fluctuation structure in the Arctic during the last decades)

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 The pattern of climatic fluctuation structure in the Arctic during the last decades

*En* 62-00635. Available from the Office of Technical Services, Washington, D.C.

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*New Scient.*, 12 (255) : 48  
 Submarine speleology

Short reference to underground waters of the Garraf limestone massif in Spain flowing into the sea through springs below the sea level, methods of study.

**Anon.** (1961) M  
 62-00638  
*New Scient.*, 12 (261) : 440  
 Spectrum of light reflected by the sea

Short notice on measurements made with a spectrograph operated from an aeroplane flying over the sea. Difference in the amount of reflected light was a result of differences in animal and mineral content of the waters.

**Cooke, Wm. B.** (1961) F  
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*Ecology*, 42 (1) : 1-18  
 Pollution effects on the fungus population of a stream

Contains a list of spp. observed in water and stream-bed, in Lytle Creek, Ohio, and discusses the ecology of the population studied, especially the contribution to the purification of stream water and to food supply of other organisms present in the habitat.

**Conover, R. J.** (1961) MF  
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*Ecology*, 42 (1) : 119-40  
 A study of Charlestown and Green Hill ponds, Rhode Island

Describes a survey of salt ponds, discusses problems of salt pond management for maximum sustained yield of economic spp.

**Goodbody, I.** (1961) MF  
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*Ecology*, 42 (1) : 150-5  
 Mass mortality of a marine fauna following tropical rains

Describes observations on sessile marine animals, in a mangrove area, Kingston Harbor, Jamaica.

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 Winter fish mortality in Pamlico Sound, North Carolina

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*Fischereiforsch.*, 3 (10) : 22-7

Hydrographische Bedingungen in der nördlichen und mittleren Nordsee von Juni bis Oktober 1959 (Hydrographic conditions in the northern and central North Sea from June to October 1959)

Reports on observations on the Fladengrund and Dogger-area; and relationship between bottom temperatures and distribution of herring.

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*Geogr. J.*, 127 (1) : 63-77

The hydrography of Start Bay and its relationship to beach changes at Hallsands

Description of bathymetry, bottom sediments, currents, the morphology and geology of the shoreline and its changes by the action of the sea.

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- Arrhenius, G.** (n.d. 1961?) 62-00645  
 California Univ. Scripps Instn Oceanography, 59 p.  
 Pelagic sediments

Summary review of the pelagic sediments of the oceans, their chemical composition, stratification and physical-chemical processing in sediments and during sedimentation. Issued also as: *Contr. Scripps Instn Oceanogr.*, new series.

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- France. Comité Central d'Océanographie et d'Étude des Côtes** (1961) 62-00646  
*Cah. océanogr.*, 13 (5) : 265-354

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- Lacombe, H. & C. Richez** (1961) 62-00647  
*Cah. océanogr.*, 13 (5) : 276-91

Contribution à l'étude du régime du détroit de Gibraltar—Étude hydrologique (Contribution to the study of the Strait of Gibraltar system—2. Hydrological study)

Differences of salinity gradients and general hydrological structure between eastern and western waters of the strait.

- Aiboulatov, N. A.** (1961) M  
62-00648  
*Cah. océanogr.*, 13 (5) : 292-300  
 Quelques données sur le transfert des sédiments sableux le long d'un littoral, obtenues à l'aide de luminophores (Some data on shifting of sandy sediments along a coast, obtained by means of luminophores)

Data on mechanism of shifting on the coast of Anapa, Black Sea.

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*Cah. océanogr.*, 13 (5) : 301-6  
 Compte rendu succinct d'une campagne d'observations hydrologiques exécutée en Méditerranée occidentale à bord du R/V 'Atlantis' en février-mars 1961. (Brief report of a cruise of hydrological observations in the western Mediterranean on board of the R/V 'Atlantis' during Feb.-Mar. 1961)

- Berrit, G. R., M. Rossignol & J. P. Troadec** (1961) M  
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*Cah. océanogr.*, 13 (5) : 319-52  
 Resultats d'observations. Année 1959. Centre d'Océanographie de Pointe-Noire, campagnes nos. 7, 8, 9, et 10 de l'Ombango (Results of observations. Year 1959. Oceanographic Station of Pointe-Noire, cruises nos. 7, 8, 9, and 10 of 'Ombango')

Tables of data and diagrams containing results of temperature, salinity and mean sea level observations on the coast of Senegal.

- Pères, J. M.** (1960) M  
62-00651  
*Rec. Trav. Sta. marit. Endoume*, 33 (2) : 25-7  
 Observations sur les sédiments à partir du bathyscaph F.N.R.S. III ou par photographies profondes (Observations on sediments from the bathyscaph F.N.R.S. III and by pictures from deep-sea cameras)

CR 60-0986. Summary of observations made in the Pacific, Atlantic and Mediterranean.

- Blanc, J. J.** (1960) M  
62-00652  
*Rec. Trav. Sta. marit. Endoume*, 33 (2) : 35-51  
 Etude sédimentologique de la presqu'île de Giens et de ses abords (Sedimentologic study of the peninsula of Giens and surroundings)

General plan, morphology of vegetation, bottoms, dynamics of littoral, winds and evolution of the area.

- Karo, H. A.** (1961) M  
62-00653  
*Geo. Times*, 5 (6) : 8-13, 38-43  
 Geologic aspect of Coast and Geodetic Survey operations

Short review of the special hydrographic surveys of submarine geological significance and geological aspects of the oceanographic program.

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*Rec. oceanogr. Wks Jap.*, 6 (1) : 1-10  
Determination of the vertical eddy viscosity in sea water from wind stresses and surface current velocities

A relation was derived between the components of surface current velocity, the coefficient of vertical eddy viscosity and wind stress. Magnitudes of the coefficient of vertical eddy viscosity were then derived.

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62-00655
- Hidaka, K.** (1961)  
*Rec. oceanogr. Wks Jap.*, 6 (1) : 11-5  
Calculation of upwelling

An expression to compute upwelling, valid except at the equator and poles, was derived from hydro-dynamical equations, taking the effects of pressure gradients, Coriolis forces, and wind stresses exerted on the surface of the sea.

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- Hidaka, K.** (1961)  
*Rec. oceanogr. Wks Jap.*, 6 (1) : 16-28  
A contribution to the computation of three-dimensional ocean currents by high-speed computers

A method is suggested and a sample problem solved.

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- Hidaka, K.** (1961)  
*Rec. oceanogr. Wks Jap.*, 6 (1) : 29-35  
Equatorial flow and inertia terms

Presents a method to compute velocity of currents at the equator, taking into account field accelerations, pressure gradients, and Coriolis forces. Result is compared with Hidaka-Tsuchiya's 1955 formula.

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62-00658
- Roden, G. I. & J. L. Reid** (1961)  
*Rec. oceanogr. Wks Jap.*, 6 (1) : 36-52  
Sea surface temperature, radiation, and wind anomalies in the North Pacific Ocean

Relation between pressure and temperature anomalies, areal coherence, persistence and variance of temperature, wind and radiation anomalies, cross-correlations between temperature, wind and radiation anomalies.

- M  
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Presents keys to juvenile and adult specimens of *Alutera monoceros*, *A. scripta*, *A. schoepfii*, *A. heudelotii*, *Monacanthus ciliatus*, *M. tuckeri*, *Stephanolepis hispidus*, *S. setifer* and *Amaneses pullus*, and gives proportional measurements and fin-ray counts. Graphs, charts, photographs, and drawings supplement the data to facilitate identification. Also presents information on ranges and behaviour.

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- Wunder, W.** (1961) F  
62-01000  
*Allg. FischZtg.*, 86 (8) : 236-8  
Formveränderung der Schwimmblase des Karpfens bei Wirbelsäulenverkrümmung (Modification of the swim bladder in carp in case of deformed vertebral column)  
Anatomical description.
- Woynárovich, E.** (1960) F  
62-01001  
*Arch. FischWiss.*, 10 (3) : 179-89  
Erbrütung von Fischeiern im Sprühraum (Incubation of fish eggs in a spray-room). En  
Reports on the Hungarian methods and gives technical details.

- F  
62-01002
- Deufel, J.** (1960)  
*Arch. FischWiss.*, 10 (3) : 190-2

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- F  
62-01003
- Halsband, E.** (1960)  
*Arch. FischWiss.*, 10 (3) : 193-201

Veränderung der Erythrozyten bei Regenbogenforelle (*Salmo gairdnerii*) und Karpfen (*Cyprinus carpio*) durch Einwirkung von Gleichstrom (Alteration of erythrocytes in rainbow-trout, *Salmo gairdnerii*, and carp, *Cyprinus carpio*, caused by the action of direct current). En

Describes behaviour in the electrical field with a view to densities of current used in electrical fishing.

- F  
62-01004
- Morawa, F. W. F.** (1960)  
*Arch. FischWiss.*, 10 (3) : 201-6

Schwankungen des Fettgehaltes bei einigen Fischen in Indien—1. *Tilapia mossambica* Peters; 2. *Cyprinus carpio* L.; 3. andere Karpfenartige. Vorläufige Mitteilung (Fluctuations of fat content of some fishes in India—1. *Tilapia mossambica* Peters; 2. *Cyprinus carpio* L.; 3. other cyprinids—Preliminary report). En

- F  
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- Lopukhina, A. M.** (1961)  
*Dokl. Akad. Nauk SSSR*, 137 (1) : 244-7

Vliianie *Triaenophorum nodulosus* Pallas (Cestoda, Pseudophyllidea) na segoletkov raduzhnoi foreli (The influence produced by *Triaenophorum nodulosus* Pallas on young of *Salmo gairdneri* hatched during the same year)

- F  
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- Soin, S. G. & Zh. A. Cherniaev** (1961)  
*Dokl. Akad. Nauk SSSR*, 137 (5) : 1249-52

O razvitiu periblasticheskogo sinusa u embrionov lososevidnykh i nekotorykh drugikh kostistykh ryb (On the development of periblastic sinus in embryos of Salmonidae and of some other teleostei)

- F  
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*Dokl. Akad. Nauk SSSR*, 137 (5) : 1253-5

O *Khavia sinensis* Hsü (Caryophyllaeidae, Cestoda) parasite, zavezennom s dal'nego vostoka v karpovye khziaistva zapadnykh oblastei SSSR (On *Khavia sinensis* Hsü parasite imported from the Far East to Cyprinidae farms of western regions of the USSR)

F

- Soin, S. G. & Zh. A. Chernyaev** (1961) 62-01008  
*Dokl. Akad. Nauk SSSR (En Transl.)*, 137 (1-6) : 242-5  
 Periblastic sinus development in salmonid and certain other teleost fish embryos

*En* 62-01006. Embryology of *Thymallus arcticus* of Lake Baikal—observations in spring, 1956. Reference to similar phenomena in *Coregonus* spp., *Stenodus*, *Cottocomephorus* and *Cottus*.

F

- Lopukhina, A. M.** (1961) 62-01009  
*Dokl. Akad. Nauk SSSR (En Transl.)*, 137 (1-6) : 302-4  
 Effect of *Trienophorus nodulosus* Pallas (Cestoda, Pseudophyllidea) on yearling rainbow trout

*En* 62-01005. Experiments at "Ropsha" Station on fish from Polovnyi reservoir in which pike are parasitized by the mature tapeworm. Differences in total length, fork length, standard length, weight, and nutritional level, haemoglobin and white blood cell counts.

F

- Kulakovskaya, O. P. & R. A. Krotas** (1961) 62-01010  
*Dokl. Akad. Nauk SSSR (En Transl.)*, 137 (1-6) : 305-6  
*Khavia sinensis* Hsü (Caryophyllaeidae, Cestoda), a parasite introduced into carp hatcheries of the western USSR from the Far East

*En* 62-01007. Identity of this sp. described from *Cyprinus carpio* at Peking with *Caryophyllaeus fimbriiceps* sometimes incorrectly identified as *C. laticeps*—from Caspian carp, and now observed in hybrids of carp and Amur carp, in hatcheries in W. Ukraine, Latvia, Lithuania and Belorussia.

F

- Watson, N. H. F. & J. L. Price** (1961) 62-01011  
*Stud. Stat. Fish. Res. Bd Can.*, 1960 (591)  
 Experimental infections of cyclopid copepods with *Trienophorus crassus* Forel and *T. nodulosus*

CR 61-00832.

F

- Savage, R. M.** (1961?) 62-01012  
 New York, I. Pitman & Sons, Ltd., 221 p.  
 The ecology and life history of the common frog (*Rana temporaria temporaria*)

Contains chapters on reproduction, growth, morphology, ecology, and behaviour.

F

- Allsopp, H.** (1961) 62-01013  
*New Scient.*, 12 (263) : 548-9  
 Putting manatees to work

Gives brief information on the biological behaviour of manatees and discusses the useful employment of *Trichechus* sp. in keeping water-channels clear of weeds in British Guiana.

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- Haig, H. N.** (1961) F  
62-01014  
*Tex. Rep. Biol. Med.*, 19 : 327-31  
 Egg-laying capacity of the snail *Bulinus truncata* in relation to infection with *Schistosoma haematobium*
- IABS 23 (3) 6096. Account of observations which result in a significant reduction in average number of eggs laid per snail per day in the infected snails as compared with the uninfected ones.
- Kobayasi, H. & T. Maeda** (1961) F  
62-01015  
*Zool. Mag., Tokyo*, 70 (7) : 217-24  
 (On the pharyngeal bones and their teeth of Japanese gobionid fishes, Cyprinidae). Ni En
- Description of characteristics of pharyngeal bones and teeth of 7 genera and 12 spp.
- Oyima, Y. et al.** (1961) F  
62-01016  
*Zool. Mag., Tokyo*, 70 (8) : 243-7  
 (Cytological and histochemical studies on the fertilization in eggs derived from crossing between carp-funa F<sub>1</sub> (female) and their parent (male)). Ni En
- Ill. discussion.
- Suzuki, R.** (1961) F  
62-01017  
*Bull. Jap. Soc. sci. Fish.*, 27 (9) : 831-4  
 Sex and sterility of artificial intergeneric hybrids among bitterling (Cyprinid fishes)
- Examination of sex-ratio and reproductive capacity.
- Hiyama, Y.** (1961) F  
62-01018  
*Rec. oceanogr. Wks Jap.*, 6 (1) : 120-32  
 Uses of radio-isotopes for tracing predations of trout-fry
- Experiments using Zn<sup>65</sup> injections, Co<sup>60</sup> pin method, and comparison of the value of each method in tracing predation of the marked fish.
- Hamdorf, K.** (1961) F  
62-01019  
*Z. vergl. Physiol.*, 44 (5) : 523-49  
 Die Beeinflussung der Embryonal- und Larvalentwicklung der Regenbogenforelle, *Salmo irideus* Gibb., durch die Umweltfaktoren O<sub>2</sub>-Partialdruck und Temperatur (The influence of environmental factors, O<sub>2</sub>-partial pressure and temperature, on the embryonic and larval development of rainbow trout)
- Kawatsu, H.** (1961) F  
62-01020  
*Bull. Freshw. Fish. Res. Lab., Tokyo*, 11 (1) : 29-42  
 (On the dietary disease of rainbow trout, *Salmo irideus* Gibbons, caused by feeding the dried silk-worm pupae—2. The effect of other extracts on fatty degeneration and anemia). Ni En

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*Bull. Freshw. Fish. Res. Lab., Tokyo*, 11 (1) : 43-8  
 (Studies of fish foods substituted for silk-worm pupae as available foods for carp-culturing in farm ponds—1. Experiment about availability of whale meal and its entrails meal). *Ni En*

Comparison of weight increase, mortality of fish and cost of food.

F

- Koyama, H., H. Okubo & T. Miyajima** (1961) 62-01022  
*Bull. Freshw. Fish. Res. Lab., Tokyo*, 11 (1) : 49-55  
 (Studies of fish foods substituted for silk-worm pupae as available foods for carp-culturing in farm ponds—2. Experiment about availability of soy-bean cake "ko" meal and fish meal). *Ni En*

Co 62-01021. Comparison of weight and length increases in the fish, and cost of food.

F

- Shiraishi, Y. & T. Takeda** (1961) 62-01023  
*Bull. Freshw. Fish. Res. Lab., Tokyo*, 11 (1) : 69-83  
 (The influence of photoperiodicity on the maturation of ayu-fish, *Plecoglossus altivelis*). *Ni En*

Measurements of proportion of gonad to body weight, diameter of ovarian egg, percentage of fish with pearl organ on scales or fins, body weight, weight of food taken, fat contents in abdominal cavity, and mortality rate; the effect on these of variations in day-length.

F

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*Bull. Freshw. Fish. Res. Lab., Tokyo*, 11 (1) : 85-103  
 (Spawning habits of several species of fishes in Lake Sagami, a reservoir with special reference to the interspecific relation in spawning). *Ni En*

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F

- Chiba, K.** (1961) 62-01025  
*Bull. Freshw. Fish. Res. Lab., Tokyo*, 11 (1) : 105-30  
 (The basic study on the production of fish seedling under possible control—1. The effect of food in quality and quantity on the survival and growth of common carp fry). *Ni En*

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F

- Coil, W. H. & R. E. Kuntz** (1960) 62-01026  
*Trans. Amer. micr. Soc.*, 79 : 281  
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*Proc. Japan Acad.*, 36 : 217-22  
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 INSDOC List, 7 (19) : 1601.
- F
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 Mimeo, 2 p.  
 Regional fry breeding and distribution stations  
 Do 61-043 me.
- F
- Anon.** (1961) 62-01029  
*New Scient.*, 11 (254) : 799  
 Insecticide kills fish parasite  
 Losses of American rainbow trout through infestation by *Lernaea cyprinacea*.  
 Parasites controlled by benzene hexachloride (BHC).
- F
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*Agric. Pakist.*, 11 (2) : 311-8  
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 Improvement of impoundments for fish culture.
- F
- Ahmad, S.** (1960) 62-01031  
*Agric. Pakist.*, 11 (2) : 319-33  
 Culture of prawns in fresh-water ponds  
 Food and feeding habits, results of culture, breeding, number of eggs,  
 location of breeding grounds, methods of capture, length frequency distribution  
 of *Palaemon carcinus*, *P. birmanicus birmanicus* and *P. malcolmsonii*.
- F .
- Gray, G.-A. & H. E. Winn** (1961) 62-01032  
*Ecology*, 42 (2) : 274-82  
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 Selected for studies because it is known to produce 2 distinctly different  
 sounds. Also, these fish nest in shallow water where they are accessible to  
 observation and experimentation.
- F
- Hubbs, C. & M. V. Johnson** (1961) 62-01033  
*Sthwest. Nat.*, 6 (1) : 9-12  
 Differences in the egg complement of *Hadropterus scierus* from Austin and  
 San Marcos  
 BA 36E (20) 70424.

**Rothman, L. J.** (1961)  
*Operat. Res. Quart.*, 12 (1) : 79-80  
 [Letter]

G  
 62-01034

Ci 61-04685. Demonstrates the application of the model, applicable to tagging.

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**New South Wales. Laws, Statutes, etc.** (1961)  
*Govt Gaz. N.S.W.*, (75) : 2157

M  
 62-01035

Amendment to regulations made pursuant to the fisheries and oyster farms act, 1935-1960—21 July 1961

Relates to fishing in the Little Goat Island and Cemetery Bay waters.

**New South Wales. Laws, Statutes, etc.** (1961)  
*Govt Gaz. N.S.W.*, (77) : 2226

M  
 62-01036

Amendment to regulations made pursuant to the fisheries and oyster farms act, 1935-1960—28 July 1961

Relates to fishing in the waters of Broken Bay.

**Belgium. Laws, Statutes, etc.** (1961)  
*Monit. belge*, (55) : 1659

M  
 62-01037

Arrêté ministériel du 9 février 1961, portant création d'une commission consultative spécialisée nationale pour la pêche maritime (Ministerial order creating a specialized national consultative commission for sea fisheries. 9 February 1961)

Commission to advise the national employment and unemployment office.

**Belgium. Laws, Statutes, etc.** (1961)  
*Monit. belge*, (47) : 1237-8

M  
 62-01038

Arrêté royal du 14 février 1961 modifiant l'arrêté royal du 20 mai 1930 portant règlement organique de la caisse commune de la pêche maritime (Royal order amending royal order of 20 May 1930, issuing regulations of the common fund for sea fisheries—14 February 1961)

Concerns government representatives entitle to participate in the fund meetings.



M  
62-01039

**Belgium. Laws, Statutes, etc. (1961)**  
*Monit. belge, (65) : 2115-6*

Arrêté royal du 9 mars 1961 complétant l'arrêté royal du 27 décembre 1960, établissant un droit spécial à l'importation de certains produits agricoles et alimentaires (Royal order completing royal order of 27 Dec. 1960, introducing a special tax on the importation of certain agricultural and food products—9 March 1961)

Covers fish flour and by-products.

M  
62-01040

**Belgium. Laws, Statutes, etc. (1961)**  
*Monit. belge, (65) : 2116-7*

Arrêté ministériel complétant l'arrêté ministériel du 28 décembre 1960 établissant un droit spécial à l'importation de certains produits agricoles et alimentaires—9 mars 1961 (Ministerial order completing ministerial order of 28 Dec. 1960, introducing a special tax on the importation of certain agricultural and food products—9 March 1961)

Covers fish meal and by-products.

M  
62-01041

**Belgium. Laws, Statutes, etc. (1961)**  
*Monit. belge, (156) : 5360*

Arrêté royal du 26 juin 1961 modifiant l'arrêté royal du 7 mai 1958, modifié par celui du 21 juin 1960, portant des mesures pour prévenir l'épuisement des réserves de poissons, de crustacés et de mollusques en mer (Royal order amending royal order of 7 May 1958, itself amended by that of 21 June 1960, laying down measures to prevent the exhaustion of reserves of fish, crustaceans and molluscs in the sea—26 June 1961)

Adds an additional sp., *Gadus esmarkii*, to art. 5.1 and amends the mesh size in Art. 11.1.

M  
62-01042

**Belgium. Laws, Statutes, etc. (1961)**  
*Monit. belge, (178) : 6006-7*

Arrêté ministériel modifiant l'arrêté ministériel du 28 décembre 1960, établissant un droit spécial à l'importation de certains produits agricoles et alimentaires—17 juillet 1961 (Ministerial order amending ministerial order of 28 Dec. 1960, introducing a special tax on the importation of certain agricultural and food products—17 July 1961)

Amends also royal order of 9 Mar. 1961. Covers fish meal and fish flour.

M  
62-01043

**Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II), (11) : 728*

Statutory orders and regulations 61-208. Order in council P.C. 1961-713 amending the lobster fishery regulations, pursuant to the fisheries act—18 May 1961

Modification of closed seasons.

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**Canada. Laws, Statutes, etc. (1961)**

62-01044

*Can. Gaz. (II), (11) : 752*

Décrets, ordonnances et règlements statutaires 61-208. Décret C.P. 1961-713 modifiant le règlement de pêche du homard, en vertu de la loi sur les pêcheries—18 mai 1961 (Statutory orders and regulations 61-208. Order in council P.C. 1961-713 amending the lobster fishery regulations, pursuant to the fisheries act—18 May 1961)

*Fr 62-01043.*

M

**Canada. Laws, Statutes, etc. (1961)**

62-01045

*Can. Gaz. (II), (12) : 766-7*

SOR/61-232. Order in Council P.C. 1961-806 amending the Newfoundland fishery regulations made under the fisheries act—8 June 1961

The main amendment fixes the date on or before which every person who has drawn a cod trap berth in prescribed areas shall set his cod trap.

M

**Canada. Laws, Statutes, etc. (1961)**

62-01046

*Can. Gaz. (II), (12) : 790-1*

DORS/61-232. Arrêté C.P. 1961-806 modifiant le règlement de pêche de Terre-Neuve en vertu de la loi sur les pêcheries—8 juin 1961 (SOR/61-232. Order in council P.C. 61-806 amending the Newfoundland fishery regulations made under the fisheries act—8 June 1961)

*Fr 62-01045.*

M

**Canada. Laws, Statutes, etc. (1961)**

62-01047

*Can. Gaz. (II), (12) : 775*

SOR/61-239. Order in council P.C. 1961-861 amending the lobster fishery regulations, made under the fisheries act—15 June 1961

No person shall take, kill, can, buy, sell, export or have in his possession in the Province of Newfoundland or in the islands or waters adjacent to that Province a lobster less than three and three sixteenths inches in length, a female lobster carrying spawn or a female lobster from which the spawn has been washed or removed in whole or in part.

M

**Canada. Laws, Statutes, etc. (1961)**

62-01048

*Can. Gaz. (II), (12) : 799*

DORS/61-239. Arrêté C.P. 1961-861 modifiant le règlement de pêche du homard, en vertu de la loi sur les pêcheries—15 juin 1961 (SOR/61-239. Order in council P.C. 1961-861 amending the lobster fishery regulations, made under the fisheries act—15 June 1961)

*Fr 62-01047.*

M

**Canada. Laws, Statutes, etc. (1961)**

62-01049

*Can. Gaz. (II), (12) : 776*

SOR/61-240. Order in council P.C. 1961-862 amending the lobster fishery regulations made under the fisheries act—15 June 1961

Modification of closed seasons.

- M  
62-01050
- Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (12) : 800  
 DORS/61-240. Arrêté C.P. 1961-862 modifiant le règlement de pêche du homard, en vertu de la loi sur les pêcheries—15 juin 1961 (SOR/61-240. Order in council P.C. 1961-862 amending the lobster fishery regulations made under the fisheries act—15 June 1961)

*Fr* 62-01049.

- M  
62-01051
- Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (15) : 1174  
 SOR/61-319. Order in council P.C. 1961-1060 amending the lobster fishery regulations, made under the fisheries act—24 July 1961

Modifications of closed seasons.

- M  
62-01052
- Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (15) : 1226  
 DORS/61-319. Arrêté C.P. 1961-1060 modifiant le règlement de pêche du homard, en vertu de la loi sur les pêcheries—24 juillet 1961 (SOR/61-319. Order in council P.C. 1961-1060 amending the lobster fishery regulations, made under the fisheries act—24 July 1961)

*Fr* 62-01051.

- M  
62-01053
- Finland. Laws, Statutes, etc.** (1960)  
*Finlands FörfattnsSaml.*, (487-492) : 1171  
 Förordning N:o 489 om fridlysning av saimasäl—16 December 1960 (Decree No. 489 for the protection of Saimaa seal—16 December 1960)

Protects the Saimaa seal, *Phoca hispida saimensis*, throughout Finland until further notice.

- M  
62-01054
- France. Laws, Statutes, etc.** (1961)  
*J. off. Répub. franç.*, (85) : 3509-10  
 Décret N° 61-348 du 4 avril 1961 portant modification des décrets n° 54-1005 du 7 octobre 1954, n° 59-1371 du 3 décembre 1959 et n° 60-541 du 27 mai 1960 relatifs respectivement à la protection contre l'incendie, à la construction et à l'installation de la coque et des machines des navires de commerce, de pêche et de plaisance d'une jauge brute égale ou supérieure à 500 tonneaux (Decree No. 61-348, amending decrees nos. 54-1005 of 7 Oct. 1954, 59-1371 of 3 Dec. 1959 and 60-541 of 27 May 1960, relating respectively to fire protection, construction, and keel-laying and installation of machines aboard commercial, fishing and pleasure craft of 500 tons or over—4 April 1961)

Miscellaneous amendments.

- M  
62-01055
- France. Laws, Statutes, etc. (1961)**  
*J. off. Répub. franç.*, (97) : 3879  
 Arrêté du 17 avril 1961 portant création de cantonnements de pêche en Méditerranée (Order creating fishing reserves in the Mediterranean—17 April 1961)

Off the Rhone and Aude Rivers.

- M  
62-01056
- France. Laws, Statutes, etc. (1961)**  
*J. off. Répub. franç.*, (111) : 4302  
 Décret n° 61-459 du 9 mai 1961 modifiant l'article 17 de l'ordonnance n° 45-1813 du 14 août 1945 portant réorganisation des pêches maritimes (Decree No. 61-459, amending art. 17 of ordinance No. 45-1813 of 14 August 1945, reorganizing sea fishing activities—9 May 1961)

In respect of penalties for infractions.

- M  
62-01057
- France. Laws, Statutes, etc. (1961)**  
*J. off. Républ. franç.*, (138) : 5333  
 Arrêté du 2 juin 1961 portant réglementation du filet dit "carrelet" (Order regulating the use of the so-called "carrelet" net—2 June 1961)

Also called "carreau", "hunier", or "troguey"; mesh minimum 14 mm. Abrogates certain paragraphs of the decrees of 4 July 1853 on coastal sea fishing.

- M  
62-01058
- Germany. Eastern. Laws, Statutes, etc. (1961)**  
*GesBl. dtsh. dem. Repub.* (2), (50) : 323-4  
 Verordnung über die Sozialpflichtversicherung für Mitglieder der Produktionsgenossenschaften werktätiger Fischer—13 Juli 1961 (Decree on compulsory social insurance for members of the fishermen's cooperative—13 July 1961)

- M  
62-01059
- Germany. Eastern. Laws, Statutes, etc. (1961)**  
*GesBl. dtsh. dem. Repub.* (2), (50) : 324-5  
 Erste Durchführungsbestimmung zur Verordnung über die Sozialpflichtversicherung für Mitglieder der Produktionsgenossenschaften werktätiger Fischer—13 Juli 1961 (First order issued under the decree on compulsory social insurance for members of the fishermen's cooperative—13 July 1961)

- M  
62-01060
- Germany. Federal Republic. Laws, Statutes, etc. (1961)**  
*MinistBl. Bundesrepub. Dtsch.*, (6) : 79-80  
 Verordnung über die Inkraftsetzung einer Änderung der Konvention vom 5. April 1946 der Internationalen Überfischungskonferenz—1 März 1961 (Decree relative to the coming into force of an amendment to the convention of 5 April 1946 on the international overfishing conference—1 March 1961)

Concerns article 7 (2) of said convention.

- M  
62-01061
- Haiti. Laws, Statutes, etc. (1961)**  
*Monit., Haiti*, (16) : 62  
Décret du 13 février 1961 réglementant d'une manière adéquate le cabotage entre les ports haïtiens et la pêche dans les eaux territoriales haïtiennes (Decree regulating coastal shipping between Haitian ports and fishing in Haitian territorial waters—13 Febr. 1961)
- Coastal shipping and fishing are restricted to Haitian ships.
- M  
62-01062
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (5) : 65-6  
Arrêté grand-ducal du 10 février 1961 complétant l'arrêté grand-ducal du 11 janvier 1961 établissant un droit spécial à l'importation de certains produits agricoles et alimentaires (Grand-ducal order supplementing the grand-ducal order of 11 Jan. 1961 creating a special tax on the importation of certain food and agricultural products—10 Feb. 1961)
- In respect of certain foodstuffs, incl. fishmeal.
- M  
62-01063
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (5) : 67  
Arrêté ministériel du 10 février 1961 complétant l'arrêté ministériel du 12 janvier 1961 établissant un droit spécial à l'importation de certain produits agricoles et alimentaires (Ministerial order supplementing the ministerial order of 12 Jan. 1961 creating a special tax on the importation of certain food and agricultural products—10 Feb. 1961)
- In respect of certain foodstuffs, incl. fishmeal.
- M  
62-01064
- Madagascar. Laws, Statutes, etc. (1961)**  
*J. off. Républ. malgache*, (174) : 1122-5  
Décret n° 61-288 du 9 juin 1961 portant organisation du service de l'élevage, de la pêche maritime et des industries animales (Decree No. 61-288 relative to the organization of the stockbreeding, sea fisheries and animal industries service—9 Juin 1961)
- Defines functions of the Sea Fisheries Division.
- M  
62-01065
- Netherlands. Laws, Statutes, etc. (1961)**  
*Staatscourant, Den Haag*, (122) : 7  
Nr. Vi 2586/ teruggave aan de openbare visserij van mosselpercelen in de waddenzee—23 juni 1961 (Order No. 2586, re-authorizing public fishing in certain zones of the outer Zuidersee used for mussel growing—23 June 1961)
- M  
62-01066
- Norway. Laws, Statutes, etc. (1961)**  
*Norsk Lovtid.*, (10) : 160  
Skriv om setting av oppsynet under vårtorskefisket i Finnmark 1961—6 mars 1961 (Notice of the Ministry of Fisheries, fixing the date for control of the spring cod season in Finnmark—6 March 1961)
- 20 March 1961.

**Norway. Laws, Statutes, etc. (1961)**M  
62-01067*Norsk Lovtid.*, (16) : 343

Kongelig resolusjon om avgift av hval- og spermoljeproduksjonen i 1960-61—28 april 1961 (Royal resolution establishing a tax on the production of whale and sperm whale oils during the fiscal year 1960-61—28 April 1961)

Establishes the tax at 1.15 N.Kr. per 170 Kg. cask, the proceeds from such tax to be used on behalf of whale fisheries promotion funds.

**Peru. Laws, Statutes, etc. (1961)**M  
62-01068*Peruano*, (6004) : 1

Resolución ministerial No. 320 por la que se obliga a las fábricas de harina de pescado a instalar equipos registradores de temperatura—22 de abril de 1961 (Ministerial resolution No. 320, requiring fishmeal plants to instal temperature recording equipment—22 April 1961)

Maximum temperature fixed at 500°C to avoid disagreeable odors.

**Philippines. Statutes, etc. (1960)**M  
62-01069*Off. Gaz. Manila*, (21) : 3889-90

Fisheries administrative order No. 62 : prohibition to operate trawl in the northern and northwestern waters of Bohol for a period of five years—19 July 1960

Trawl means a funnel-shaped net with the mouth kept open during fishing by a device, such as a pair of otter-door or beam, towed by one or two boats. Its use is permitted exclusively for scientific, educational or propagational purposes.

**Poland. Laws, Statutes, etc. (1960)**M  
62-01070*Dziennik Ustaw*, (28) : 325

Miedzynarodowa Konwencja o Zapobieganiu Zanieczyszczeniu Morza Olejami, sporządzona w Londynie dnia 12 maja 1954 r. 29 grudnia 1960 r. (Approval and ratification by the Council of State of the International Convention for the Prevention of Pollution of the Sea by Oil, signed at London, 12 May 1954—29 Dec. 1960)

**South Africa. Republic. Laws, Statutes, etc. (1961)**M  
62-01071*Govt Gaz. S. Afr.*, (57) : 2

Proklamasie No. 39, 1961. Wet op Seevisserye, 1940—2 Augustus 1961 (Proclamation No. 39 of 1961, made under the sea fisheries act, 1940—2 August 1961)

Repeals proclamation No. 267 of 1958.

MISCELLANEOUS AND AUXILIARIES

- M
- South Africa. Republic. Laws, Statutes, etc. (1961)** 62-01072  
*Govt Gaz. S. Afr.*, (66) : 5-6  
 Proklamasie No. 62, 1961. Set op seevisserye No. 10 van 1940—12 Augustus 1961 (Proclamation No. 62 of 1961, made under the sea fisheries act, No. 10 of 1940—12 August 1961)

Prohibits during the specified periods and waters to catch or disturb pilchards, *Sardinops ocellata*, maasbankers, horse mackerel, *Trachurus trachurus*, or mackerel *Scomber japonicus*, for canning, production of fish meal, fish oil or fish fertilizer purposes.

- M
- U.K. Laws, Statutes, etc. (1961)** 62-01073  
 9 & 10 Elizabeth 2, Ch. 18, 3 p.

White fish and herring industries act, 1961: an act to make further provision for financial assistance for the white fish and herring industries (including advances to the White Fish Authority)—9 May 1961

Extends § 5 of the white fish and herring industries act, 1953 to enable grants to be made under a scheme irrespective of the size of vessel or the nature of the voyage or the waters in which fish have been caught; extends the power to increase by order the aggregate amount of white fish and herring subsidies.

- M
- U.S. Laws, Statutes, etc. (1961)** 62-01074  
*Fed. Reg. U.S.*, (150) : 7060

Title 50; Chapter II—Bureau of Commercial Fisheries, Fish and Wildlife Services, Department of the Interior; subchapter F—Aid to fisheries; part 256—fishing vessel construction. Added definition of fishery—1 August 1961

The purpose of the amendment is to provide in the definition of a fishery, permission to use either volume or value of the catch in determining eligibility for a subsidy.

- M
- Venezuela. Laws, Statutes, etc. (1961)** 62-01075  
*Gac. ofic. Venezuela*, (26.614) : 197485-7

Ley aprobatoria de la "convención sobre la plataforma continental"—26 de julio de 1961 (Act approving the convention on the continental shelf—26 July 1961)

Convention adopted by the 1st UN Conference on the Law of the Sea at Geneva on 29 April 1958.

- M
- Yugoslavia. Laws, Statutes, etc. (1961)** 62-01076  
*Služb. List*, (28) : 764

Naredbu o Uvjetima u Pogledu Higijenske ispravnosti školjki koje se stavljaju u promet—30. lipnja 1961 (Ordinance of the Secretariat for National Health, concerning conditions relating to proper sanitary conditions for shellfish placed on sale—30 June 1961)

Forbids to sell shellfish if it is poisonous, perished or decayed.

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- Joglekar, D. V.** (1960) M  
62-01077  
*J. Instn Engrs India*, 40 (12) : 89-106  
 Harbours in India and their problems  
 INSDOC list, 7 (19) : 1570.
- Fink, F. W.** (1960) M  
62-01078  
*Industr. Engng Chem.*, 52 : 70A-1A, 73A  
 Metals for sea water service  
 CFA 14 (1) : 3.
- U.K. Parliament** (1959) M  
62-01079  
 London, H.M.S.O., Cmnd (659), 10 p.  
 The North-East Atlantic Fisheries Convention—London, January 24, 1959
- Lorch, J.** (1961) MF  
62-01080  
*Phil. Sci.*, 28 (3) : 282-95  
 The natural system in biology  
 Traces the history of the natural classification system in biology. Contends that the classification of organisms necessarily entails only plausible conventions, not a single natural system.
- New South Wales. Laws, Statutes, etc.** (1961) MF  
62-01081  
*Govt Gaz. N.S.W.*, (67) : 1866  
 Proclamation, pursuant to the fisheries and oyster farms act, 1935-1960, relating to the waters of Little Beach, Cape Byron, County of Rous—7 June 1961  
 Prohibits the taking of fish by means of nets of every description, from 1 April to 30 June in each of the years 1961, 1962, 1963, 1964 and 1965.
- New South Wales. Laws, Statutes, etc.** (1961) MF  
62-01082  
*Govt Gaz. N.S.W.*, (73) : 2098  
 Closure notification, made under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Hunter River, Counties of Northumberland, Hunter, Gloucester, Durham and Brisbane—3 July 1961  
 Prohibits the use of prawn hauling nets prescribed in regulation 21, in the specified tidal and inland waters, from 3 June 1961 to 31 May 1962, and from 1 Dec. 1961 to 31 May 1962, respectively.
- New South Wales. Laws, Statutes, etc.** (1961) MF  
62-01083  
*Govt Gaz. N.S.W.*, (73) : 2099  
 Closure notification made under the fisheries and oyster farms act, 1935-1960—3 July 1961  
 Prohibits the taking of fish and prawns, by means of trawl nets of every description, in the prescribed tidal waters of New South Wales, for the period 3 June 1961 to 31 May 1962.



MISCELLANEOUS AND AUXILIARIES

MF  
62-01084

**New South Wales. Laws, Statutes, etc.** (1961)  
*Govt Gaz. N.S.W.*, (73) : 2099

Closure notification, made under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Hawkesbury River, Counties of Cumberland, Cook, Hunter and Westmoreland—3 July 1961

Prohibits the use of prawn nets as prescribed by regulation 21, in the specified tidal and inland waters, from 3 June 1961 to 31 May 1962.

MF  
62-01085

**New South Wales. Laws, Statutes, etc.** (1961)  
*Govt Gaz. N.S.W.*, (79) : 2275

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the whole of the waters within Womin Lagoons, County of Rous—19 July 1961

Prohibits the taking of fish by nets of every description other than the prescribed dip or scoop net for the capture of prawns only, in the specified tidal waters, from 1 Nov. 1961 to 31 Oct. 1966.

MF  
62-01086

**Tasmania. Laws, Statutes, etc.** (1961)  
*Statut. Rules Tasm.*, (52) : 1 p.

Sea fisheries amendment regulations 1961, made under the fisheries act, 1959—24 April 1961

Relates to season for taking scallops and to dimensions of oyster and scallop dredges.

MF  
62-01087

**Belgium. Laws, Statutes, etc.** (1961)  
*Monit. belge*, (111) : 4074

Arrêté ministériel du 27 Avril 1961 interdisant la capture du huchon jusqu'au 31 décembre 1962 (Ministerial order prohibiting the taking of salmon hucho until 31 December 1962—27 April 1961)

With a view to facilitating introduction of *Salmo hucho* into Belgian waters.

MF  
62-01088

**Ontario. Laws, Statutes, etc.** (1961)  
*Statut., Ont.*, 9-10 : 107-10

The game and fisheries amendment act, 1960-61: an act to amend the game and fisheries act—29 March 1961

Concerns fish sanctuaries and traffic in certain fish.

MF  
62-01089

**Prince Edward Island. Laws, Statutes, etc.** (1959)  
*Acts gen. Ass. Pr. Edw. I.*, 8 : 36-50

The fish and game protection act—25 March 1959

Relates to powers of game wardens, licenses, bag limits, closed seasons, private fishing properties.

- Ceylon. Laws, Statutes, etc.** (1961) MF  
62-01090  
*Ceylon Govt Gaz.*, Part I, Sect. 1, (12-553) : 1462-3  
L.D.-B. 19/54. Maruthamunai (Karavalai) fishing regulations, 1960, made under the fisheries ordinance, No. 24 of 1940—13 July 1961

Prohibits to the residents of Maruthamunai the use of karavalai nets in the prescribed waters. In other waters, a permit is required.

- Finland. Laws, Statutes, etc.** (1960) MF  
62-01091  
*Finlands FörfattnSaml.*, (457-464) : 1124  
Förordning N:o 463 om bringande i kraft av överenskommelsen mellan Finland och Norge angående fiskeristadga för Tana älvs fiskeområde—9 dec. 1960 (Decree No. 463 on the application of the agreement between Finland and Norway concerning fishing regulations in the River Tenojoki area—9 Dec. 1960)

This decree, issued at the proposal of the Minister for Foreign Affairs, states that the agreement between Finland and Norway, signed in Oslo on 15 Nov. 1960, regarding fishing regulations in the River Tenojoki area, shall come into force on 1 Jan. 1961, as previously agreed.

- Finland. Laws, Statutes, etc.** (1960) MF  
62-01092  
*Finlands FörfattnSaml.*, (507-519) : 1200-1  
Statsrådets beslut N:o 518 om gränshandeln—29 december 1960 (Government resolution No. 518 relative to frontier trade—29 Dec. 1960)

Specifies the various goods, incl. fish, that inhabitants of frontier areas may import duty free up to a certain value every 6 months.

- Finland. Laws, Statutes, etc.** (1961) MF  
62-01093  
*Finlands FörfattnSaml.*, (26-46) : 61  
Förordning N:o 41 om statens övertagande av vissa lanthushållnings- undervisningsanstalter av privat natur—20 januari 1961 (Decree No. 41 transferring certain private agricultural training establishments to state ownership—20 Jan. 1961)

This decree places certain schools of agriculture and fishing under state ownership and also prescribes the number of teaching posts open in such schools.

- France. Laws, Statutes, etc.** (1961) MF  
62-01094  
*J. off. Répub. franç.*, (176) : 6969-70  
Décret n° 61-795 du 24 juillet 1961 relatif au service médical et sanitaire à bord des navires de commerce, de pêche et de plaisance (Decree no. 61-795, relating to the medical and sanitary service aboard merchant, fishing and pleasure craft—24 July 1961)

- MF  
62-01095
- Italy. Laws, Statutes, etc. (1961)**  
*Gazz. uff. Repub. ital.*, (206) : 3246  
 Decreto del Presidente della Repubblica n. 781, del 8 luglio 1961, relativo alle modificazioni al regolamento per l'esecuzione della legge sulla privativa dei sali e dei tabacchi (Decree no. 781 of the President of the Republic, amending rules for the execution of the law on concessions for the sale of salt and tobacco—8 July 1961)

Concerns salt used for the salting of fish.

- F  
62-01096
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (12) : 211  
 Arrêté grand-ducal du 20 mart 1961 prorogeant pour la durée de l'année de pêche de 1961 l'arrêté grand-ducal du 29 mai 1953 ramenant de 25 à 22 centimètres la longueur de bonne prise des truites (Grand-ducal order extending for the 1961 season the grand-ducal order of 29 May 1953 reducing from 25 to 22 cm. the minimum size of trout taken—20 March 1961)

- MF  
62-01097
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (13) : 223-4  
 Arrêté ministériel du 28 mars 1961 concernant le repeuplement des cours d'eau affectionnés par les salmonidés (Ministerial order concerning the restocking of watercourses frequented by salmonids—28 March 1961)

Number of trouts to be put into rivers by the water and forest administration for restocking purposes.

- MF  
62-01098
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (23) : 454  
 Arrêté ministériel du 12 juin 1961 réglémentant l'exercice de la pêche dans les eaux du canal de Rosport (Ministerial order regulating fishing in the waters of the Rosport Canal—12 June 1961)

- MF  
62-01099
- Netherlands. Laws, Statutes, etc. (1961)**  
*Staatscourant, Den Haag*, (98) : 1  
 Zaken Nr. 20170 MSW/WV: aanwijzing diplomatas—18 mei 1961 (Order No. 20170 MSW/WV relating to delivery of documents—18 May 1961)

Documents required for persons engaging in retail or ambulant sale of fish.

- MF  
62-01100
- Norway. Laws, Statutes, etc. (1961)**  
*Norsk Lovtid.*, (10) : 174-201  
 Bestemmelser for behandling, tilvirkning, føring, pakking og transport av fersk og frossen fisk, fiskefilet og rogn—11 mars 1961 (Regulations for the handling, processing, shipping, packing and transport of fresh and frozen fish, fillets and roe—11 March 1961)

Major text replacing regulations of 28 March 1952, as amended 26 Sept. 1952 and 27 April 1956 and rescinding the Royal order of 5 June 1953.

**Norway. Laws, Statutes, etc. (1961)**MF  
62-01101*Norsk Lovtid.*, (10) : 201-2

Bestemmelse om endring av forskrifter for behandling, tilvirkning og transport av fisk som skal tilvirkes til saltfisk, klippfisk og tørrfisk—11 mars 1961 (Regulations amending the regulations for the handling, processing and transport of fish for processing into salt cod, dried salt cod and stockfish—11 March 1961)

Ad 61-05885.

**Norway. Laws, Statutes, etc. (1961)**MF  
62-01102*Norsk Lovtid.*, (16) : 328-9

Bestemmelse om endring av § 46 i bestemmelser av 11 mars 1961 for behandling, tilvirkning, føring, pakking og transport av fersk og frossen fisk, fiskefilet og rogn—27 april 1961 (Regulation amending Sec. 46 of regulations of 11 March 1961, governing the handling, processing, shipping, packing and transport of fresh and frozen fish, fillets and roe—27 April 1961)

Ad 62-01100. Section 46 relates to packing.

**Norway. Laws, Statutes, etc. (1961)**MF  
62-01103*Norsk Lovtid.*, (20) : 519-20

Kongelig resolusjon om bestemmelser om snurpenotfiske etter størje—9 juni 1961 (Royal resolution concerning trawl fishing for sturgeon—9 June 1961).

**Sweden. Laws, Statutes, etc. (1961)**MF  
62-01104*Svensk FörfSaml.*, (74-76) : 157-8

Kungl. Maj:ts Förordning Nr. 75 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 372) angående reglering av införseln av vissa slag av fisk och skaldjur—14 april 1961 (Royal decree No. 75 prolonging the validity of decree No. 372 of 5 June 1953 governing the import of certain species of fish and shellfish—14 April 1961)

Prolonged from 30 June 1961 until 30 June 1962.

**Sweden. Laws, Statutes, etc. (1961)**MF  
62-01105*Svensk FörfSaml.*, (74-76) : 157

Kungl. Maj:ts Förordning Nr 74 angående fortsatt giltighet av förordningen den 30 maj 1952 (nr 320) om viss reglering av handeln med fisk, m.m.—14 April 1961 (Royal decree No. 74 prolonging the validity of decree No. 320 of 30 May 1952 governing trade in fish, etc.—14 April 1961)

Prolonged from 30 June 1961 until 30 June 1962.

**Sweden. Laws, Statutes, etc. (1961)** MF  
 62-01106  
*Svensk FörfSaml.*, (74-76) : 158

Kungl. Maj:ts Förordning Nr 76 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 374) angående reglering av utförseln av vissa slag av fisk och skaldjur m.m.—14 April 1961 (Royal decree No. 76 prolonging the validity of decree No. 374 of 5 June 1953 governing the export of certain species of fish and shellfish—14 April 1961)

Prolonged from 30 June 1961 until 30 June 1962.

**Sweden. Laws, Statutes, etc. (1961)** MF  
 62-01107  
*Svensk FörfSaml.*, (151-154) : 309-11

Kungl. Maj:ts Kungörelse Nr 154 om statsbidrag till fiskares byggnader i vissa fall—19 maj 1961 (Royal order No. 154, concerning crown aid for fisheries personnel in certain cases—19 May 1961)

In respect of aids for housing construction.

**Sweden. Laws, Statutes, etc. (1961)** MF  
 62-01108  
*Svensk FörfSaml.*, (323) : 761-3

Kungl. maj: ts Kungörelse Nr 323 om de högsta införselavgifter som statens jordbruksnämnd må bestamma i vissa fall—2 juni 1961 (Royal order No. 323 concerning maximum import duties chargeable by the State Agricultural Commission—2 June 1961)

In respect of various agricultural and fisheries products.

**Turkey. Laws, Statutes, etc. (1961)** MF  
 62-01109  
*Resmî Gaz.*, (10789) : 3910

Balik Avcılığınin Tanzimine dair 10 numaralı Sirküleri (Notice by the Ministry of Trade regulating fishing in 1961-62, circular no. 10)

**U.K. Laws, Statutes, etc. (1961)** MF  
 62-01110  
*Statut. Instrum. U.K.*, (840) : 1 p.

The discharge of radioactive waste (extension of temporary control) order, 1961, pursuant to the atomic energy authority act, 1954—27 April 1961

Extends the period of control of the discharge of radioactive waste on and from premises occupied by the UK Atomic Energy Authority from the 3rd June, 1961, to the 31st Dec., 1962.

**U.S. Laws, Statutes, etc. (1961)** MF  
 62-01111  
*Publ. Law U.S.*, (87-88) : 7 p.

Federal water pollution control act amendments of 1961: an act to amend the federal water pollution control act to provide for a more effective program of water pollution control, and for other purposes—20 July 1961

Major provisions providing for outlay up to \$25,000,000; concern water quality control, research, the Water Pollution Control Advisory Board, conferences of interstate agencies, etc.

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- Yugoslavia. Laws, Statutes, etc.** (1961) MF  
62-01112  
*Služb. List*, (20) : 508

Odluku o Izmjenama i Dopunama Odluke o davanju regresa pri prodaji goriva i maziva za potrebe poljoprivrede, šumarstva i ribarstva—12 svibnja 1961 (Resolution of the Federal Executive Council, amending and supplementing resolution S.L. 31/1959 and 31/1960, providing for reductions in prices of fuel and oil for agricultural, forest and fishing requirements—12 May 1961)

- Aldrich, B.** (1960) MF  
62-01113  
*Fish. Gaz., N. Y.*, 77 : 17-8  
Fisheries of the future

CFA 14 (2) : 5.

- Grandison, A. G. C., M. A. Edwards & P. Armitage** (Comp.) MF  
62-01114  
(1961)  
*Zool. Rec.*, 96 (16) : 59 p.  
Amphibia

27 pages of references in alphabetic order of author names to documents published in 1958; subject, geographic and systematic indexes.

- Gooding, R. U.** (1959) MF  
62-01115  
Mimeo, 28 p.  
A preliminary list of copepodologists

Lists names in alphabetic order and addresses, where known, with short annotations of subject field of interest.

- FAO. Fisheries Division Biology Branch** (1962) MF  
62-01116  
*FAO Fish. Biol. tech. Pap.*, (19.1)  
World list of periodicals for aquatic sciences and fisheries—Vol. 1.

Lists, in alphabetical order, titles and short forms of current periodicals, papers contained in which have been entered in *Curr. Bibliogr. aquat. Sci. Fish.* Appends list of such periodicals now extinct. Incl. periodicals in 61-11298.

- Anon.** (1961) F  
62-01117  
25 p.  
Evaporation suppression: bibliography

Available from the Office of Technical Services, Washington, D.C. The 125 entries relating to evaporation suppression from reservoir surfaces are arranged alphabetically by author. For each entry an abstr. and the Library of Congress call number are given. Of the entries, 107 are Russian, 9 are Australian, 7 are English, 1 is Italian, and 1 is Spanish.

F

**New South Wales. Laws, Statutes, etc. (1961)** 62-01118  
*Govt Gaz. N.S.W.*, (67) : 1866  
 Proclamation, pursuant to the fisheries and oyster farms act, 1935-1960, relating to the waters of Khappinghat Creek, County of Gloucester—7 June, 1961

Prohibits the taking of fish by means of nets of every description, from 21 Sept. 1961 to 20 Sept. 1966.

F

**New South Wales. Laws, Statutes, etc. (1961)** 62-01119  
*Govt Gaz. N.S.W.*, (69) : 1935  
 Proclamation pursuant to the prevention of oil pollution of navigable waters act, 1960—21 June 1961

Fixes the date of entering into force of the said act at 30 June 1961.

F

**New South Wales. Laws, Statutes, etc. (1961)** 62-01120  
*Govt Gaz. N.S.W.*, (73) : 2094

Proclamation, pursuant to the fisheries and oyster farms act, 1935-60, relating to the waters of Urana Creek, County of Urana—28 June 1961

Prohibits all net fishing in the specified inland waters from 15 August 1961 to 14 August 1966.

F

**New South Wales. Laws, Statutes, etc. (1961)** 62-01121  
*Govt Gaz. N.S.W.*, (73) : 2098-9

Closure notification, made under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Clarence River, Counties of Clarence, Drake, Fitzroy and Buller—3 July 1961

Prohibits the use of prawn hauling nets prescribed in regulation 21, in the specified waters, from 3 June 1961 to 31 May 1962 and from 1 Dec. 1961 to 31 May 1962, respectively.

F

**South Australia. Laws, Statutes, etc. (1961)** 62-01122  
*S. Aust. Govt Gaz.*, (27) : 1467-8

By-laws made under the National Park and wild life reserves act, 1891-1960—29 June 1961

Provides for protection against water pollution in creeks, wells, dams, reservoirs or lakes.

F

**Finland. Laws, Statutes, etc. (1960)** 62-01123  
*Finlands Författn.Saml.*, (471-478) : 1148

Lantbruksministeriets beslut N:o 476 om användning av fångstredskap av metalltrådsnät inom vissa vattendragsområden—14 dec. 1960 (Resolution No. 476 of the Ministry of Agriculture concerning the use of wire-netting fishing traps in certain waters—14 Dec. 1960)

This resolution permits the use of wire-net fishing traps with a mesh of at least 25 mm until further notice—or until to the end of 1963 by the latest—in the localities specified.

- F  
62-01124
- Finland. Laws, Statutes, etc. (1960)**  
*Finlands FörfattnSaml.*, (471-478) : 1149  
 Lantbruksministeriets beslut N:o 477 angående sikfisket i Pyhäjärvi Å.1  
 —14 dec. 1960 (Resolution No. 477 of the Ministry of Agriculture concern-  
 ing the catching of whitefish in Lake Pyhäjärvi, province of Turku—14 Dec.  
 1960)

States that, notwithstanding the provisions of art. 27 of the fishing act, drum nets and similar may be used for catching whitefish in Lake Pyhäjärvi, Turku province, from 1961 to 1965, provided that the net and the line thereof are not sunk deeper than 2½ m. Notwithstanding art. 34 of the said act, whitefish shall be protected in this lake from 15 October to 14 November between the years 1961-65.

- F  
62-01125
- Finland. Laws, Statutes, etc. (1960)**  
*Finlands FörfattnSaml.*, (471-478) : 1149  
 Lantbruksministeriets beslut N:o 478 om förbud mot fiske i vissa vatten—  
 14 Dec. 1960 (Resolution No. 478 of the Ministry of Agriculture prohibiting  
 fishing in certain waters—14 Dec. 1960)

- F  
62-01126
- Finland. Laws, Statutes, etc. (1961)**  
*Finlands FörfattnSaml.*, (26-46) : 64-6  
 Förordning N:o 43 om ändring av jorddispositionsförordningen—20  
 januari 1961 (Decree No. 43 amending an earlier decree on land utilization—  
 20 January 1961)

This decree amends certain clauses of the decree on land utilization of 13 February 1959, and prohibits the purchase of land for the establishment of new farms, smallholdings, fishermen's smallholdings or dwelling sites without government permission in areas set aside for town planning, housing estates, etc.

- F  
62-01127
- France. Laws, Statutes, etc. (1961)**  
*J. off. Républ. franç.*, (121) : 4649-4650  
 Arrêté du 12 mai 1961 fixant la procédure d'adjudication du droit de  
 pêche exercé par l'état dans les eaux du domaine public (Order laying down  
 the procedure for the award of state-owned fishing rights in public waters—  
 12 May 1961)

In application of article 411 (3) of the rural code.

- MF  
62-01128
- France. Laws, Statutes, etc. (1961)**  
*J. off. Républ. franç.*, (141) : 5428-33  
 Décret n° 61-616 du 5 juin 1961 portant modification du décret du 16  
 septembre 1958 déterminant le classement des cours d'eau en deux catégories  
 (Decree No. 61-616, amending the decree of 16 Sept. 1958, classifying water-  
 courses into two categories—5 June 1961)

Major modifications to the classification—1st category: frequented predominantly by salmonides; 2nd category: frequented predominantly by cyprinides.



- F  
62-01129
- Italy. Laws, Statutes, etc. (1961)**  
*Gazz. uff. Repub. ital.*, (114) : 1821-3  
 Decreto ministeriale 26 aprile 1961 relativo alla regolamentazione della pesca nel lago d'Iseo (Ministerial decree regulating fishing in Iseo Lake—26 April 1961)

Prescribes various types of nets which may be used.

- F  
62-01130
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (20) : 401-2  
 Règlement grand-ducal du 10 mai 1961 portant interdiction du mode de pêche à l'asticot (Grand-ducal regulations prohibiting fishing with gentles—10 May 1961)

- F  
62-01131
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (21) : 429-31  
 Loi du 27 mai 1961 concernant les mesures de protection sanitaire du barrage d'Esch-sur-Sûre (Act concerning measures for sanitary protection of the Esch-sur-Sûre Dam)—27 May 1961)

A pollution prevention measure, covering also reservoir waters.

- F  
62-01132
- Luxemburg. Laws, Statutes, etc. (1961)**  
*Mém. Luxemb.*, (28) : 676  
 Règlement grand-ducal du 30 juin 1961 modifiant le règlement grand-ducal du 10 mai 1961 portant interdiction du mode de pêche à l'asticot (Grand-ducal regulations amending the grand-ducal regulations of 10 May 1961, prohibiting fishing with gentles—30 June 1961)

Ad 62-01130. In respect of trout fishing.

- F  
62-01133
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 A new species of *Hysterolecitha* (Trematoda: Hemiuridae) from the mud-sucker *Gillichthys mirabilis* Cooper
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*Nature, Lond.*, 192 (4807) : 1102  
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 Study of extraction properties of 1.25 and 2.5 per cent trichloroacetic acid, half-saturated ammonium sulfate and 50 per cent pyridine on glycoprotein content of pituitary glands of *Heteropneustes fossilis* (Bloch).
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**Toman, M.** (1959)F  
62-01609*Biología*, 14 (9) : 674-9

Über die Toxizität des Benzols und seiner Chlorsubstitutionsderivate gegenüber Fischen (On the toxicity of benzol and its chlorine substitution derivatives to fishes). Ru Slovi

Experiments carried out with *Barbus conchoniuis*. Results of experiments coincide with those of experiments with *Cyprinus carpio*. Toxicity increases as follows: benzol < monochlorbenzol 1,2-, 1,3-, 1,4-dichlorbenzol < 1,2,4-trichlorbenzol.

**Carlson, I. H. & W. N. Holmes** (1962)FG  
62-01610*J. Endocrin.*, 24 (1) : 23-32

Changes in the hormone content of the hypothalamo-hypophysial system of the rainbow trout (*Salmo gairdneri*)

Trout subjected to handling showed an increase in pituitary and hypothalamic neurosecretory material. Transfer of fresh water fish to sea water was accompanied by a significant decline in pituitary antidiuretic material, possibly vasotocin, during first 3 hr; subsequent restoration to normal levels during the next 3 hr. The amount of oxytocic activity simultaneously increased and then returned to the control—freshwater—level.

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**Anon.** (1961)M  
62-01611*Discovery*, 22 (6) : 228

Electricity from the decomposition of organic matter

Biochemical fuel cell developed by Dr. F. D. Sisler of US Geological Survey. Unit consists of an anode section and a cathode section that are separated by an ion-diffusion barrier. The anode section contains a mixture of sea water, organic matter and bacteria; the cathode section contains sea water and oxygen. Sisler states that an inexpensive supply of both oxygen and organic fuel can be obtained by placing live algae in the cathode.

**Carter, G. S.** (1961)M  
62-01612*In* 62-01178 : 229-37

Evolution in the deep seas

Paper contributed to section on "Populations of the sea".

**Krey, J.** (1961)M  
62-01613*In* 62-01178 : 539-48

The balance between living and dead matter in the oceans

Paper contributed to section on "Cycles of organic and inorganic substances in the ocean".

**New South Wales. Laws, Statutes, etc.** (1961) M  
62-01614  
*Govt Gaz. N.S.W.*, (100) : 2847

Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to portion of waters of Nelson Bay, Port Stephens, County of Gloucester—23 August 1961

Prohibits the taking of fish by nets of every description in the specified tidal waters from 1 Dec. 1961 to 30 Nov. 1966.

**New South Wales. Laws, Statutes, etc.** (1961) M  
62-01615  
*Govt Gaz. N.S.W.*, (100) : 2847

Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to portion of waters of Botany Bay, County of Cumberland—30 August 1961

Prohibits the taking of worms and nippers by digging by means of a spade, fork or similar instrument in the specified tidal waters from 1 Jan. 1962 to 31 Dec. 1966.

**Canada. Laws, Statutes, etc.** (1961) M  
62-01616  
*Can. Gaz. (II)*, (11) : 744-51

SOR/61-218. Order in council P.C. 1961-779 amending the fish inspection regulations made under the fish inspection act—1 June 1961

The amendments relate to packing of spring mackerel, export of salted fish, certificates of registration for registered salt fish plants, and classes and grades of salted fish packed for export out of Canada.

**Canada. Laws, Statutes, etc.** (1961) M  
62-01617  
*Can. Gaz. (II)*, (11) : 769-76

DORS/61-218. Décret C.P. 1961-779 modifiant le règlement sur l'inspection du poisson selon la loi sur l'inspection du poisson—1 juin 1961 (SOR/61-218. Order in council P.C. 1961-779 amending the fish inspection regulations made under the fish inspection act—1 June 1961)

*Fr* 62-01616.

**Canada. Laws, Statutes, etc.** (1961) M  
62-01618  
*Can. Gaz. (II)*, (13) : 875

SOR/61-257. Order in council P.C. 1961-893 amending the fish inspection regulations made under the fish inspection act—22 June 1961

Revised section 46 relative to washing, holding, packing and exporting scallops.

- Canada. Laws, Statutes, etc. (1961)** M  
62-01619  
*Can. Gaz. (II), (13)*

DORS/61-257. Décret C.P. 1961-893 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson—22 juin 1961 (SOR/61-257. Order in council P.C. 1961-893 amending the fish inspection regulations made under the fish inspection act—22 June 1961)

*Fr* 62-01618.

- Canada. Laws, Statutes, etc. (1961)** M  
62-01620  
*Can. Gaz. (II), (14) : 1005*

SOR/61-304. Shellfishing order pursuant to the New Brunswick fishery regulations made under the fisheries act—30 June 1961

Prohibits fishing for, taking or possessing clams for the purpose of bait, food or for canning in certain areas along the coast and waters of the County of Charlotte and the County of Saint John and islands adjacent thereto.

- Canada. Laws, Statutes, etc. (1961)** M  
62-01621  
*Can. Gaz. (II), (14) : 1042*

DORS/61-304. Avis sur la pêche aux coquillages en vertu du règlement de pêche du Nouveau Brunswick selon la loi sur les pêcheries—30 juin 1961 (SOR/61-304. Shellfishing order pursuant to the New Brunswick fishery regulations made under the fisheries act—30 June 1961)

*Fr* 62-01620.

- Canada. Laws, Statutes, etc. (1961)** M  
62-01622  
*Can. Gaz. (II), (17) : 1322*

SOR/61-362. Order in council P.C. 1961-1161 amending the Nova Scotia fishery regulations made under the fisheries act—16 August 1961

No person shall fish for scallops from the 1st day of May to the 31st day of August both days inclusive, within seven nautical miles of the shores of the counties of Annapolis and Digby, between a straight line drawn due north magnetic from Parkers Cove, Annapolis County, and a straight line drawn due west magnetic from Whipple Point, Birar Island, Digby County.

- Canada. Laws, Statutes, etc. (1961)** M  
62-01622  
*Can. Gaz. (II), (17) : 1384*

DORS/61-362. Décret C.P. 1961-1161 modifiant le règlement de pêche de la Nouvelle Écosse en vertu de la loi sur les pêcheries—16 août 1961 (SOR/61-362. Order in council P.C. 1961-1161 amending the Nova Scotia fishery regulations made under the fisheries act—16 August 1961)

*Fr* 62-01622.



**Canada. Laws, Statutes, etc. (1961)**

M  
62-01624

*Can. Gaz. (II)*, (17) : 1325-6

SOR/61-365. Order in council P.C. 1961-1164 amending the canned fish and shell fish and cannery inspection regulations made under the meat and canned foods act—16 August 1961

The amendments relate to shrimp cocktail, cocktail crab meat and to canned Atlantic tuna.

**Canada. Laws, Statutes, etc. (1961)**

M  
62-01625

*Can. Gaz. (II)*, (17) : 1387-8

DORS/61-365. Décret C.P. 1961-1164 modifiant le règlement visant l'inspection des conserveries et des conserves de poisson, mollusques et crustacés selon la loi sur les viandes et conserves alimentaires—16 août 1961 (SOR/61-365. Order in council P.C. 1961-1164 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act—16 August 1961)

Fr 62-01624.

**Canada. Laws, Statutes, etc. (1961)**

M  
62-01626

*Can. Gaz. (II)*, (17) : 1375-83

SOR/61-385. Order in council P.C. 1961-1236 amending the Newfoundland fishery regulations made under the fisheries act—31 August 1961

Numerous amendments relative to definitions, closed areas, fishing methods, cod trap berths, etc.

**Canada. Laws, Statutes, etc. (1961)**

M  
62-01627

*Can. Gaz. (II)*, (17) : 1437-45

DORS/61-385. Décret C.P. 1961-1236, modifiant le règlement de pêche de Terre-Neuve en vertu de la loi sur les pêcheries—31 août 1961 (SOR/61-385. Order in council P.C. 1961-1236 amending the Newfoundland fishery regulations made under the fisheries act—31 August 1961)

Fr 62-01626.

**Chile. Laws, Statutes, etc. (1961)**

M  
62-01628

*Diario ofic., Santiago*, (25.001) : 1409

Decreto No. 618 estableciendo veda por los plazos que señala para los moluscos denominados choros (*Choromytilus chorus*) y almeja (*Venus thaca*)—11 de julio de 1961 (Decree No. 618, establishing closed seasons as listed for the molluscs *Choromytilus chorus* and *Venus thaca*—11 July 1961)

Prohibition from 30 Jul. 1961 to 30 Jul. 1964 in respect of *C. chorus* and from 1 Nov. to 15 Feb. in each year in respect of *V. thaca*.

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**Chile. Laws, Statutes, etc. (1961)** M  
62-01629  
*Diario ofic., Santiago*, (25.065) : 1892-3

Decreto No. 695 modificando el decreto supremo No. 618 de 11 de julio de 1961, en la forma que señala—1 de agosto de 1961 (Decree No. 695 amending supreme decree No. 618 of 11 July 1961, as indicated—1 August 1961)

Ad 62-01628. The three-year prohibition placed on the fishing of *Choromytilus chorus* to come into effect on 16 Aug. 1961 instead of 30 Jul. 1961.

**El Salvador. Laws, Statutes, etc. (1961)** M  
62-01630  
*Diario ofic., El Salvador*, (107) : 5123-4

Decreto No. 154 promulgando la ley de impuesto sobre exportación de Camarón—5 de junio de 1961 (Decree No. 154 promulgating the shrimp export tax act—5 June 1961)

Tax of US \$ .06 per lb.

**Greece. Laws, Statutes, etc. (1961)** M  
62-01631  
*Ephem. Kybern.*, 1 (78) : 860-1

Diatagam. No. 267 peri typepoiéseos ton alipáston sardellon, ántsougon kai gaúron (Royal decree No. 267, on the standardization of sardines, anchovies and other small salted fish—29 April 1961)

**Kerala. Laws, Statutes, etc. (1961)** M  
62-01632  
*Kerala Gaz.*, (35) Part 1 : 1980-1

Order G.O.Ms. 879/61Agr. proclaiming rules for the issue of Ambar Charkas to fishermen for providing subsidiary industries during the monsoon months—17 August 1961

To be supplied to fishermen cooperative societies; 25 per cent of the cost will be given as a grant and the balance will be recovered in five instalments.

**Mexico. Laws, Statutes, etc. (1961)** M  
62-01633  
*Diario ofic. Méx.*, (13) : 2-3

Decreto por el que se ordena que quede terminantemente prohibido que los barcos de cualquier nacionalidad, que naveguen en aguas territoriales de nuestro país o interiores nacionales, descarguen aceites o mezclas aceitosas en las mismas aguas—3 de julio de 1961 (Decree permanently prohibiting ships of any nationality navigating in Mexican territorial or inland waters from discharging oil or only mixtures therein—3 July 1961)

**Norway. Laws, Statutes, etc. (1961)** M  
62-01634  
*Norsk Lovtid.*, (20) : 520

Resolusjon om endr. i bestem. om kveitegarnsfisket—9 juni 1961 (Royal resolution amending the provisions relative to halibut fishing with nets—9 June 1961)

Concerns the taking of halibut by nets, trawling or lines and amends royal resolution of 22 Dec. 1955. *Inter alia*, governs mesh sizes.

**Peru. Laws, Statutes, etc. (1961)** M  
62-01635  
*Peruano*, (6058) : 1

Resolución suprema No. 240 estableciendo que el Ministerio de Fomento informará previamente para le otorgamiento de licencias a fábricas de harina de pescado. 14 de junio de 1961 (Supreme resolution No. 240, providing for consultation of the Ministry of Economic Development prior to the granting of licences for fish meal plants—14 June 1961)

Ministry of Agriculture will forward all applications for installation or modification to the Ministry of Economic Development prior to granting approval.

**South West Africa. Laws, Statutes, etc. (1961)** M  
62-01636  
*Off. Gaz. S.W. Afr.*, (2314) : 624

Gouvermentskenningsgewing No. 119: prysbeheer. Maksimum pryse van vismeel—9 Junie 1961 (Government notice No. 119 relating to price control—Maximum prices of fish meal—9 June 1961)

Repeals government notice No. 183 of 15 Aug. 1956 relating to maximum prices of farm feeds.

**Sweden. Laws, Statutes, etc. (1961)** M  
62-01637  
*Svensk. FörfSaml.*, (115-116) : 262

Kungl. Maj:ts kungörelse Nr 116 om vissa undantag från förbudet mot trålfiske—12 maj 1961 (Royal order No. 116, concerning certain exemptions from the prohibition of trawl fishing—12 May 1961)

In respect of certain zones. Fishing not to take place within 1 km of any island or reef.

**Sweden. Laws, Statutes, etc. (1961)** M  
62-01638  
*Svensk FörfSaml.*, (416-417) : 991

Kungl. Maj:ts kungörelse Nr 416 om ändrad lydelse av 2 och 3 §§ kungörelsen den 21 juli 1937 (nr 746) angående märkning av kärl, vari surströmming saluföres, m.m.—2 juni 1961 (Royal order No. 416, amending arts. 2 and 3 of order No. 746 of 21 July 1937, concerning the marking of containers for the sale of pickled Baltic herring—2 June 1961)

**Sweden. Laws, Statutes, etc. (1961)** M  
62-01639  
*Svensk FörfSaml.*, (407-408) : 959-60

Kungl. Maj:ts kungörelse angående fiske med trål utan s.k. bobbins vid rikets västra kust—16 juni 1961 (Royal order no. 407, concerning trawl fishing without reels on the west coast of the kingdom—16 June 1961)

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62-01640
- U.K. Laws, Statutes, etc.** (1961)  
*Statut. Instrum. U.K.*, (1700) : 2 p.  
 The Cumberland River Board (fixed engines) order, 1961—26 June 1961

This order enables the Cumberland River Board, with the approval of the Minister of Agriculture, Fisheries and Food, to erect and work fixed engines—which would otherwise be illegal instruments—for catching salmon and migratory trout for artificial propagation and scientific purposes.

- M  
62-01641
- U.K. Laws, Statutes, etc.** (1961)  
*Statut. Instrum. U.K.*, (1391) : 8 p.  
 The white fish subsidy (United Kingdom) scheme, 1961—29 June 1961

Ad 61-06624. The white fish and herring industries acts, 1953 and 1961 provide that with a view to promoting the landing in the UK of a continuous and plentiful supply of white fish, a scheme may be made for the payment of grants to the owners or charterers of fishing vessels engaged in catching such fish. This scheme succeeds the white fish subsidy (UK) scheme, 1960.

- M  
62-01642
- U.K. Laws, Statutes, etc.** (1961)  
*Statut. Instrum. U.K.*, (1392) : 2 p.  
 The white fish and herring subsidies (aggregate amount of grants) order, 1961—29 June 1961

Increases appropriate amount of grants under the white fish and herring industries act, 1953.

- M  
62-01643
- North Borneo. Laws, Statutes, etc.** (1961)  
*Govt Gaz. N. Borneo*, Suppl. 2, (S21) : 1 p.  
 No. S 107. The customs—temporary prohibition of imports—(No. 2) order, 1961 made under the customs ordinance, Cap. 33—15 September 1961

Prohibits, on account of cholera, the importation from Hong Kong, Macau, China or Sarawak of various products, incl. frozen or preserved fish and shellfish.

- M  
62-01644
- U.S. Laws, Statutes, etc.** (1961)  
*Publ. Law U.S.*, (87-167) 87th Congress, S. 2187 : 6 p.

The oil pollution act, 1961 : an act to implement the provisions of the international convention for the prevention of the pollution of the sea by oil, 1954—30 August 1961

- M  
62-01645
- U.S. Laws, Statutes, etc.** (1961)  
*Publ. Law U.S.*, (87-173) 87th Congress, S. 606 : 1 p.

An act to provide for the construction of a shellfisheries research center at Milford, Connecticut—30 August 1961

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- U.S. Laws, Statutes, etc. (1961)** M  
62-01646  
*Publ. Law U.S.*, (87-220) 87th Congress, H.R. 3159 : 1 p.

An act to permit certain foreign-flag vessels to land their catches of fish in the Virgin Islands in certain circumstances, and for other purposes—13 September 1961

Landing authorized for immediate consumption.

- Venezuela. Laws, Statutes, etc. (1961)** M  
62-01647  
*Gac. ofic. Venezuela*, (26.615) : 197493-6

Ley aprobatoria della "convención sobre el mar territorial y la zona contigua"—26 de julio de 1961 (Act approving the convention on the territorial sea and the contiguous zone—26 July 1961)

Adopted at Geneva, 29 Apr. 1958.

- Venezuela. Laws, Statutes, etc. (1961)** M  
62-01648  
*Gac. ofic. Venezuela*, (26-616) : 197501-4

Ley aprobatoria de la convención sobre la alta mar—26 de julio de 1961 (Act approving the convention on the high seas—26 July 1961)

Adopted at Geneva, 29 Apr. 1958.

- Venezuela. Laws, Statutes, etc. (1961)** M  
62-01649  
*Gac. ofic. Venezuela*, (26.617) : 197509-12

Ley aprobatoria de la "convención sobre pesca y conservación de los recursos vivos de la alta mar"—26 de julio de 1961 (Act approving the convention on fishing and the conservation of the living resources of the high seas—26 July 1961)

Adopted at Geneva, 29 Apr. 1958.

- Lozano Cabo, F. (1961)** M  
62-01650  
*Bol. Inst. esp. Oceanogr.*, (103) : v-x

Don Francisco de Paula Navarro Martin (1898-1960)—Nota biografica (Biographical note)

Obituary containing list of publications by the deceased.

- Anon. (1961)** MG  
62-01651  
*I.S.A.J.*, 8 (12) : 52-91

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- Fr* and *Es* versions issued separately. Contains informative abstr. of Nos. 60-9985, 61-04694, 61-04725, 61-04915, 61-07539, 61-08374, 61-11399, 61-12203, 61-11933, 61-13543, 61-13546, 62-01150, 62-01336 to 62-01346, 62-01370, 62-01371, 62-01383 to 62-01425, 62-01472, 62-01473, 62-01527 to 62-01529, 62-01579 and 62-01706, and technological notes under headings: Canned food—specialty products; Canning methods and equipment—conveyors; Fishing boats—equipment; Fishing methods and gear—seines—purse; Fishing methods and gear—auxiliary equipment for net fishing; Live storage of aquatic animals—miscellaneous fishes; Refrigerated transport—trucks.
- Bunting, A. H.** (1961) MF  
62-01653  
*Nature, Lond.*, 192 (4807) : 1028–30  
Food and agriculture in developing countries
- Ci 61-10914; incl. reference to work of R. S. Rack on Northern Rhodesian fishing industry, and of L. D. Stamp on the water hyacinth-pig-fish food chain in Hong Kong.
- Cutting, C. L.** (1961) MF  
62-01654  
*Nature, Lond.*, 192 (4807) : 1013–5  
Fish in nutrition
- No 61-099me.
- Kay, H. D.** (1961) MF  
62-01655  
*Nature, Lond.*, 192 (4808) : 1112–5  
The better use of the world's fauna for food
- No 61-032me. Incl. discussion of wild aquatic populations.
- New South Wales. Laws, Statutes, etc.** (1961) MF  
62-01656  
*Govt Gaz. N.S.W.*, (100) : 2846  
Proclamation, made under the fisheries and oyster farms act, 1935–1960, relating to the waters of Crooked River, County of Camden—30 August 1961
- Prohibits the taking of fish by nets of every description other than the prescribed dip or scoop net and a 20 ft. hand hauled net for the capture of prawns only in the listed tidal waters from 1 Nov. 1961 to 31 Oct. 1966.
- New South Wales. Laws, Statutes, etc.** (1961) MF  
62-01657  
*Govt Gaz. N.S.W.*, (100) : 2847  
Proclamation, made under the fisheries and oyster farms act, 1935–1960, relating to the waters of Clarence River, Counties of Clarence, Fitzroy, Gresham, Drake and Buller—30 August 1961
- Prohibits the taking of fish in the tidal waters and for the periods specified by nets of every description—schedule A—; by hauling nets, as prescribed by regulation 17—schedule B.

MISCELLANEOUS AND AUXILIARIES

**New South Wales. Laws, Statutes, etc. (1961)** MF  
62-01658  
*Govt Gaz. N.S.W.*, (105) : 2919

Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Redbank River or Corindi Creek, counties of Fitzroy and Clarence—6 September 1961

Prohibits the taking of fish by nets of every description in the specified tidal waters from 25 Jan. 1962 to 24 Jan. 1967.

**Queensland. Laws, Statutes, etc. (1961)** MF  
62-01659  
*Qd Govt Gaz.*, 208 (2) : 31-2

Order in council made under the fisheries acts, 1957 to 1959—31 August 1961

Rescinds the order of 13 Oct. 1960 and prohibits the taking of fish in the specified waters, except by nets of prescribed size and mesh.

**South Australia. Laws, Statutes, etc. (1961)** MF  
62-01660  
*S. Aust. Govt Gaz.*, (37) : 790-802

Amendment to regulations made under the food and drugs act, 1908-1954—24 August 1961

Extensive amendment to the regulations under the said act, and of the consolidation of regulations act, 1937, of 28 Aug. 1958. Relates, *inter alia*, to poisonous metals in foods, incl. fish, and tolerances thereof.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01661  
*Can. Gaz. (II)*, (11) : 736

SOR/61-214. Order in council P.C. 1961-749 amending the northwest territories fishery regulations made under the fisheries act—25 May 1961

The amendments relate to gill nets.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01662  
*Can. Gaz. (II)*, (11) : 760

DORS/61-214. Décret C.P. 1961-749 modifiant le règlement de pêche des territoires du nord-ouest en vertu de la loi sur les pêcheries—25 mai 1961 (SOR/61-214. Order in council P.C. 1961-749 amending the northwest territories fishery regulations made under the fisheries act—25 May 1961)

*Fr* 62-01661.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01663  
*Can. Gaz. (II)*, (11) : 740-3

SOR/61-217. Order in council P.C. 1961-778 amending the Quebec fishery regulations made under the fisheries act—1 June 1961

Numerous amendments relating to closed seasons, bag limits, fishing methods, etc.

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**Canada. Laws, Statutes, etc. (1961)** MF  
62-01664  
*Can. Gaz. (II)*, (11) : 764-8

DORS/61-217. Décret C.P. 1961-778 modifiant le règlement de pêche du Québec selon la loi sur les pêcheries—1 juin 1961 (SOR/61-217. Order in council P.C. 1961-778 amending the Quebec fishery regulations made under the fisheries act—1 June 1961)

*Fr* 62-01663.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01665  
*Can. Gaz. (II)*, (13) : 876-7

SOR/61-258. Order in council P.C. 1961-894 amending the New Brunswick fishery regulations made under the fisheries act—22 June 1961

Amendments relating mainly to salmon fishing.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01666  
*Can. Gaz. (II)*, (13) : 908-9

DORS/61-258. Décret C.P. 1961-894 modifiant le règlement de pêche du Nouveau Brunswick en vertu de la loi sur les pêcheries—22 juin 1961 (SOR/61-258. Order in council P.C. 1961-894 amending the New Brunswick fishery regulations made under the fisheries act—22 June 1961)

*Fr* 62-01665.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01667  
*Can. Gaz. (II)*, (13) : 928

SOR/61-271. Order in council P.C. 1961-936 amending the Nova Scotia fishery regulations made under the fisheries act—29 June 1961

The amendment relates to angling for salmon in certain areas.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01668  
*Can. Gaz. (II)*, (13) : 961

DORS/61-271. Décret C.P. 1961-936 modifiant le règlement de pêche de la Nouvelle Écosse en vertu de la loi sur les pêcheries—29 juin 1961 (SOR/61-271. Order in council P.C. 1961-936 amending the Nova Scotia fishery regulations made under the fisheries act—29 June 1961)

*Fr* 62-01667.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01669  
*Can. Gaz. (II)*, (16) : 1198-9

SOR/61-333. Order in council P.C. 1961-1094 amending the Nova Scotia fishery regulations made under the fisheries act—31 July 1961

The amendments relate to salmon fishing and to angling in certain rivers.



**Canada. Laws, Statutes, etc. (1961)** MF  
62-01670  
*Can. Gaz. (II)*, (16) : 1250-1

DORS/61-333. Décret C.P. 1961-1094 modifiant le règlement de pêche de la Nouvelle Écosse en vertu de la loi sur les pêcheries—31 juillet 1961 (SOR/61-333. Order in council P.C. 1961-1094 amending the Nova Scotia fishery regulations made under the fisheries act—31 July 1961)

*Fr* 62-01669.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01671  
*Can. Gaz. (II)*, (17) : 1323

SOR/61-363. Order in council P.C. 1961-1162 amending the Quebec fishery regulations made under the fisheries act—16 August 1961

With certain exceptions, prohibits fishing with seines, hoop-nets, or nets of any kind during July and August in each year in the rivers specified.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01672  
*Can. Gaz. (II)*, (17) : 1385

DORS/61-363. Décret C.P. 1961-1162 modifiant le règlement de pêche du Québec en vertu de la loi sur les pêcheries—16 août 1961 (SOR/61-363. Order in council P.C. 1961-1162 amending the Quebec fishery regulations made under the fisheries act—16 August 1961)

*Fr* 62-01671.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01673  
*Can. Gaz. (II)*, (17) : 1355

SOR/61-372. Order in council P.C. 1961-1206 amending the Prince Edward Island fishery regulations made under the fisheries act—25 August 1961

No person shall fish for, catch or kill salmon with nets of any kind from the eleventh day of October to the fourteenth day of May following, both days inclusive.

**Canada. Laws, Statutes, etc. (1961)** MF  
62-01674  
*Can. Gaz. (II)*, (17) : 1417

DORS/61-372. Décret C.P. 1961-1206 modifiant le règlement de pêche de l'île du Prince Edouard en vertu de la loi sur les pêcheries—25 août 1961 (SOR/61-372. Order in council P.C. 1961-1206 amending the Prince Edward Island fishery regulations made under the fisheries act—25 August 1961)

*Fr* 62-01673.

**Manitoba. Laws, Statutes, etc. (1961)** MF  
62-01675  
*Statut. Manitoba*, 10, Eliz. II, Chapter 18 : 91-4

An act to amend the game and fisheries act—15 April 1961

Various amendments relating *inter alia* to onus arising from possession of fish when prohibited.

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62-01676
- Newfoundland. Laws, Statutes, etc.** (1960)  
*Statut. Newfoundland*, 1960 : 430-6  
The waste material (disposal) act, 1960 : an act to revise the law respecting the disposal of waste material—5 July 1960  
Waste material disposal committees may be set up for specific areas. "Waste material" incl. refuse, garbage, rubbish, discarded material of all kinds and any material or thing that may be a danger to the health of human beings, animals, wild life or fish.
- MF  
62-01677
- Greece. Laws, Statutes, etc.** (1961)  
*Ephem. Kybern.*, 1 (64) : 614-5  
Praxis Ypourgikou symboulion No. 19 peri trópon èxophléseos opheilón ton alieón pròs tèn Agrotikèn Trápezan Helládos (Order no. 19 of the council of ministers, relating to methods of absorbing fishermen's debts to the Agricultural Bank of Greece—10 Feb. 1961)  
Relieves such debts of certain charges, reduces interest; waives payment of balances in certain cases.
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62-01678
- Greece. Laws, Statutes, etc.** (1961)  
*Ephem. Kybern.*, 1 (78) : 858  
Diatagm. No. 264 peri ántikatastáseos ton arthron 3 kai 4 tou ápò 9.10.1959 B.D. "peri kananismou álieias dià traton" (Royal decree No. 264, replacing arts. 3 and 4 of the royal decree of 9.10.1959 regulating fishing by certain types of nets—29 April 1961)  
Prohibited between 1 Jun. and 31 Aug. of each year; restricted to daylight hours in other seasons.
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62-01679
- Norway. Laws, Statutes, etc.** (1961)  
*Norsk Lovtid.*, (20) : 519-20  
Resolusjon om bestem. om snurpenotfiske etter størje—9 juni 1961 (Resolution concerning trawl fishing for sturgeon—9 June 1961)
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62-01680
- Poland. Laws, Statutes, etc.** (1961)  
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Ministra Żeglugi z dnia 5 sierpnia 1961 r. w sprawie nadawania uprawnień do prowadzenia produkcji eksportowej towarów rybnych (Decision of the Minister of Navigation concerning the grant of authorizations for the manufacture of fish products for export—5 August 1961)  
Measures governing the grant of such authorizations.
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62-01681
- Sweden. Laws, Statutes, etc.** (1961)  
*Svensk FörfSaml.*, (416-417) : 992  
Kungl. Maj:ts kungörelse Nr 417 angående ändring i kungörelsen den 21 november 1952 (nr 699) med vissa bestämmelser om storleken av maskor i fiskredskap av nät och om miniminått på fisk m.m.—16 juni 1961 (Royal order No. 417 amending order No. 699 of 21 November 1952, issuing regulations establishing fish net sizes and minimum fish sizes, etc.—16 June 1961)

MF

62-01682

**Sweden. Laws, Statutes, etc. (1961)***Svensk FörfSaml.*, (411) : 983-4

Kungl. Maj:ts kungörelse Nr 411 angående ändrad lydelse av den vid kungörelsen den 2 maj 1958 (nr 191) med tillämpningsföreskrifter till lagen den 6 april 1956 (nr 86) om åtgärder mot vattenförorening från fartyg fogade bilagan—30 juni 1961 (Royal order no. 411, amending annex A to royal order No. 191 of 2 May 1958, issuing regulations under act No. 86 of 6 April 1956 concerning measures for the prevention of the pollution of water by oil from ships—30 June 1961)

Redefining prohibited zones.

MF

62-01683

**U.A.R. (Syria). Laws, Statutes, etc. (1961)***Rec. Lois Législ. financ. U.A.R.*, (8) : 41

Arrêté N° 21 du 12 juin 1961 déterminant le montant de la cotisation annuelle pour l'assurance des accidents du travail des ouvriers pêcheurs (Order No. 21 determining the amount of annual premiums for insurance of fisheries workers against work accidents—12 June 1961)

Based on 25% of annual taxes imposed on fishing craft under act 144 of 1960.

MF

62-01684

**U.K. Laws, Statutes, etc. (1961)***Curr. Law Statut. annot.*, U.K., Part 6, 9 & 10 Eliz. 2, Chapter 50 : 12 p.

Rivers (prevention of pollution) act, 1961: an act to make further provision for maintaining or restoring the wholesomeness of the rivers and other inland or coastal waters of England and Wales—27 July 1961

Control of pre-1951 discharges, exemption for discharges which comply with conditions, general provisions as to conditions and consents governing discharges and new outlets, etc.

MF

62-01685

**Seychelles. Laws, Statutes, etc. (1961)***Seychelles Govt Gaz.*, (46) Suppl. : 188

S.I. No. 57 of 1961: the customs tariff—amendment—(No. 3) regulations, 1961 made under the customs tariff ordinance,—chapter 37—31 August 1961

Incl., *inter alia*, fish hooks, fishing lines and tackle—incl. nets.

MF

62-01686

**U.S. Laws, Statutes, etc. (1961)***Publ. Law U.S.*, (87-219) 87th Congress, H.R. 206 : 1 p.

An act to facilitate administration of the fishery loan fund established by section four of the fish and wildlife act of 1956, and for other purposes—13 September 1961

The Secretary of the Interior may administer, complete, recondition, operate, charter, etc. or sell any vessel, plant or other property acquired by him on behalf of the US and arising out of any fishery loan.

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- New South Wales. Laws, Statutes, etc.** (1961) F  
62-01689  
*Govt Gaz. N.S.W.*, (100) : 2847

Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to portion of the waters of Darling River above and below weir No. 32 at Menindee, County of Livingstone—23 August 1961

Prohibits the taking of fish by all methods in the specified inland waters from 1 Dec. 1961 to 30 Nov. 1965.

- New South Wales. Laws, Statutes, etc.** (1961) F  
62-01690  
*Govt Gaz. N.S.W.*, (100) : 2846

Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to certain waters in the counties of Wellington, Westmoreland, Murray, Selwyn, Goulburn, Beresford and Wallace—6 September 1961

Prohibits the taking of all spp. of fish in the listed waters and during the specified periods by all methods—schedule A—; by a single rod held in the hand and line supplemented by a gaff or landing net with artificial flies only as lures—schedule B—; and by a single rod held in the hand and line with artificial flies and spinners only as lures supplemented by a gaff or landing net—schedule C.

- Canada. Laws, Statutes, etc.** (1961) F  
62-01691  
*Can. Gaz. (II)*, (11) : 735

Statutory orders and regulations/61-213. Order in council P.C. 1961-748 amending the Nova Scotia fishery regulations made under the fisheries act—25 May 1961

Prohibits fishing for trout in various lakes from 1 Nov. to 30 Jun.

- F  
62-01692
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II), (11) : 759*  
 Décrets, ordonnances, et règlements statutaires 61-213. Décret C.P. 1961-748 modifiant le règlement de pêche de la Nouvelle Écosse en vertu de la loi sur les pêcheries—25 mai 1961 (Statutory orders and regulations/61-213. Order in council P.C. 1961-748 amending the Nova Scotia fishery regulations made under the fisheries act—25 May 1961)
- Fr 62-01691.*

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*Can. Gaz. (II), (13) : 927*  
 SOR/61-270. Order in council P.C. 1961-935 amending the northwest territories fisheries regulations made under the fisheries act—29 June 1961

Revokes prohibitions relative to angling for trout, to taking from the water any trout or grayling measuring less than a prescribed size, and to angling for pike, pickerel, dore or wall-eyed pike between certain dates.

- F  
62-01694
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II), (13) : 960*  
 DORS/61-270. Décret C.P. 1961-935 modifiant le règlement de pêche des territoires du nord-ouest en vertu de la loi sur les pêcheries—29 juin 1961 (SOR/61-270. Order in council P.C. 1961-935 amending the northwest territories fisheries regulations made under the fisheries act—29 June 1961)
- Fr 62-01693.*

- F  
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- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II), (17) : 1324*  
 SOR/61-364. Order in council P.C. 1961-1163 relative to rainbow trout fishing, pursuant to the fisheries act—16 August 1961

For the year 1961 only, the daily catch limit for rainbow trout in any of the waters described shall be five rainbow trout.

- F  
62-01696
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II), (17) : 1386*  
 DORS/61-364. Décret C.P. 1961-1163 concernant la pêche à la truite arc-en-ciel en vertu de la loi sur les pêcheries—16 août 1961 (SOR/61-364. Order in council P.C. 1961-1163 relative to rainbow trout fishing, pursuant to the fisheries act—16 August 1961)
- Fr 62-01695.*

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*Statut. Newfoundld., 1960* : 361  
The trout hatcheries and nurseries act, 1960: an act to encourage the establishment of trout hatcheries and nurseries—5 July 1960
- The Lieutenant-Governor in council may assure to any applicant the waters of any pond for the purpose of breeding fish, together with as much land surrounding the pond as he may deem necessary for the purpose of the applicant, and an assurance may be made by way of grant, lease or licence.
- F  
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Orden estableciendo el programa para la crianza de la rana toro (*Rana catesbiana*). 6 de junio de 1961 (Order establishing a program for breeding of bull-frogs, *Rana catesbiana*—6 June 1961)
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- F  
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Règlement grand-ducal du 16 août 1961, tendant à assurer la protection sanitaire du barrage d'Esch-sur-Sûre (Grand-ducal regulations for sanitary protection of the Esch-sur-Sûre dam—16 August 1961)
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- F  
62-01700
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*Rec. Lois féd., Berne, (43)* : 923  
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$$\frac{dW}{dt} = kW \left[ 1 - \left\{ \frac{W}{A} \right\} 1/0 \right]$$

is derived for case when sample values of  $\ln W$  are independent, unbiased,  
 and of constant variance. Tables assist computing of iterative process for  
 estimation; method given for obtaining starting values for parameters.  
 Possible sources and consequences of  $a$  deviations from assumptions underlying  
 fitting are discussed, and also difficulties involved in extending fitting to curves  
 defined by

$$dW/dt = aW^x - bW .$$



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Note on research vessel 'Eltanin' to be operated by US National Science Foundation in the Antarctic.

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Notes on extension of Plymouth laboratory; ICES Faroe Iceland survey; new national oceanographic research committee of India; launching of R/V 'Tellina' (UK); news of the R/V 'Thyrsites' (CSIRO), 'Cape St. Mary', 'Alister Hardy', 'Manichine'—'Eamfro' long-lining in Indian Ocean—; *Dugong* conservation; 1960 'Vitiaz' expedition; operation Monsson.

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Note on C.H.L. 'Richardson' being built in British Columbia for Canadian Department of Mines and Technical Surveys.

- M  
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- Anon. (1962)**  
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GENERAL

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The colours of *Ophiocomina nigra* (Abildgaard)—2. The occurrence of melanin and fluorescent pigments  
Co 62-01908.
- M  
62-01910
- Fontaine, A. R.** (1962)  
*J. Mar. biol. Ass. U.K.*, 42 (1) : 33-47  
The colours of *Ophiocomina nigra* (Abildgaard)—3. Carotenoid pigments  
Co 62-01909.

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62-01911  
*J. Mar. biol. Ass. U.K.*, 42 (1) : 49-64  
 Ionic regulation and mode of adjustment to reduced salinity of the starfish *Asterias rubens* L.
- Aquarium experiments with specimens from North Sea. Perivisceral and ambulacral fluids shown to be not only isosmotic but isoionic with sea water, even if that medium is diluted by nearly half.
- Boney, A. D. & E. D. S. Corner** (1962) M  
62-01912  
*J. Mar. biol. Ass. U.K.*, 42 (1) : 65-92  
 The effect of light on the growth of sporelings of the intertidal red alga *Plumaria elegans* (Bonnem.) Schm.
- Oldfield, E.** (1961)\* M  
62-01913  
*Proc. malac. Soc. Lond.*, 34 : 255-95  
 The functional morphology of *Kellia suborbicularis* (Montagu), *Montacuta ferruginosa* (Montagu) and *M. substriata* (Montagu), (Mollusca, Lamellibranchiata)
- Nikitin, V. N.** (1961) M  
62-01914  
*Dokl. Akad. Nauk SSSR (En Transl.)*, 138 (1-6) : 445-7  
 Quantitative distribution of bottom fauna in the northwestern part of the Black Sea
- En* 61-10554. Study of material collected by Institute of Oceanology expedition in 1949, refers to *Ostrea* and *Mytilus*, *Syndesmia* and *Melinna*, *Cardium* and many other molluscs, worms and crustaceans.
- Dragoli, A. L.** (1961) M  
62-01915  
*Dokl. Akad. Nauk SSSR (En Transl.)*, 138 (1-6) : 534-6  
 Peculiar feeding habits in the Black Sea polychaete *Melinna palmata* Grube
- En* 62-00193. Aquarium observations in 1958-60 at Odessa.
- Segawa, S. et al.** (1961) M  
62-01916  
*Sci. Bull. Fac. Agric. Kyushu*, 19 (1) : 125-33  
 (Studies on the floating seaweeds—7. Seasonal changes in the amount of the floating seaweeds found on Iki- and Tusima passages). *Ni En*
- Co 61-13236.
- Segawa, S. et al.** (1961) M  
62-01917  
*Sci. Bull. Fac. Agric. Kyushu*, 19 (1) : 135-40  
 (Studies on the floating seaweeds—8. The drifting movement of the floating seaweeds off northern coast of Kyushu). *Ni En*
- Co 62-01916.

- M  
62-01918
- Nakamura, K.** (1961)  
*Zool. Mag., Tokyo*, 70 (11) : 361-6

(Notes on changes of cleavage rate caused by heating prior to insemination in sea urchin eggs—1. *Hemicentrotus pulcherrimus* (A. Agassiz)). *Ni En*

- M  
62-01919
- Luther, W. & K. Fiedler** (1961)  
Berlin, Verlag Paul Parey, 253 p.

Die Unterwasserfauna der Mittelmeerküsten (The underwater fauna of the coasts of the Mediterranean Sea)

Ill. handbook of the shore fauna—invertebrate and vertebrate—and flora of the Mediterranean Sea.

- M  
62-01920
- Gorgone, I.** (1961)  
*R.C. Accad. Lincei*, 30 (2) : 250-3

Larve giganti uniche ottenute da due uova di ascidie fuse allo stadio di 8-blastomeri (Single gigantic larvae obtained from two eggs of Ascidiacea fused at the 8-blastomers stage)

Experiments made with eggs of *Ciona intestinalis*, *Phallusia mamillata* and *Ascidia malaca*.

- M  
62-01921
- Cusimano, T.** (1961)  
*R.C. Accad. Lincei*, 30 (6) : 921-5

Risultati di ulteriori esperimenti con nucleosidi purinici e pirimidinici nello sviluppo di uova di ascidie (Results of further experiments with purinic and pirimidinic nucleosids on the development of the eggs of Ascidiacea)

The development of eggs is inhibited at the stage of end of gastrulation or at the neurulation.

- M  
62-01922
- La Spina, R.** (1961)  
*R.C. Accad. Lincei*, 30 (6) : 926-7

Sviluppo di frammenti dell'uovo vergine di *Ascidia malaca* ottenuti mediante centrifugazione (Development of fragments of the virgin egg of *Ascidia malaca* obtained by means of centrifugation)

Importance of mitochondria in the embryonal morphogenesis.

- M  
62-01923
- Stagni, A.** (1961)  
*R.C. Accad. Lincei*, 30 (6) : 928-32

Ancora sulla genesi e sessualizzazione degli elementi germinali in esemplari rigeneranti di *Spirorbis pagenstecheri* (Further experiments on the genesis and sexualisation of the germinal elements in regenerating specimen of *Spirorbis pagenstecheri*)

It seems that the ablation of the conspicuous reserve or mesoblasts from the body of the serpulid polychaet in the acheto-region, inhibits an active posterior regeneration and excludes a sexual orientation of the few mesoblasts conserved.

M

**Farinella-Ferruzza, N.** (1961)

62-01924

*Ric. sci.*, 1 (1) : 37-41

Analisi della formazione del sistema nervoso nelle larve di ascidie in seguito a trattamento di alcuni blastomeri con LiCl (Analysis of the formation of the nervous system in ascidian larvae following treatment of some blastomeres with LiCl)

Suggests that LiCl acts both on the area competing to the nervous system, and on the evocatory area respectively suppressing competency or the inductive power.

M

**Ortolani, G.** (1961)

62-01925

*Ric. Sci.*, 1 (2) : 157-62

L'evocazione del cervello sulle larve delle ascidie (The evocation of brain in ascidian larvae)

The presumptive region of the cephalic epidermis is incapable of changing its fate under the inductor's action and differentiates exclusively into epidermis.

M

**Albanese, M. P.** (1960)

62-01926

*Atti Soc. pelor.*, 6 (3-4) : 443-51

Esame citometrico degli ovociti in accrescimento degli echinodermi—Nota 1. *Arbacia lixula* (Cytometric analysis of the oocytes in the growing phase of echinoderms—Note 1. *Arbacia lixula*)

The behaviour of oocytes in the growing phase of *Arbacia lixula* differs sensibly from that of *Antedon rosacea*.

M

**Cannata, F.** (1960)

62-01927

*Atti Soc. pelor.*, 6 (3-4) : 453-60

Esame citometrico degli ovociti in accrescimento degli echinodermi—Nota 2. *Sphaerechinus granularis* (Cytometric analysis of the oocytes in the growing phase of echinoderms—Note 2. *Sphaerechinus granularis*)

Observes that the behaviour of the nucleus, of the nucleolus and of the N/P, n/N and n/P ratio variously agrees with that of other spp. previously studied.

M

**Costanzo, G.** (1960)

62-01928

*Atti Soc. pelor.*, 6 (3-4) : 461-9

Esame citometrico sugli ovociti in accrescimento degli echinodermi—Nota 3. *Paracentrotus lividus* (Cytometric analysis of the oocytes in the growing phase of echinoderms—Note 3. *Paracentrotus lividus*)

Ascertains that the behaviour of the nucleus is similar to the one already noticed in *Gobius* and that the proceeding of the nucleolus and that of the N/n ratio are similar to that one in *Aplysia*.



- Parenzan, P.** (1961) M  
62-01929  
*Thalassia jon.*, 4 : 3-184.

Malacologia Jonica (Introduzione allo studio dei molluschi dello Jonio)  
(Ionian malacology—Introduction to the study of the molluscs of the Ionian  
Sea)

List of pelecypods, gastropods, amphineura, scaphopods and cephalopods;  
their ecology; edible molluscs, pathology; parasites; Italian and dialectal  
nomenclature; bibliography.

- Anichini, G.** (1961) M  
62-01930  
*Thalassia jon.*, 4 : 185-9

Ostracodi raccolti sul feltro epifitico della zona a zosteracee del secondo  
seno del Mar Piccolo di Taranto (Ostracods collected on the epiphytic layer  
of the zostera zone in the 2nd inlet of the "Mar Piccolo" of Taranto)

Finding of *Xestoleberis rara* and *Paradoxostoma intermedium*.

- Tortonese, E.** (1961) M  
62-01931  
*Thalassia jon.*, 4 : 190-4

Echinodermi di Taranto (Mar Jonio) (Echinodermata of Taranto—Ionian  
Sea)

Identification of 29 spp. of Crinoidea, Holothurioidea, Asteroidea, Echinoidea  
and Ophiuroidea.

- Consiglio, C.** (1960) M  
62-01932  
*Atti. Soc. ital. Sci. nat.*, 99 (4) : 410-30

Polimorfismo di *Sphaeroma serratum* del porto di Napoli (Crustacea, Isopoda)  
(Polimorphism of *Sphaeroma serratum* (Crustacea, Isopoda) from the harbour  
of Naples)

Different phenotypes, already described, have been found in this population.  
Description of the new phenotypes: *fasciatum*, *nigrum*, *roseum* and *sanguineum*,  
and of the first results of genetic experiments.

- Genovese, S.** (1959) M  
62-01933  
*Atti Soc. pelor.*, 5 (1) : 27-45

Sull'accrescimento di *Mytilus galloprovincialis* Lamarck (The growing  
ratio of *Mytilus galloprovincialis* Lamarck)

In the course of the growth these mussels assume a less large form but they  
present a tendency to become proportionally bigger.

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62-01934  
*Atti Soc. pelor.*, 5 (2-3) : 305-12  
 Ulteriori dati citometrici sugli ovociti in accrescimento di *Mytilus galloprovincialis* Lamk. (Further cytometric data on growing oocytes of *Mytilus galloprovincialis* Lamk.)  
 Observes that the proceeding of the nucleus-plasmatic, nucleolus-nuclear and nucleolus-plasmatic ratio remains by good approximation constant.
- Boring, J. R. & D. Pratt** (1961) M  
62-01935  
*Nature, Lond.*, 192 (4804) : 773-4  
 Spheroplasts of marine bacteria induced by the action of penicillin
- Hillman, R. E.** (1961) M  
62-01936  
*Science*, 134 (3492) : 1754-5  
 Formation of the periostracum in *Mercenaria mercenaria*  
 Series of histochemical tests on the mantle.
- Pederzini, A.** (1959) M  
62-01937  
*Atti Cent. ital. Ric. subacq.*, (1958-59) : 31-2  
 Scoperta di *Corallium rubrum* a Capo Fonza (Isola d'Elba) (Discovery of *Corallium rubrum* at Cape Fonza, Elba Island)
- Caprani, A.** (1959) M  
62-01938  
*Atti Cent. ital. Ric. subacq.*, (1958-59) : 33-7  
 Risultati di una escursione naturalistica lungo le coste orientali della Sicilia (Results of a naturalistic excursion along the east coast of Sicily)  
 Ecological underwater observations at Acitrezza and Santa Maria Scala, Acireale.
- Anon.** (1959) M  
62-01939  
*Atti Cent. ital. Ric. subacq.*, (1958-59) : 38-9  
 Caratteri termofili del bentos presso il promontorio di Portofino (Thermophilic characteristics of benthos near the point of Portofino)
- Congedo, R.** (1959) M  
62-01940  
*Atti Cent. ital. Ric. subacq.*, (1958-59) : 46-8  
 Esplorazione della parte sommersa della grotta Zinzulusa (Exploration of the submerged part of the Zinzulusa cave)
- Baschieri-Salvadori, F.** (1959) M  
62-01941  
*Atti Cent. ital. Ric. subacq.*, (1958-59) : 83-93  
 Prime indagini sui banchi perliferi del Golfo di Manaar (India) (First researches on the pearl-banks in the Gulf of Manaar, India)  
 Ecological observations.

- M  
62-01942
- Prosperi, F.** (1959)  
*Atti Cent. ital. Ric. subacq.*, (1958-59) :  
Osservazioni a Rocky Island nella grande barriera corallina (Observations at Rocky Island in the Great Barrier Reef)  
Faunistic underwater observations.
- M  
62-01943
- Motta, C.** (1959)  
*Atti. Cent. ital. Ric. subacq.*, (1958-59) : 100-8  
Nuovo contributo alla conoscenza del bentos di scogliera nel sublittorale ligure (New contribution to the knowledge of the rock benthos in the Ligurian sub-littoral)  
Underwater observations of the sub-littoral stages and their ecology.
- M  
62-01944
- Torelli, B.** (1960)  
*Pubbl. Staz. zool. Napoli*, 31 (3) : 373-85  
Chiarimenti su alcune strutture dei Ceriantharia (Explanations of some structures of Ceriantharia)  
Nomenclature and disposition of septa. Mesenteric filaments—acontia and craspedonema. The sulcus of *Cerianthus*.
- M  
62-01945
- Brinckmann, A. & K. W. Petersen** (1960)  
*Pubbl. Staz. zool. Napoli*, 31 (3) : 386-92  
On some distinguishing characters of *Dipurea reesi* Vannucci 1956 and *Cladonema radiatum* Dujardin 1843  
Comparison between the hydroid of *Dipurea* and the hydroid of *Cladonema*. The hydroid and medusa of *Dipurea* are recorded for the first time in Mediterranean.
- M  
62-01946
- Vannucci, M.** (1960)  
*Pubbl. Staz. zool. Napoli*, 31 (3) : 393-420  
On the intraspecific variation and biology of *Merga tergestina* (Anthomedusae, Pandeidae)  
Many hydroid colonies of *Merga* were taken on different substrata and their general habitus was found to vary according to the substratum on which they were living.
- M  
62-01947
- Sarà, M.** (1960)  
*Pubbl. Staz. zool. Napoli*, 31 (3) : 421-72  
Poriferi del litorale dell'isola d'Ischia e loro repartizione per ambienti (Poriphera from the coasts of Ischia Island and their environmental distribution)  
85 spp. of which 9 new and 6 new for the Bay of Naples were collected and determined.

- M  
62-01948
- Petersen, K. W. & M. Vannucci** (1960)  
*Pubbl. Staz. zool. Napoli*, 31 (3) : 473-92  
The life cycle of *Koellikerina fasciculata* (Anthomedusae, Pandeidae)

Biological study of this medusa which does not establish itself in northern European waters because it does not find there summer conditions for a period long enough for reproduction.

- M  
62-01949
- Pajetta, M. & C. Samuelli** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 1-8  
Ricerche sulle affinità delle proteine degli echinodermi (Comparative biochemical studies on the proteins of Echinodermata)

The data obtained suggest that there is a close affinity between echinoids and ophiuroids.

- M  
62-01950
- Renzoni, A.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 9-16  
Osservazioni sulle gonadi di mitilo (*Mytilus galloprovincialis* Lam.) (Observations on the gonads of the mussel, *Mytilus galloprovincialis* Lam.)

Seasonal changes of glycogen. The amount of this substance is proportional to the number of vesicular cells in the interstitial tissue.

- M  
62-01951
- Torelli, B.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 17-28  
Un *Cerianthus* del Golfo di Napoli *C. bicyclus* n.sp. (Anthozoa) (A new species of *Cerianthus* from the Gulf of Naples, *C. bicyclus* (Anthozoa))

*C. oligopodus*, *C. solitarius* and the new *Cerianthus* might represent different stages of development of *C. solitarius*. The taxonomy of the genus is discussed.

- M  
62-01952
- Sagromsky, H.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 29-40  
Durch Licht-Dunkel-Wechsel induzierter Rhythmus in der Entleerung der Tetrasporangien von *Nitophyllum punctatum* (Rhythm of tetraspore discharge in *Nitophyllum punctatum* induced by alternate light and darkness)

The *Nitophyllum* behaviour is similar to that of some fungi.

- M  
62-01953
- Delavault, R.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 41-57  
La sexualité chez *Echinaster sepositus* Gray du Golfe de Naples (Sexuality in *Echinaster sepositus* Gray of the Gulf of Naples)

*E. sepositus* is gonochoric, but some hermaphroditic individuals exist also. Its sexuality is less stable than that found in other echinoderms where hermaphroditism is truly accidental.

- M  
62-01954
- Naylor, E.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 58-63  
Spontaneous locomotor rhythm in Mediterranean *Carcinus*
- Greatest activity was observed at night. Comparative behaviour between that sp. and the closely related British sp.
- M  
62-01955
- Dijkgraaf, S.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 64-87  
The statocyst of *Octopus vulgaris* as a rotation receptor
- The statocyst contains rotation receptors stimulated by endolymph flow, and it is sensitive to rotation in either direction. Some of the rotation receptors are innervated by the posterior crista nerve.
- M  
62-01956
- Gerzeli, G.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 88-103.  
Ricerche istomorfologiche e istochimiche sulla formazione del bisso in *Mytilus galloprovincialis* (Histomorphological and histochemical researches on the formation of the byssus in *Mytilus galloprovincialis*)
- Three parts are identified in the gland of the foot. The byssus formation involves a quinone tanning mechanism.
- M  
62-01957
- Höfler, K.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 109-29  
Vitalfärbenstudien an Florideen (Vital-staining for Florideae)
- In 11 spp. studied special attention was paid to the process during vital staining and a new type of cell component capable of accumulating stains was found.
- M  
62-01958
- Langen, P.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 130-3  
Über Unterschiede im Gehalt an labilem Phosphat zwischen Rot- und Braunalgen (Labile phosphate content in red and brown algae)
- There is a possibility of a genuine biochemical difference between the two classes of algae: namely the red algae can produce polyphosphates while brown algae cannot.
- M  
62-01959
- Yamada, M.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 134-43  
Polyp and medusa of *Podocoryne hartlaubi* Neppi & Stiasny (Hydrozoa) from the Gulf of Naples
- The polyp of this sp. is described for the first time. Only female Medusae were liberated.

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- M  
62-01960
- Funk, G.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (2) : 172-86  
Ergänzungen und Berichtigungen zur Meeresalgenflora von Neapel (Further contributions to the knowledge of the algal flora of Naples)  
Additional list of benthonic algae.
- M  
62-01961
- Lewallé, J.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (2) : 241-71  
Détermination macroscopique des algues rouges calcaires (Corallinaceae et Squamariaceae partim) du golfe de Naples (Macroscopical determination of the calcareous red algae (Corallinaceae et Squamariaceae partim) of the Gulf of Naples)  
A key is proposed to identify the spp. 37 spp. are characterized incl. their ecology and localization.
- M  
62-01962
- Wenzel, F.** (1961)  
*Pubbl. Staz. zool. Napoli*, 32 (2) : 272-7  
Ciliaten aus marinen Schwämmen (Ciliates from marine sponges)  
16 of 26 examined sponges from the Gulf of Naples were inhabited by ciliates. A strict relation to the biotope "sponge" could not be observed.
- M  
62-01963
- Lenhoff, H. M.** (1961)  
*Science*, 134 (3494) : 1989-90  
Hydra  
Do 61-241me; report of meeting at which workers from many fields considered the physiology and ultrastructure of hydra and other coelenterates.
- M  
62-01964
- Evans, G. O.** (1962)  
*Ann. Mag. nat. Hist.*, 4 (45) : 553-6  
A new mite of the genus *Thinoseius* Halbert (Mesostigmata: Eviphididae)  
Mites of this genus are characteristic members of fauna of tidal debris. Material from Northumberland, England, collected 1961 by J. T. Salmon.
- M  
62-01965
- Booth, E.** (1962)  
*Nature, Lond.*, 193 (4813) : 331-3  
Seaweed technology  
Do 60-179me.
- M  
62-01966
- Mathews, M. B., J. Duh & P. Person** (1962)  
*Nature, Lond.*, 193 (4813) : 378-9  
Acid mucopolysaccharides of invertebrate cartilage  
Incl. analyses of *Loligo* and *Limulus*.

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- Kurc, G.** (1961) MF  
62-01967  
*Rev. Trav. Inst. Pêches marit.*, 25 (2) : 133-247  
Foraminifères et ostracodes de l'étang de Thau (Foraminifers and ostracods from the sea lagoon of Thau)

Monograph of the fauna ecology in relation with physical and chemical characteristics of the lagoon. Based on the present observations and on other bathymetric and sedimental informations, evolution of the lagoon is discussed.

- Sacchi, C. F.** (1961) MF  
62-01968  
*Vie et Milieu*, 12 (1) : 37-65

L'évolution récente du milieu dans l'étang saumâtre dit "Lago di Patria" (Naples) analysée par sa macrofaune invertébrée (Recent evolution of the environment in the brackishwater lagoon of "Lago di Patria", Naples, based on the analysis of its invertebrate macrofauna)

Summarizes information on salinity, oxygen, nutrients, pH, temperature and the biocoenoses succession in recent years.

- Fulton, C. M.** (1960) MF  
62-01969  
Thesis, The Rockefeller Inst., U.S., 171 p.  
The biology of a colonial hydroid

DA 22 (4) : 979-80. Brackish-water *Cordylophora lacustris* domesticated so that it could be grown and manipulated under controlled laboratory conditions. Methods developed permitting exponential increase in hydranth number with a doubling time of about three days. Fed with living larvae of *Artemia*.

- Yonge, C. M.** (1962) MF  
62-01970  
*J. Mar. biol. Ass. U.K.*, 42 (1) : 113-25

On the primitive significance of the byssus in the bivalvia and its effects in evolution

Comprehensive review of subject.

- Petursson, S.** (1961) MF  
62-01971  
*Náttúrufræðingurinn*, 31 (2) : 78-93  
(Algae). *Is*

BAgr., 25 (10) 78812.

- Matsui, K., T. Minamizawa & N. Ai** (1961) MF  
62-01972  
*Zool. Mag., Tokyo*, 70 (11) : 395-401

(Effect of stretching on the beat of single muscle bundle preparations from a molluscan heart). *Ni En*

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- Boggero, C.** (1961) MF  
62-01973  
*Boll. Soc. ital. Biol. sper.*, 37 (21) : 1077-8  
Prima impostazione di una ricerca algologica (Preliminary studies for  
algological research)  
Algal cultures for the research of appropriate algaecides.
- Giordani Soika, A.** (1959) MF  
62-01974  
*Atti Soc. ital. Sci. nat.*, 98 (2-3) : 218-22  
Migrazioni di *Cyclonassa neritea* (L.) nella zona intercotidale di spiagge  
marine (Moll. Gasterop.) (Migrations of *Cyclonassa meritea* L. (Moll. Gastrop.)  
in the intertidal zone of marine beaches)  
Study of the migrations toward the sea of this gastropod of the brackish-  
water fauna.
- Ranson, G.** (1962) MF  
62-01975  
*C.R. Acad. Sci., Paris*, 254 (5) : 933-5  
Le problème du calcaire chez les mollusques (The problem of the calcaire  
in the molluscs)  
Discusses the formation and structure of the shell material.
- Weinstein, F.** (1961) MF  
62-01976  
*Vie et Milieu*, 12 (1) : 119-23  
Sur les caractères et la position systématique du genre *Paklosyllis* Hartmann-  
Schröder (On the characters and the systematic position of genus *Plakosyllis*  
Hartmann-Schröder)  
Based on material collected at Banyuls-sur-Mer.
- Henry, J.-P. & G. Magniez** (1962) F  
62-01977  
*C.R. Acad. Sci., Paris*, 254 (2) : 363-5  
Variabilité de la répartition pigmentaire céphalique chez *Asellus aquaticus*  
L. (Variability of the distribution of the cephalic pigmentation in *Asellus*  
*aquaticus* L.)
- Lemasson, C.** (1962) F  
62-01978  
*C.R. Acad. Sci., Paris*, 254 (3) : 540-2  
Étude en culture d'un *Cladophora* (Study of a *Cladophora* during culturing)  
Describes morphology and asexual reproduction.
- Bourrelly, P.** (1961) F  
62-01979  
*Bull. Inst. franç. Afr. noire*, 23 (2) : 283-368  
Algues d'eau douce de la République de Côte d'Ivoire (Freshwater algae  
of the Republic of Ivory Coast)  
Catalogue of spp. with taxonomic descriptions and notes on distributions.



- F  
62-01980
- Troupin, G.** (1959)\*  
*Bull. Jard. bot. Brux.*, 29 : 4, 313-7  
Nouvelles plantes aquatiques pour la flore du Congo et du Ruanda-Urundi  
(New aquatic plants for the flora of Congo and Ruanda Urundi)
- F  
62-01981
- Marlier, G.** (1959)\*  
*Rev. Zool. Bot. afr.*, 59 (1-2) : 164-83  
Observations sur la biologie littorale du lac Tanganika (Observations on the littoral biology of Lake Tanganyika)
- F  
62-01982
- Steel, E. A.** (1961)  
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*J. Mar. biol. Ass. India*, 2 (1) : 35-50  
The morphology and life history of *Echinochasmus bagulai* Verma, 1935 (Trematoda: Echinostomatidae) with ecological observations on its larval forms  
First record of marine cercaria and metacercarian from India; Two year data; hosts were snail *Natica* and bivalve *Katelysia* from tidal mudflat at Pamban; % infection, effect on host. Morphology.

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**Jones, S.** (1960) M  
62-02069  
*J. Mar. biol. Ass. India*, 2 (1) : 51-2

Notes on animal associations—2. The Scyphomedusa, *Acromitus flagellatus* Stiasny & young *Seleroides leptolepis* (Cuvier & Valenciennes) with the latter forming a vanguard

Co 61-07036. Underwater observations 28 Apr. 1960 in Gulf of Mannar. Previous observations relate to fish swimming under the medusa umbrella.

**Kunju, M. M.** (1960) M  
62-02070  
*J. Mar. biol. Ass. India*, 2 (1) : 82-4

On new records of five species of Penaeinae (Decapoda Macrura: Penaeidae) on the west coast of India

*Parapenaeopsis*, *Metapenaeopsis*, *Trachypenaeus*, *Atyopenaeus* in Bombay landings.

**Jones, S.** (1960) M  
62-02071  
*J. Mar. biol. Ass. India*, 2 (1) : 85-8

On the snake mackerel, *Gempylus serpens* Cuvier from the Laccadive Sea

Description of 2 specimens taken by 'Kalava,' 29 Apr. 1959; distribution of larvae.

**Silas, E. G.** (1960) M  
62-02072  
*J. Mar. biol. Ass. India*, 2 (1) : 89-94

On a little known Indian cobitid fish, *Enobarbichthys maculatus* (Day)

Description and taxonomic discussion; synonymy with *Platacanthus maculatus* Day 1867 and *Jerdonia maculata* Day 1870.

**Raju, G.** (1960) M  
62-02073  
*J. Mar. biol. Ass. India*, 2 (1) : 95-102

A case of hermaphroditism and some other gonadal abnormalities in the skipjack *Katsuwonus pelamis* (Linnaeus)

Two abnormal gonads, incl. one hermaphrodite in sample of 2300 from Laccadive Sea, described and ill.

**Rao, K. V.** (1960) M  
62-02074  
*J. Mar. biol. Ass. India*, 2 (1) : 124-6

On an epizoic gastropod, *Saptadanta nasika* Prasad & Rao, on the shells of *Pterocera* Lamarck

Observations from Minicoy, in Laccadive Islands.

AQUATIC STOCKS

- M
- Rao, K. V. N.** (1960) 62-02075  
*J. Mar. biol. Ass. India*, 2 (1) : 132-5  
 A short account of the wahoo, *Acanthocybium solandri* (Cuvier & Valenciennes)

Describes specimens taken in 1959 at Vizhingam, SW India. Parasites; stomach contents; meristic counts and morphometry.

- M
- Jones, S., E. G. Silas & E. Dawson** (1960) 62-02076  
*J. Mar. biol. Ass. India*, 2 (1) : 136-7  
 New records of scombroid fishes from the Andaman-Nicobar waters.

Collections of Feb.-Mar., 1960, incl. *Rastrelliger*, *Euthynnus*, *Gymnosarda*, *Grammatorcynus*, *Scomberomorus*, *Istiophorus* and *Acanthocybium*.

- M
- Berland, B.** (1961) 62-02077  
*Sarsia*, (2) : 1-50  
 Nematodes from some Norwegian marine fishes.

260 specimens of fish, belonging to 64 spp., some of commercial importance, have been searched for nematode parasites. 9 spp. of fish were found to be free of nematodes; techniques for collecting, fixing, clearing and examination are described. Lists of parasites and hosts are given.

- M
- Ryland, J. S.** (1961) 62-02078  
*Sarsia*, (1) : 31-8  
 Two species of *Loxosomella* (Entoprocta) from west Norway

Discusses systematic problems based on specimens of Norwegian coast.

- M
- Sindermann, C. J. & D. F. Mairs** (1961) 62-02079  
*Biol. Bull., Woods Hole*, 120 (3) : 401-10  
 A blood group system for spiny dogfish, *Squalus acanthias* L.

- M
- Anon.** (1961) 62-02080  
*France pêche*, 6 (50) : 79-80  
 Fiche technique des argentines (Fishery card on silver fishes)

Detachable cards, ill., giving biology, habitat, fishing, catch, commercial use of *Argentina sphyraena* and *A. silus*.

- M
- Buesa Mas, R. J.** (1961) 62-02081  
*Contr. Cent. Invest. pesq., Cuba*, (12) : 66 p.

Segunda pesca exploratoria y datos biologicos de la langosta *Panulirus argus* en Cuba. (Second exploratory fishing and biological data on the spiny lobster, *Panulirus argus* in Cuba)

Results of exploratory fishing, studies of environmental conditions of areas of distributions and length-weight relationship.

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- M  
62-02082
- von Wahlert, G. & H. von Wahlert** (1961)  
*Vie et Milieu*, 12 (1) : 1-10  
Le comportement de nettoyage de *Crenilabrus melanocercus* (Labridae, Pisces) en Méditerranée (Cleaning behaviour of *Crenilabrus melanocercus* (Labridae, Pisces) in the Mediterranean)  
Observations on the picking activity of *Coris julis*; discusses cleaning behaviour of fishes.
- M  
62-02083
- Monniot, C.** (1961)  
*Vie et Milieu*, 12 (1) : 97-103  
Les parasites de *Microcosmus* Heller et les modalités de leur répartition (The parasites of *Microcosmus* Heller and the patterns of their location)  
Reports observations on Mediterranean material and discusses factors responsible for infestation patterns.
- M  
62-02084
- Reinboth, R.** (1961)  
*Vie et Milieu*, 12 (1) : 105-11  
L'espèce *Pagellus bogaraveo* (Brünnich), Sparidae, existe-t-elle? Contribution à une controverse systématique (Does the species *Pagellus bogaraveo* (Brünnich) Sparidae, exist? Contribution to a controversial discussion on systematics). En  
Genus *Pagellus* incl. only 2 spp.: *P. acarne* (Risso) and *P. bogaraveo* (Brünnich). *P. cantabricus* and *P. centrodontus* fall into synonymy of *P. bogaraveo*.
- M  
62-02085
- Monniot, C.** (1961)  
*Vie et Milieu*, 12 (1) : 113-7  
*Enteropsis chattoni* n.sp. copépode parasite de l'ascidie *Microcosmus vulgaris* Heller (*Enteropsis chattoni* n.sp. parasitic copepod of the ascidian *Microcosmus vulgaris* Heller)
- M  
62-02086
- Watson, J. E.** (1961)  
*Progr. Fish-Cult.*, 23 (3) : 105  
The branding of sea herring as a short-term mark
- M  
62-02087
- Dahl, E.** (1960)  
*Univ. Bergen Arb. naturv. R.*, 1959 (9) : 1-8  
The hyperiid amphipod, *Hyperia galba*, a true ecto-parasite on jelly-fish  
CR 59-2963.



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- Svetovidov, A. N.** (1960) M  
62-02088  
*Univ. Bergen Arb. naturv. R.*, 1959 (11) : 1-11  
 A note on *Theragra finmarchica* Koefoed
- The zoogeographical importance of the recent finding of a sp. of the North Pacific genus *Theragra* (*T. finmarchica* Koefoed 1956) in the North Atlantic is discussed.
- Hayes, D. K.** (1961) M  
62-02089  
 Thesis, Univ. of Minnesota, U.S., 292 p.  
 Body fluid and skeletal tissue interrelations in the American lobster
- DA 22 (4) : 993-4.
- Endean, R.** (1961) M  
62-02090  
*Aust. J. Mar. Freshw. Res.*, 12 (2) : 177-90  
 A study of the distribution, habitat, behaviour, venom apparatus, and venom of the stone-fish
- Synanceja trachynis* in Queensland. Incl. aquarium observations.
- Parrish, B. B.** (1962) M  
62-02091  
*Fish. News int.*, 1 (2) : 42-5  
 Decline of British herring fisheries in the North Sea
- Kearn, G. C.** (1962) M  
62-02092  
*J. Mar. biol. Ass. U.K.*, 42 (1) : 93-104  
 Breathing movements in *Entobdella soleae* (Trematoda, Monogenea) from the skin of the common sole
- During August 1960 and April 1961, living specimens were recovered from blind surfaces of *Solea solea* L. caught at Plymouth.
- Bagenal, T. B.** (1962) M  
62-02093  
*J. Mar. biol. Ass. U.K.*, 42 (1) : 105-12  
 The fecundity of plaice from the coasts of Norway
- Co 60-6626. Concerned with number of eggs in the roes of ripening *Pleuronectes platessa* L. caught on the south and west coast of Norway during the early spring of 1960.
- Abbott, R. T.** (1961) M  
62-02094  
 New York, New Amer. Libr., 222 p.  
 How to know the American marine shells
- CR 62-00166. A guide to shells of Atlantic and Pacific coasts, containing a digest of shellfishery laws and a list of shells by localities. With color ill.

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- Anon.** (1962)  
*Mondo sommerso*, 4 (1-2)  
Atlante dei pesci delle coste italiane (Fish atlas of the Italian coasts)
- Detachable cards, ill., with notes on morphology, reproduction, nutrition and geographical distribution of *Scyliorhinus canicula*, *S. stellaris*, *Blennius (Salaria) gattoruggine*, *Merluccius merluccius*, *Lophius piscatorius*, *Anthias anthias*.
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- Longhurst, A. R.** (1961)  
*Nature, Lond.*, 192 (4803) : 621-2  
Trawl fishing in the tropical Atlantic—Preliminary bionomic data from West African fisheries
- Ci 62-02006. Length and weight at age, mortality rate of spp. of *Pseudolithus*, *Drepane*, *Galeoides*, *Pentanemus*, *Chaetodipterus*, *Pagrus*, *Pristipoma*.
- M  
62-02097
- Miller, P. J.** (1961)  
*Nature, Lond.*, 192 (4803) : 675-6  
The species of the teleostean genus *Lebetus*
- Taxonomic discussion, examination of types of *Gobius* spp. Meristic and morphometric characters.
- M  
62-02098
- Arudpragasam, K. D.** (1960)  
*Ceylon J. Sci. (biol. Sci.)*, 3 (2) : 167-72  
On the anatomy of a two headed shark
- Ill. description of young male of unidentified genus and sp.
- M  
62-02099
- Guiler, E. R.** (1961)  
*Aust. J. Sci.*, 24 (6) : 297-8  
A pregnant female pygmy Right whale
- Description of dead female washed ashore, providing the first evidence of breeding in this sp.
- M  
62-02100
- Rapson, A. M.** (1962)  
*S. Pacif. Bull.*, 12 (1) : 46-7  
Better barramundi catches for Papuan fishermen
- Brief review of experiments being carried out with gill nets and fish traps to improve catches.

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62-02101
- Hamabe, M.** (1961)  
*Zool. Mag., Tokyo*, 70 (11) : 377-84  
(Experimental studies on breeding habits and development of the squid, *Ommastrephes sloani pacificus* Steenstrup—1. Copulation). *Ni En*

Observations on mating activities using specimens obtained from a set off under experimental conditions.

- M  
62-02102
- Hamabe, M.** (1961)  
*Zool. Mag., Tokyo*, 70 (11) : 385-94  
(Experimental studies on breeding habits and development of the squid, *Ommastrephes sloani pacificus* Steenstrup—2. Spawning behaviour). *Ni En*

Experiments carried out on mature females in Urago Bay, 1958-59.

- M  
62-02103
- Torchio, M.** (1961)  
*Natura, Milano*, 52 (2) : 53-6  
Su due rarissime forme ittiche dei mari di Sicilia (On two very rare fishes of the Sicilian Sea)

Observations on *Arothron hispidus* L. (Tetraodontidae) and *Pomatomichthys constanciae* Giglioli (Percoidea).

- M  
62-02104
- Torchio, M.** (1961)  
*Natura, Milano*, 52 (3) : 92-104  
Il dimorfismo sessuale dei Bothidae del Mediterraneo (Sexual dimorphism of the Mediterranean Bothidae)

The Bothidae of the Mediterranean Sea incl. strongly, moderately and little dimorphic spp. The only characteristic always sensible on a good series of mature specimens is the greatest size of the female individuals. Follows a prospect of the sexual secondary characters of mature males of Mediterranean Bothidae.

- M  
62-02105
- Roghi, G.** (1961)  
*Natura, Milano*, 52 (3) : 109-12  
Osservazioni sul pesce luna *Mola mola* (L.) (Observations on the sunfish, *Mola mola* (L.))

Underwater observations on the swimming behaviour and the vertical resting position.

**Torchio, M.** (1960)

M  
62-02106

*Atti Soc. ital. Sci. nat.*, 99 (4) : 301-13

Contributo alla conoscenza di talune forme ittiche del Mar Ligure—1.  
(Contribution to the knowledge of some fishes of the Ligurian Sea)

Reports the catch of the following spp.: *Cetorhinus maximus*, *Oxynotus centrina*, *Ariosoma mystax*, *Echelus myrus*, *Anthias anthias*, *Naucrates ductor*, *Coryphaena hippurus*, *Brama raji*, *Labrus bimaculatus*, *Crenilabrus melops*, *C. quinquemaculatus*, *C. cinereus*, *Trachinus vipera*, *T. araneus*, *T. draco*, *Thunnus alalunga*, *Xiphias gladius*, *Solea ocellata*.

**Torchio, M.** (1960)

M  
62-02107

*Atti Soc. ital. Sci. nat.*, 99 (4) : 431-4

Ritrovamento di *Strinsia tinca* Raf. nelle acque di Messina (Pisces, Gadiformes) (Catch of *Strinsia tinca* Raf. (Pisces, Gadiformes) in the waters of Messina)

Description of a specimen collected in 1936 at Ganzirri, Messina.

**Albanese, M. P. & A. Bolognari** (1959)

M  
62-02108

*Atti Soc. pelor.*, 5 (2-3) : 105-18

Esame morfologico e volumetrico dell'ipofisi di teleostei abissali e bentonici (Morphological and volumetric aspects of the hypophysis of abyssal and benthic teleosts)

No valuable differences were detected between the said groups, while marked differences were checked in each sp. between the two sexes.

**Labruto, G. & E. Bruno** (1960)

M  
62-02109

*Atti Soc. pelor.*, 5 (4) : 513-21

Ricerche sui componenti dell'olio estratto dalle ossa del capo di *Xiphias gladius* (Pesce spada) (Researches on the components of the oil extracted from the skull's bones of *Xiphias gladius*—sword-fish)

Tables with chemical and physico-chemical data.

**Chieffi, G.** (1961)

M  
62-02110

*Pubbl. Staz. zool. Napoli*, 32 (1) : 145-64

La luteogenesis nei selaci ovovivipari. Ricerche istologiche e istochimiche in *Torpedo marmorata* e *Torpedo ocellata* (Luteogenesis in ovoviviparous selachians. Histological and histochemical researches in *Torpedo marmorata* and *Torpedo ocellata*)

The data obtained suggest that the reproductive cycle of *Torpedo* may be controlled by the ovary through an endocrine mechanism.

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- Pfeiffer, W.** (1961) M  
62-02111  
*Pubbl. Staz. zool. Napoli*, 32 (1) : 167-71  
 Zur Biologie des Zitterrochen ( *Torpedo marmorata* Risso) (The biology of the electric ray, *Torpedo marmorata* Risso)

*T. marmorata* uses its electric organs to capture its prey. Predative behaviour.

- Holliman, R. B.** (1961) M  
62-02112  
*Tulane Stud. Zool.*, 9 (1) : 3-74

Larval trematodes from the Apalachee Bay area, Florida, with a checklist of known marine Cercariae arranged in a key to their superfamilies

Morphological and taxonomic study of Cercariae from 39 spp. of marine molluscs, conducted during Sep. 1956 to Sep. 1959. Historical review of literature on marine Cercaria, techniques and methods for cercarial study are discussed. 24 new spp. are described.

- Springer, V. G. & A. J. McErlean** (1961) M  
62-02113  
*Tulane Stud. Zool.*, 9 (2) : 77-85

Spawning seasons and growth of the code goby, *Gobiosoma robustum* (Pisces: Gobiidae), in the Tampa Bay area

Egg diameter measurements indicate that spawned from early spring to early summer and from late summer to fall during 1960 in the Tampa Bay area. Standard length frequency progressions support egg diameter data and also indicate that *G. robustum* is an annual sp. Sex ratios, maturity.

- Short, R. B.** (1962) M  
62-02114  
*Tulane Stud. Zool.*, 9 (3) : 101-11

Two new dicyemid mesozoans from the Gulf of Mexico

*Dicyema hypercephalum* and *D. apalachiensis* are described from *Octopus joubini* from Apalachee Bay, off the Florida coast. Both new spp. have typically 14 peripheral cells.

- Gotto, R. V.** (1962) M  
62-02115  
*Ann. Mag. nat. Hist.*, 4 (45) : 541-4

*Enterocola megalova* sp. nov.: an ascidicolous copepod occurring in *Polyclinum aurantium* Milne Edwards

All 7 spp. of genus are parasitic copepods in alimentary canal of ascidians; this one is from Strangford Lough entrance, N. Ireland, March 1961.

- Palmer, G.** (1961) M  
62-02116  
*Ann. Mag. nat. Hist.*, 4 (45) : 545-51

New records of fishes from the Monte Bello Islands, Western Australia

Spp. list with notes, based on collection of 133 specimens under supervision of Surgeon Commander Wedd.

- M  
62-02117
- Morgans, J. F. C.** (1962)  
*Nature, Lond.*, 193 (4810) : 86-7  
Ecological aspects of demersal tropical fishes off East Africa
- Preliminary results of survey of North Kenya banks. It is suggested that the demersal fishes of the East African coastal current behave, typically, as a diffuse mixture of spp. spread across the banks to the limit set by the depths of the thermocline, but favouring especially the regions of irregular bottom topography; there seems to be a tendency to form loose-knit shoals and spp. show preference for shoaling with their own kind; most spp. tend to avoid the flat, level bottoms which are especially favoured by others. Basic pattern is affected by onset of sexual ripeness, which emphasizes tendency of catch fish to shoal with other fishes in general and with its own spp. in particular. Thus dense shoals are congregated, usually of several spp. mixed together.
- M  
62-02118
- Braekkan, O. R. & G. Boge** (1962)  
*Nature, Lond.*, 193 (4813) : 394-5  
Vitamin B<sub>6</sub> and the reproductive cycle of ovaries in cod, *Gadus morrhua*
- M  
62-02119
- Pilson, M. E. Q. & A. L. Kelly** (1962)  
*Science*, 135 (3498) : 104-5  
Composition of the milk from *Zalophus californianus*, the California sea lion
- Milk of *Z. californianus* is similar to that of other marine mammals. Chief protein is casein, which has a lower phosphorus content than bovine casein. Appears to be complete absence of lactose. Reference to Sivertsen, E. (1961) analyses of *Phoca* and *Cystophora* spp.
- M  
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- Ricker, K. E.** (1959)\*  
*Mus. Contr. Univ. B.C.*, (4)  
Fishes collected from the Revillagigedo Islands during the 1954-1958 cruises of the 'Marijean'
- M  
62-02121
- Moffett, A. W.** (1961)  
*Tech. Ser. Fla Bd Conserv.*, (36) : 35 p.  
Movements and growth of spotted seatrout, *Cynoscion nebulosus* (Cuvier), in West Florida
- Account of detailed tagging experiments to determine the movements and growth.
- M  
62-02122
- Jonsgård, Å.** (1962)  
*Norsk Hvalfangsttid.*, 51 (1) : 1-13  
On the species of dolphins found on the coast of northern Norway and in adjacent waters. *En No*
- Although from the literature, 4 spp. of dolphins, *Lagenorhynchus albirostris*, *L. acutus*, *Tursiops truncatus* and *Delphinus delphis*, appear to have been recorded from the waters of northern Norway, only the white-beaked dolphin, *L. albirostris*, has been conclusively identified, and this is probably the only commonly occurring sp. in these waters.

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- Brown, S. G.** (1962) M  
62-02123  
*Norsk Hvalfangsttid.*, 51 (1) : 13-6  
 A note on migration in fin whales. *En No*
- Details of nine recovered whales marked in the Antarctic incl. a migration chart.
- Konovalov, P. M., E. L. Markova & E. L. Binting** (Anon., M  
62-02124  
 Transl.) (1961)\*  
 Washington, D.C., 9 p.  
 Acclimatization of the Baltic herring in the Aral Sea
- En* 60-7074. Available from the Office of Technical Services, Washington, D.C.
- Yamanaka, I.** (1960) MG  
62-02125  
*Rep. Japan Sea Fish. Res. Lab.*, (6) : 1-16  
 (Some aspects of the population dynamics of sardine, *Sardinops melanosticta* T. & S., from the viewpoint of the availability and the reproduction curves).  
*Ni En*
- Ad 1954 Yamanaka, I. Effect of catching O-group fish. Stock recruitment relation—Ci 1954 Ricker. Estimates of M and q. Calculation of equilibrium yield; relation between larval abundance and subsequent year-class strength.
- Ali, M. A., P. Copes & W. R. Stevenson** (1961) MF  
62-02126  
*J. Fish. Res. Bd Can.*, 18 (2) : 259-72  
 Correlation of morphological and intra-ocular measurements in the Atlantic salmon (*Salmo salar*) yearling
- Correlation among various morphological measurements is of a higher order than correlation of various intra-ocular measurements. Latter is positive, but not high enough to serve as a useful predictive device.
- Herrmann, G.** (1961) MF  
62-02127  
*Allg. Fischwirtschaft Ztg.*, 13 (24) : 14-6  
 Die Aalwirtschaft in Schleswig-Holstein (The eel-economy in Schleswig-Holstein)
- Gras, R.** (1961) MF  
62-02128  
*Bull. Inst. franç. Afr. noire*, 23 (2) : 572-86  
 Liste des poissons du Bas-Dahomey faisant partie de la collection du Laboratoire d'Hydrobiologie du Service des Eaux, Forêts et Chasses du Dahomey (List of fishes of the lower Dahomey in the collection of the Hydrobiological Laboratory of the Water, Forests and Game Service of Dahomey)
- Taxonomic list with notes on occurrence, abundance and distribution.

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 62-02129  
*J. Mar. biol. Ass. India*, 2 (1) : 129-31  
 On the specific identity of a ribbonfish (family Trichiuridae) described by Hamilton (1822) from the River Ganges
- Trichiurus lepturus* Hamilton (nec Linnaeus) is relegated here to the synonymy of *Lepturacanthus savala* (Cuvier). Attention is also drawn to the occurrence of the 4 Indian spp. *Trichiurus lepturus*—of which *T. haumela* (Forsk.) is a synonym—*Lepturacanthus savala*, *Eupleurogrammus intermedius*, and *E. muticus* in the Gangetic estuary and along the Bombay coast.
- Rabanal, H. R.** (1961) MF  
 62-02130  
*Occ. Pap. Indo-Pacif. Fish. Coun.*, (61-8) : 5 p.  
 Status and progress of *Chanos* fishery in the Philippines
- Le Van Dang** (1961) MF  
 62-02131  
*Occ. Pap. Indo-Pacif. Fish. Coun.*, (61-9) : 6 p.  
 Present status of research and development in connection with the *Chanos* fisheries in Vietnam
- Ward, D.** (1960) MF  
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*Inl. Fish. adm. Rep., Calif.*, (60-19) : 24 p.  
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*Inl. Fish. adm. Rep., Calif.*, (61-1) : 19 p.  
 Annual report Nimbus Salmon and Steelhead Hatchery, fiscal year of 1958-59
- Nelson, W. C.** (1961) MF  
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*Progr. Fish-Cult.*, 23 (3) : 137  
 Comparison of jaw, cheek, dart, and spaghetti tags
- Rucker, R. R.** (1961) MF  
 62-02135  
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 The use of merthiolate on green eggs of the chinook salmon
- Describes effects of the chemical on green eggs of chinook salmon, *Oncorhynchus tshawytscha*.
- Chapman, D. W.** (1961) MF  
 62-02136  
 Thesis, Oregon State Univ., U.S., 227 p.  
 Factors determining production of coho salmon, *Oncorhynchus kisutch*, in three Oregon streams
- DA 22 (4) : 956.



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- Fontaine, M.** (1960) MF  
62-02137  
*Experientia*, 16 (10) : 433-8  
Quelques problèmes physiologiques posés par le *Salmo salar*. Intérêt de l'étude de la smoltification type de préparation au comportement migratoire (Some physiological problems posed by *Salmo salar*. Relation of the study of "smoltification" type to migratory behaviour). En
- Considers physiological problems raised by particularities of the physiological cycle about which he and fellow-workers have produced new data—especially those brought out by the physiological, normal fasting so particular to the adult S: the synchronic fasting of Mislin.
- Penczak, T.** (1961) MF  
62-02138  
*Nature, Lond.*, 192 (4803) : 673-4  
Serological relationships between the nine-spined and the three-spined stickleback
- Taxonomic comparisons of *Gasterosteus aculeatus* and *Pungitius pungitius* (*G. pungitius*). Specimens from Łódź, Poland.
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*Dokl. Akad. Nauk SSSR (En Transl.)*, 138 (1-6) : 385-7  
Effect of light on the development of pike-perch and roach spawn
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62-02140  
*Dokl. Akad. Nauk SSSR (En Transl.)*, 138 (1-6) : 388-91  
Effects of water of various salinities on the survival rates of the sperm, spawn and fry of the sturgeon
- En 62-00431.
- Chulitskaya, E. V.** (1961) MF  
62-02141  
*Dokl. Akad. Nauk SSSR (En Transl.)*, 138 (1-6) : 396-8  
Latent differentiation of the otic vesicle material in the common and stellated sturgeon
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- Examinations of nucleus preopticus of *Lampetra planeri* by chrome-haematoxylin method of Gomori and the aldehydefuchsin method of Cabe.
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- Incl. reference to natural production and cultivation of frogs, algae, fish and shellfish; and discusses obstacles to increase in food supplies.
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- Summarizes observations on about 200 skeletally abnormal *Coregonus* collected during investigations since 1947. Discusses such abnormalities also in *Leucichthys*, *Cyprinus* and *Poecilichthys*. Discusses environmental causes.
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 The impact of predation, especially by the tiger-fish (*Hydrocyon vittatus* Cast.) on African freshwater fishes

This fish nearly always swallows prey fish whole. Because of this impact of predation is upon fish less than 40 per cent of the predator's length. It is postulated that absolute number of fish and number of fish spp. which are small when adult, in an area inhabited by *H. vittatus*, and possibly also *Lates niloticus* subspp., is governed by amount of vegetal cover available throughout the year and that the spawning migrations of fishes are primarily undertaken in order to place the young in an environment where refuge from predators is available. View that presence of these predators has the effect of retarding speciation is supported.

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- Hasan, R. & S. Z. Qasim** (1961)  
*Proc. Indian Acad. Sci.*, 53B (5): 230-9  
Studies on fish metabolism—1. The effect of temperature on the heart rate
- Experiments with *Barbus*, *Mystus* and *Ophicephalus* spp.
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Studies on the Trematoda of British freshwater birds
- Literature concerned with helminthic fauna of Anseriformes briefly surveyed. Host parasite list, which incl. 9 new host records, the descriptions of 15 spp. collected 1956-58 and a key for the separation of the genera of the subfamily Notocotylineae Kossack, 1911, are given.
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- Description of development of *C. brevis* and of a sp. of which the adult is not yet known. All stages are parasitic on fishes of E and W tropical Africa—incl. *Labeo*, *Barbus*, *Synodontis*, *Amphibius*, *Garra*—and different hosts are employed by larvae and adults. Attachment is described and host transfer is discussed.
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*Progr. Fish-Cult.*, 23 (3) : 114-9  
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 Active predation of crayfish on fishes
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- Further study of the bacterium involved in the mortality of golden shiners, *Notemigonus crysoleucas*.
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Toxic effects of erythromycin thiocyanate on rainbow trout
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Thesis, Univ. of Pennsylvania, U.S., 105 p.  
Respiratory, circulatory and metabolic adjustments to prolonged diving in the American alligator, *Alligator mississippiensis*  
  
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Thesis, The Univ. of Wisconsin, U.S., 156 p.  
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DA 22 (4) : 1305. George and Corrine Lakes, two small northern Wisconsin lakes containing resident populations of perch and bass, were stocked with young *Esox masquinongy immaculatus* Garrard.
- F  
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- Boray, J. C. & D. F. McMichael** (1961)  
*Aust. J. Mar. Freshw. Res.*, 12 (2) : 150-63  
The identity of the Australian lymnaeid snail host of *Fasciola hepatica* L. and its response to environment  
  
Taxonomic literature on the Australian Lymnaeidae is reviewed, with reference to the names used for Australian snail groups. The 3 generic names based on Australian type spp. are all considered to be synonyms of *Lymnaea* Lamarck. Specific names are discussed and new synonymies given as a result of a comparison of type material, laboratory breeding experiments, and field observations. Only 1 sp. acts as intermediate host for *F. hepatica* L., in both Australia and New Zealand, its correct name is *Lymnaea tomentosa* (Pfeiffer 1855).

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*Fish. News Lett., Aust.*, 21 (1) : 19-22  
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- Galzigna, L.** (1961) F  
62-02189  
*R.C. Accad. Lincei*, 31 (1-2) : 92-5  
 Analisi cromatografica degli steroidi estratti da gonadi adulte di *Salmo irideus* e di *Cyprinus carpio* (Chromatographic analysis of steroids extracted from the mature gonads of *Salmo irideus* and *Cyprinus carpio*)  
 The hormones of teleosts studied correspond to the hormones of mammals.
- Albanese, M. P. & A. Bolognari** (1960) F  
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*Atti Soc. pelor.*, 6 (1) : 47-53  
 Ulteriori dati volumetrici sull'ipofisi dell'*Engraulis* del lago Verde di Oliveri (Further volumetric data on the hypophysis of *Engraulis* from the Green Lake of Oliveri)  
 Confirms a substantial difference between male and female, but gives no direct relation between the volume of the hypophysis and body size.



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62-02191  
*Science*, 134 (3492) : 1749-50  
 Oviparous hermaphroditic fish with internal self-fertilization

Adults of *Rivulus marmoratus* (Cyprinodontidae) oviposited solo, emitting eggs in various developmental stages. Progeny (F3) were obtained via a selfed great grandparent, grandparent, and parent.

**Lillevik, H. A. & C. L. Schloemer** (1961) F  
62-02192  
*Science*, 134 (3495) : 2042-3  
 Species differentiation in fish by electrophoretic analysis of skeletal muscle proteins

Extracts of muscle protein from 10 spp. of fresh-water sunfish were examined. Spp. of *Lepomis*, *Huro*, *Micropterus*, *Pomoxis*, *Chaenobryttus* from lakes and streams in Michigan.

**Azevedo, P.** (1961) F  
62-02193  
*Supl. agric.*, 7 (343) : 4  
 Truta arco-iris em aguas paulistas (The rainbow trout in waters of São Paulo)

TA 17 (1) j469. Account of study which reveals that only one fish sp., the trout, could be acclimatized. Preference given to the rainbow trout, *inter alia*, because it easily grows to weigh 2-3 kg, and the least exacting with regard to the oxygen content of river waters.

**Obgón, F.** (1961) F  
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*Méx. agric.*, 8 (85 : 47-52)  
 Los estanques piscícolas agrícolas (Fish ponds for farmers)

TA 17 (1) j224. Reports government's effort to convert natural water deposits of the country into ponds, producing some 30 or 40 million kg of fish annually. Gives directions for the construction of such fishponds, which have to fill a number of requirements as to depth, extension, water supply and drainage, flora, etc.

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*News Lett. int. Rice Comm.*, 10 (2) : 3-4  
 A note on cultivation of milk fish (*Chanos chanos*) in rice fields in Thailand  
 TA 17 (1) j225.

**Wright, M. L.** (1961) F  
62-02196  
*Rice J.*, 64 (9) : 8-9  
 Fish farming is good potential in Arkansas rice areas

TA 17 (1) j226. Reviews present production and discusses the potential future yield. Special reference is given to the activities of Fish Farming Experiment Station and a sub-station opened in July 1961.

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 Effect of lysergic acid diethylamide on the surfacing behaviour of large carp  
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- Bertmar, G.** (1962) F  
62-02199  
*Nature, Lond.*, 193 (4813) : 393-4  
 Homology of ear ossicles  
 Embryology of *Neoceratodus*. General study.
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*Proc. Canad. Fed. biol. Soc.*, 3 : 14-5  
 Pyruvate metabolism in kamloops trout, *Salmo gairdneri*, following exercise
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62-02201  
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 Étude du noyau préoptique de la perche (*Perca fluviatilis* L.) au microscope électronique (Electron microscope study of the optic nucleus of the perch, *Perca fluviatilis* L.)  
 Describes structure of the neurons and discusses neurosecretory activity and its relation with hypophyse.
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 Fish heart tissue changes in response to injury  
 En 62-00991. Experiments with *Misgurnus fossilis*.
- Lambou, V. W. & R. J. Muncy** (1961) G  
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 Atlanta, 27 p.  
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 General theory.

MISCELLANEOUS AND AUXILIARIES

MISCELLANEOUS AND AUXILIARIES

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*FAO Fish. Biol. tech. Pap.*, (10) Rev. 1 : 25 p.

A world list of experts concerned with the study of the biology of tunas and related species

NE 61-05142. Serially numbered list of names and addresses, indexed by country of residence, language facility, spp. and subject.

- Seshaiya, R. V.** (1960) M  
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*J. Mar. biol. Ass. India*, 2 (1) : 115-20  
Modern trends in marine biology

Talk delivered at the first general meeting of the Marine Biological Association of India on 20 Dec. 1959.

- New South Wales. Laws, Statutes, etc.** (1961) M  
62-02206  
*Govt Gaz. N.S.W.*, (107) : 2999

Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lake Illawarra, County of Camden—13 September 1961

Prohibits the taking of fish by the use of flathead-net as prescribed by regulation 23A, in the tidal waters and during the periods specified.

- Western Australia. Laws, Statutes, etc.** (1961) M  
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*Govt Gaz. W. Aust.*, (81) : 2775

Proclamation made under the fisheries act, 1905-1960, relative to the waters of the Broke Inlet—12 September 1961

Prohibits the taking of fish by fishing nets in the waters and for the periods specified during 1961-1965.

- Western Australia. Laws, Statutes, etc.** (1961) M  
62-02208  
*Govt Gaz. W. Aust.*, (81) : 2775-6

Proclamation made under the fisheries act, 1905-1960, relating to the waters of Oyster Harbour—12 September 1961

Prohibits the taking of fish by means of fishing nets in the waters and for the periods specified during 1961-1965.

- Belgium. Laws, Statutes, etc.** (1961) M  
62-02209  
*Monit. belge*, (281) : 8742

Loi du 28 juillet 1961 portant approbation de la convention internationale sur les pêcheries de l'Atlantique du nord-est et de l'annexe, signées à Londres le 24 janvier 1959 (Act approving the North-East Atlantic Fisheries Convention and annex, signed at London on 24 January 1959—28 July 1961)

Gives effect to the convention in respect of Belgium.

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M

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*Can. Gaz. (II), (19) : 1517-8*

SOR/61-416. Order in council P.C. 1961-1333 relative to the fishing vessel assistance regulations, made under the appropriation act No. 6, 1960—19 Sept. 1961

These regulations apply in respect of contributions for assistance in the construction of fishing vessels having a minimum length of 45 feet on the Atlantic coast. The contributions shall not exceed 250 dollars per ton, gross tonnage.

**Canada. Laws, Statutes, etc. (1961)**

M

62-02211

*Can. Gaz. (II), (19) : 1585-6*

DORS/61-416. Décret C.P. 1961-1333: règlement relatif à l'aide aux vaisseaux de pêche, en vertu de la loi des subsides N° 6, 1960—19 septembre 1961 (SOR/61-416. Order in council P.C. 1961-1333 relative to the fishing vessel assistance regulations, made under the appropriation act No. 6, 1960—19 Sept. 1961)

*Fr 62-02210.*

**Canada. Laws, Statutes, etc. (1961)**

M

62-02212

*Can. Gaz. (II), (19) : 1520*

SOR/61-418. Order in council P.C. 1961-1342 amending the Nova Scotia fishery regulations made under the fisheries act—21 September 1961

New description of contaminated area No. 51—Glace Bay.

**Canada. Laws, Statutes, etc. (1961)**

M

62-02213

*Can. Gaz. (II), (19) : 1588*

DORS/61-418. Décret C.P. 1961-1342 modifiant le règlement de pêche de la Nouvelle-Écosse selon la loi sur les pêcheries—21 septembre 1961 (SOR/61-418. Order in council P.C. 1961-1342 amending the Nova Scotia fishery regulations made under the fisheries act—21 September 1961)

*Fr 62-02212.*

**Canada. Laws, Statutes, etc. (1961)**

M

62-02214

*Can. Gaz. (II), (21) : 1654*

SOR/61-476. Shellfishing order pursuant to the New Brunswick fishery regulations made under the fisheries act—9 October 1961

Re-opens several shellfish areas for the taking of clams for the purpose of bait, food or canning.

M  
62-02215

**Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (21) : 1726

DORS/61-476. Avis sur la pêche aux coquillages, en vertu du règlement de pêche du Nouveau Brunswick selon la loi sur les pêcheries—9 octobre 1961 (SOR/61-476. Shellfishing order pursuant to the New Brunswick fishery regulations made under the fisheries act—9 October 1961)

*Fr* 62-02214.

M  
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**Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (21) : 1617

SOR/61-459. Order in council P.C. 1961-1489: fisheries products designated and prices prescribed, pursuant to the fisheries prices support act—19 October 1961

Concerns frozen filleted turbot and frozen headless dressed turbot.

M  
62-02217

**Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (21) : 1687

DORS/61-459. Décret C.P. 1961-1489: produits de la pêche désignés et prix prescrits en vertu de la loi sur le soutien des prix des produits de la pêche—19 octobre 1961 (SOR/61-459. Order in council 1961-1489: fisheries products designated and prices prescribed pursuant to the fisheries prices support act—19 October 1961)

*Fr* 62-02216.

M  
62-02218

**Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (22) : 1748

DORS/61-487. Avis sur la propagation du poisson dans la baie Malpèque, Ile du Prince Edouard, en vertu de la loi sur les pêcheries—23 octobre 1961 (SOR/61-487. Notice relating to the propagation of fish in Malpeque Bay, Prince Edward Island—23 October 1961)

*Fr* 62-02260.

M  
62-02219

**Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (22) : 1662-3

SOR/61-484. Order in council P.C. 1961-1569 amending the British Columbia fishery regulations made under the fisheries act—2 November 1961

Relative to trawl mesh size.

M  
62-02220

**Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (22) : 1734-5

DORS/61-484. Décret C.P. 1961-1569 modifiant le règlement de pêche de la Colombie Britannique en vertu de la loi sur les pêcheries—2 novembre 1961 (SOR/61-484. Order in council P.C. 1961-1569 amending the British Columbia fishery regulations made under the fisheries act—2 November 1961)

*Fr* 62-02219.

- M  
62-02221
- Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (22) : 1664  
SOR/61-485. Order in council P.C. 1961-1570 amending the fish inspection regulations made under the fish inspection act—2 November 1961

Concerns packing of summer mackerel.

- M  
62-02222
- Canada. Laws, Statutes, etc.** (1961)  
*Can. Gaz. (II)*, (22) : 1736  
DORS/61-485. Décret C.P. 1961-1570 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson—2 novembre 1961 (SOR/61-485. Order in council P.C. 1961-1570 amending the fish inspection regulations made under the fish inspection act—2 November 1961)

*Fr* 62-02221.

- M  
62-02223
- France. Laws, Statutes, etc.** (1961)  
*J. off. Répub. franç.*, (220) : 8624  
Arrêté du 11 septembre 1961 relatif à la fabrication de conserves de rascasses du nord ou sébastes (Order relating to the preparation of preserves of hog-fish of the nord, *Sebastes*—11 September 1961)

Adds *S. dactylopterus* and *marinus* to the list of fish which may be prepared in the form of preserves and pre-cooked dishes, established by the order of 9 May 1952.

- M  
62-02224
- France. Laws, Statutes, etc.** (1961)  
*J. off. Répub. franç.*, (230) : 8971-2  
Décret n° 61-1086 du 29 septembre 1961 relatif à l'extension du bénéfice des prestations familiales aux marins pêcheurs non salariés et aux inscrits maritimes embarqués au cabotage et à la navigation côtière dans les départements d'outre-mer (Decree No. 61-1086 extending the benefits of family allowances to non-salaried sea fishermen and to the crews of vessels engaged in coastal trade and navigation in the overseas departments—29 September 1961)

- M  
62-02225
- France. Laws, Statutes, etc.** (1961)  
*J. off. Répub. franç.*, (230) : 8972  
Arrêté du 29 septembre 1961 relatif aux cotisations dues par les marins pêcheurs et les inscrits maritimes dans les départements d'outre-mer (Order relating to contributions due by sea fishermen and crews in the overseas departments—29 September 1961)

MISCELLANEOUS AND AUXILIARIES

**Algeria. Laws, Statutes, etc.** (1961) M  
62-02226  
*Rec. Acts adm., Algeria*, (86) : 2634

Additif à la circulaire n° 217 EI/A du 6 mars 1961 étendant son application aux artisans pêcheurs (Addendum to circular 217 EI/A of 6 March 1961 extending its application to small fishermen)

Specifies regions and conditions. Loans may be granted for: 1. adoption of new techniques, especially of the slip nets; 2. increase of the fishing potential of the Algerian fishing fleet.

**Guatemala. Laws, Statutes, etc.** (1961) M  
62-02227  
*Guatemalteco*, (32) : 345-6

Decreto número 1470 promoviendo la explotación en forma racional de los recursos pesqueros del país—23 de Junio de 1961 (Legislative decree No. 1470 intended to provide for the rational exploitation of the fishing resources of the country—23 June 1961)

Establishes in detail a licensing system.

**Kerala. Laws, Statutes, etc.** (1961) M  
62-02228  
*Kerala Gaz.*, (42) : 2414

G.O. (MS) No. 1050/61 Agri. Order relative to the grant of loans to fishermen cooperative societies—9 October 1961

In respect of penal interest on overdue instalments of loans.

**Mexico. Laws, Statutes, etc.** (1961) M  
62-02229  
*Diario ofic. Méx.*, (50) : 2

Acuerdo que dispone que la importación de harinas de animales marinos, queda sujeta a previo permiso de la secretaría de industria y Comercio—15 de junio de 1961 (Order rendering the import of fish meals subject to prior licence of the secretariat of industry and trade—15 June 1961)

**Mexico. Laws, Statutes, etc.** (1961) M  
62-02230  
*Diario ofic. Méx.*, (49) : 3-4

Acuerdo que dispone que la importación de peces, crustáceos, mariscos y moluscos vivos, frescos o refrigerados, queda sujeta a previo permiso de la secretaría de industria y comercio—16 de junio de 1961 (Order rendering the import of live fresh or refrigerated fish, crustaceans, cockles and other shellfish subject to prior licence of the secretariat of industry and trade—16 June 1961)

**Morocco. Laws, Statutes, etc.** (1961) M  
62-02231  
*Bull. off. Emp. chérif.*, (2550) : 1288-90, 1310-2

Accord commercial entre le Royaume du Maroc et la République Démocratique Allemande (Trade agreement between the Kingdom of Morocco and the German Democratic Republic)

Prorogation for a further year of the trade agreement between the Kingdom of Morocco and the German Democratic Republic, until 7 August 1962. Exports from Morocco incl. fish meal and imports incl. fishing equipment.

M

**Morocco. Laws, Statutes, etc. (1961)**

62-02232

*Bull. off. Emp. chérif.*, (2550) : 1294-6, 1316-8

Accord commercial entre le Royaume du Maroc et le Royaume du Danemark—26 juillet 1961 (Trade agreement between the Kingdom of Morocco and Denmark—26 July 1961)

Exports incl. canned sardines.

M

**Morocco. Laws, Statutes, etc. (1961)**

62-02233

*Bull. off. Emp. chérif.*, (2551) : 1329, 1342

Arrêté du ministre du commerce, de l'industrie, des mines, de l'artisanat et de la marine marchande n° 476-61 du 26 juillet 1961 rendant applicables dans l'ancienne zone de protectorat espagnol et dans la province de Tanger la législation et la réglementation relatives à l'institution de taxes spéciales sur le poisson dit "industriel" (Order No. 476-61 rendering applicable to the zone formerly under Spanish protectorate and the province of Tangiers, the legislation and regulations relative to the establishment of special taxes on "industrial" fish—26 July 1961)

M

**Morocco. Laws, Statutes, etc. (1961)**

62-02234

*Bull. off. Emp. chérif.*, (2556) : 1540, 1553

Arrêté interministériel N° 553-61 du 25 septembre 1961 modifiant l'arrêté interministériel du 26 juin 1956 relatif au régime du poisson débarqué dans les ports du Maroc (Joint ministerial order No. 553-61, amending the joint ministerial order of 26 June 1956 relating to the status of fish unloaded in Moroccan ports—25 September 1961)

Customs exemptions in respect of fish taken under certain circumstances.

M

**Peru. Laws, Statutes, etc. (1961)**

62-02235

*Peruano*, (6086) : 1

Decreto supremo N° 14 por el que se prohíbe la instalación de plantas de harina de pescado sin el requisito previo de la resolución autoritativa—19 julio de 1961 (Supreme decree No. 14 prohibiting the establishment of fish meal plants without prior authorization—19 July 1961)

A permit must be issued in each case by the Ministry of Agriculture.

M

**Peru. Laws, Statutes, etc. (1961)**

62-02236

*Peruano*, (6082) : 1

Resolución ministerial N° 710 fijando plazo improrrogable a las fábricas de harina de pescado para instalar equipos—22 de julio de 1961 (Ministerial resolution No. 710 fixing an unextendible time limit for fish meal plants to install equipment—22 July 1961)

In respect of temperature registration equipment.



M  
62-02237

**Peru. Laws, Statutes, etc. (1961)**  
*Peruano*, (6104) : 1

Decreto supremo N° 24 aprobando el reglamento sanitario para transporte de materia prima de las fábricas de harina de pescado—22 de agosto de 1961 (Supreme decree No. 24 approving the sanitary regulations for the transport of raw materials to fish meal plants—22 August 1961)

Extensive regulations covering all aspects of the transport of raw materials.

M  
62-02238

**Sweden. Laws, Statutes, etc. (1961)**  
*Svensk. Förfsaml.*, (483) : 1227-8

Kungl. Maj:ts kungörelse Nr 483 om undantag från förbudet mot trålfiske vid rikets östra kust—15 september 1961 (Royal order No. 483 providing for exceptions to the prohibition of trawl fishing on the east coast of the kingdom—16 September 1961)

Areas concerned are described.

M  
62-02239

**U.K. Laws, Statutes, etc. (1961)**  
*Statut. Instrum. U.K.*, (342) : 10 p.

The Anglo-Norwegian sea fisheries order, 1961, made under the sea fisheries act, 1883—27 February 1961

Enables the provisions of the fishery agreement of 17 November 1960 between the UK and Norway—regulating sea fishing by vessels registered in their respective territories in waters off the coast of Norway—to be applied to vessels registered in the UK.

M  
62-02240

**Yugoslavia. Laws, Statutes, etc. (1961)**  
*Služb. List*, (44) : 921-2

Pravilnik o izmjenama i dopunama pravilnika o uredenju industrijskih klaonica i o organizaciji rada u njima—4. listopada 1961 (Regulations of the secretariat for agriculture and forests amending and supplementing regulations concerning the organization of industrial slaughterhouses and the organization of labour therein—4 October 1961)

*Inter alia*, adds new title concerning industrial plants for the treatment and the manufacture of fish preserves.

M  
62-02241

**Yugoslavia. Laws, Statutes, etc. (1961)**  
*Služb. List*, (44) : 918

Odluku o izmjenama odluke o paušalnim osnovima za određivanje naknade umjesto osobnog dohotka za osiguranike u ribarstvu—31. listopada 1961 (Resolution of the federal executive council amending the resolution concerning basic levels used for determining allocations replacing individual revenue of insured fishermen—31 October 1961)

Amends resolution S.L. No. 45, 1958; allocations replace salary during period when fisherman is unable to work.

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- Yugoslavia. Laws, Statutes, etc.** (1961) M  
62-02242  
*Služb. List*, (45) : 949  
 Naredbu o dopunama naredbe o podnoženju prijava o izvozu i uvozu robe—28. listopada 1961 (Ordinance of the secretariat of state for finance, supplementing the ordinance concerning the submission of declarations for the export and import of goods—28 October 1961)
- Supplements ordinance S.L. 35 of 1961 in respect of fish meal, etc.
- Harding, J. P. & N. Tebble** (1962) M  
62-02243  
*Nature, Lond.*, 193 (4810) : 24-6  
 Speciation in the sea
- Do 61-154me.
- Anon.** (1961)\* M  
62-02244  
 Washington, D.C., 1 vol.  
 General science and miscellaneous including meteorology, oceanography, biology, astrobiology, botany, zoology, medical science, aeromedicine, education, fuels, fuel products, and power, No. 5
- Series 6 of English abstr. of selected articles from Soviet Bloc and Mainland China technical journals. Available from the Office of Technical Services, Washington, D.C. Descriptors: meteorology, oceanography, biology.
- Royce, W. F.** (1960) MF  
62-02245  
*Circ. Fish. Res. Inst. Univ. Wash.*, (123) : 4 p.  
 Fishery regulation in Alaska salmon management
- Discusses role of regulations in management.
- U.S. National Science Foundation. Office of Science Information Service** (1961) MF  
62-02246  
*Curr. Res. sci. Doc.*, (8) : 57-8  
 University of Rhode Island—Aquatic Sciences Information Retrieval Center, Taft Hall, Kingston, R.I.
- Statement provided for the National Science Foundation report, "Current research and development in scientific documentation".
- Gould, S. H.** (Ed.) (1961) MF  
62-02247  
 Washington, D.C., AAAS, 871 p.  
 Sciences in communist China
- Do 60-191me. Contains 62-01816, 62-02248 and 62-02249, and also author, geographic and subject indexes.

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MF  
62-02248

**Cheng, T.-H.** (1961)  
*In* 62-02247 : 197-226  
Zoological sciences since 1949

Incl. section dealing with hydrobiological research, especially in respect to fisheries problems.

MF  
62-02249

**Wiens, H. J.** (1961)  
*In* 62-02247 : 411-81  
Development of geographical science, 1949-60

Incl. sections of hydrology, oceanography and limnology.

MF  
62-02250

**Anon.** (1962)  
*Fish. News int.*, 1 (2) : 21-6  
New thinking required in south east Asia

MF  
62-02251

**New South Wales. Laws, Statutes, etc.** (1961)  
*Govt Gaz. N.S.W.*, (107) : 3000  
Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to certain portions of waters of Port Jackson, Parramatta River, Lane Cove River and Duck River, County of Cumberland—13 September 1961

Prohibits the taking of fish, incl. prawns, by the methods set forth in the schedules thereto and for the periods specified.

MF  
62-02252

**Tasmania, Laws, Statutes, etc.** (1961)  
*Tasm. Govt. Gaz* (13) : 1593  
Proclamation, made under the water pollution act 1961—3 October 1961  
The said act shall enter into force on 4 October 1961.

MF  
62-02253

**Brazil. Laws, Statutes, etc.** (1961)  
*Diario ofic.*, *Rio de J.*, Sect. 1, Part 1, (144) : 5849-51  
Decreto N° 50.872 de 28 Junho de 1961: cria o conselho do desenvolvimento da pesca e da outras providencias (Decree No. 50.872 establishing a fisheries development board and making other provisions—28 June 1961)

The functions of the new fisheries development board are described. The board shall study and propose national policy measures in fisheries, prepare a long-term fisheries plan, prepare training programmes for experts and technical personnel, promote means of technical and financial assistance to new industries, etc.

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- MF  
62-02254
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II)*, (19) : 1521  
 SOR/61-419. Order in council P.C. 1961-1343 amending the New Brunswick fishery regulations made under the fisheries act—21 September 1961

Authorizes angling for salmon in the prescribed waters until 15 October.

- MF  
62-02255
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II)*, (19) : 1589  
 DORS/61-419. Décret C.P. 1961-1343 modifiant le règlement de pêche du Nouveau Brunswick en vertu de la loi sur les pêcheries—21 septembre 1961 (SOR/61-419. Order in council P.C. 1961-1343 amending the New Brunswick fishery regulations made under the fisheries act—21 September 1961)

*Fr* 62-02254.

- MF  
62-02256
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II)*, (19) : 1522  
 SOR/61-420. Order in council P.C. 1961-1344 relative to the British Columbia fishery regulations, on salmon fishing in portion of Fraser River, made under the fisheries act—21 September 1961

During 1961, salmon may be fished for, caught or killed by means of nets after the 15th day of September in that portion of the Fraser River between New Westminster Bridge and Mission Bridge.

- MF  
62-02257
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II)*, (19) : 1590  
 DORS/61-420. Décret C.P. 1961-1344 relatif à la pêche du saumons dans une partie du fleuve Fraser, en vertu du règlement de pêche de la Colombie-Britannique, selon la loi sur les pêcheries—21 septembre 1961 (SOR/61-420. Order in council P.C. 1961-1344 relative to the British Columbia fishery regulations, on salmon fishing in portion of Fraser River, made under the fisheries act—21 September 1961)

*Fr* 62-02256.

- MF  
62-02258
- Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II)*, (21) : 1592  
 SOR/61-456. Order in council P.C. 1961-1471 amending the Newfoundland fishery regulations made under the fisheries act—17 October 1961

Adds a description of Bluff Head Cove and Ragged Point Area where salmon fishery shall be subject to control.

MISCELLANEOUS AND AUXILIARIES

MF  
62-02259

**Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II), (21) : 1662*

DORS/61-456. Décret C.P. 1961-1471 modifiant le règlement de pêche de Terre-Neuve selon la loi sur les pêcheries—17 octobre 1961 (SOR/61-456. Order in council P.C. 1961-1471 amending the Newfoundland fishery regulations made under the fisheries act—17 October 1961)

*Fr* 62-02258.

MF  
62-02260

**Canada. Laws, Statutes, etc. (1961)**  
*Can. Gaz. (II), (22) : 1675*

SOR/61-487. Notice relating to the propagation of fish in Malpeque Bay, Prince Edward Island—23 October 1961

Authorizes fishing of oysters from 1 Oct. to 25 Nov. 1961, in the described portion of Bideford River.

MF  
62-02261

**Newfoundland. Laws, Statutes, etc. (1961)**  
*Statut. Newfoundland, 1961 : 105*

The wild life (amendment) act, 1961: an act further to amend the wild life act—13 March 1961

The amendment relates to fishing licences.

MF  
62-02262

**Newfoundland. Laws, Statutes, etc. (1961)**  
*Statut. Newfoundland, 1961 : 134*

The loan act, 1961: an act to authorize the raising of a sum of money by way of loan on the credit of the province—13 March 1961

Power to raise loan not exceeding 10 million dollars, *inter alia* for the development of farming and fisheries.

MF  
62-02263

**Quebec. Laws, Statutes, etc. (1961)**  
*Statut. Quebec, 9-10, Eliz. II, 1960-61 : 375*

Loi modifiant la loi de la pêche—25 mai 1961 (An act to amend the Quebec fisheries act—25 May 1961)

Miscellaneous amendments regarding definitions, powers of the Minister of Game and Fisheries, and penalties.

MF  
62-02264

**Quebec. Laws, Statutes, etc. (1961)**  
*Statut. Quebec, 9-10, Eliz. II, 1960-61 : 419*

Loi modifiant la loi du ministère des pêcheries—25 mai 1961 (An act to amend the fisheries department act—25 May 1961)

Concerns mainly loans and advances which the Minister of Fisheries is authorized to make to fishermen or to societies trading in fish.

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- Ireland. Laws, Statutes, etc.** (1961) MF  
62-02265  
*Iris Oifigiúil*, (77) : 905

Tralee Bay oysters bye-laws, No. 506, 1961 made under the fisheries (consolidation) act, 1959—18 Sept. 1961

Revoke and replace the Tralee Bay oysters bye-law, No. 380, 1926, and other provisions. The new bye-laws govern fishing for, and trade in, oysters from the Tralee Bay oyster beds.

- Ireland. Laws, Statutes, etc.** (1961) MF  
62-02266  
*Iris Oifigiúil*, (77) : 915

Tralee Bay oysters close season bye-law. No. C.S. 109, 1961 made under the fisheries (consolidation) act, 1959—18 Sept. 1961

Replaces bye-law of 1926 and establishes the close season from 1 March to 30 September in each year.

- Ireland. Laws, Statutes, etc.** (1961) MF  
62-02267  
*Iris Oifigiúil*, (88) : 1043

Clew Bay oyster bye-law, No. 507, 1961 made under the fisheries (consolidation) act, 1959—26 October 1961

Establishes a closed season until 30 September 1964.

- Larkin, P. A.** (1959)\* MF  
62-02268  
*Trans. B.C. nat. Resour. Conf.*, 12 : 89-93  
Progress in conservation

- New South Wales. Laws, Statutes, etc.** (1961) F  
62-02269  
*Govt Gaz. N.S.W.*, (109) : 3093

Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to certain portions of waters of Murrumbidgee River at Tantangara Reservoir, Counties of Wallace and Cowley—20 September 1961

Amends the proclamation of 27 November 1957 relative to the use of spinners behind power boats.

- Canada. Laws, Statutes, etc.** (1961) F  
62-02270  
*Can. Gaz. (II)*, (19) : 1538

SOR/61-423. Order in council P.C. 1961-1397 amending the Quebec fishery regulations, made under the fisheries act—28 September 1961

For the year 1961 only, trout of any kind may be fished for, caught or killed up to and incl. the first day of October.

**Canada. Laws, Statutes, etc. (1961)** F  
62-02271  
*Can. Gaz. (II), (19) : 1606*

DORS/61-423. Décret C.P. 1961-1397 modifiant le règlement de pêche du Québec en vertu de la loi sur les pêcheries—28 septembre 1961 (SOR/61-423. Order in council P.C. 1961-1397, amending the Quebec fishery regulations, made under the fisheries act—28 September 1961)

*Fr* 62-02270.

**Federation of Malaya. Laws, Statutes, etc. (1961)** F  
62-02272  
*Fed. Malaya Govt Gaz., (19) : 123-8*

Act of parliament No. 32 of 1961. Tropical Fish Culture Research Institute act, 1961: an act to provide for the establishment of the Tropical Fish Culture Research Institute at Batu Berendam in the State of Malacca, for the incorporation of the board of management thereof and for matters incidental thereto—21 Sept. 1961

The board shall review and consider annually a general programme of the research or other activities to be conducted by the Institute.

**Nyasaland. Laws, Statutes, etc. (1961)** F  
62-02273  
*Nyasaland Govt Gaz., (62) : 356*

Government notice No. 188: the fishing (ring nets) (temporary provisions) rules, 1961 made under the fisheries ordinance (cap. 139)—26 September 1961

Prohibits fishing with ring nets, in the specified waters (Lake Nyasa), during November and December 1961.

**U.S. Laws, Statutes, etc. (1961)** F  
62-02274  
*Publ. Laws U.S., 87-328, 87th Congr., H.J. Res. 225, 27 Sept. 1961, 30 p.*

Joint resolution to create a regional agency by intergovernmental compact for the planning, conservation, utilization, development, management, and control of the water and related natural resources of the Delaware River Basin, for the improvement of navigation, reduction of flood damage, regulation of water quality, control of pollution, development of water supply, hydroelectric energy, fish and wildlife habitat, and public recreational facilities and other purposes, and defining the functions, powers, and duties of such agency—27 September 1961

The states concerned are Delaware, New Jersey, New York and Pennsylvania.

**Knöpp, H. (1960)** F  
62-02275  
*Dtsch. gewässerkundl. Mitt., 4 : 112-3*

Argument over the "best process" of biological water analysis

WPA 35 (2) 271. Discusses the importance of developing standard processes to simplify the presentation and comparison of results of biological examination of water.

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- G  
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*Biometrics*, 17 (2) : 220-8  
A note on some growth patterns in a simple theoretical organism  
  
Growth equations for simple organism proposed by Hinshelwood, and consisting of 2 linked autocatalytic enzymes, are shown to produce a linear system under certain conditions. Solution gives form of lag in growth following (i) decay of one enzyme and/or the intermediate and (ii) changes in the values of the parameters such as might be brought about by drug action. It will rarely be possible to deduce from shape of a growth curve the sort of mechanism likely to have produced it. Examples of the types of curves produced are given, and their resemblance to actual growth curves discussed. The production of identical curves by several distinct mechanisms in the model is pointed out.
- G  
62-02280
- Williams, W. T.** (1961)  
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- G  
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- Jeffers, J. N. R.** (1961)  
*Biometrics* 17 (2) : 331-2  
Data processing in biological research  
  
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62-02282
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- Healy, M. J. R.** (1961) G  
*Biometrics*, 17 (2) : 333 62-02283  
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 Abstr. only.
- Reverberi, G.** (1961) G  
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 Do 61-059me and 61-201me.
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 Population effects of natural selection  
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Un an de fonctionnement du C.E.R.B.O.M. (One year of activities of the C.E.R.B.O.M.)

Report on activities, equipment and facilities, associated institutions and services, projects of work in the fields of marine biology and oceanography applied to medical and public hygiene problems.

- Beklemishev, K. V.** (Slessers, M., Transl.) (1961) M  
62-02289  
Washington, D.C., 23 p.  
Sound scattering layers and the vertical distribution of zooplankton and fish in the sea

*En* 1956, Beklemishev, K. V. Available from the Office of Technical Services, Washington, D.C. The vertical diurnal migration of zooplankton is discussed in conjunction with the migration of predators following the plankton and the displacement of sound scattering layer conditioned by the migrations.

- U.S.S.R. Akademiia Nauk. Institut Okeanologii** (1959) M  
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BA 36 (24) 83347.

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62-02291  
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*Int. hydrogr. Bull.*, (9) : 295-318

Co 62-01716.

- Anon.** (1961) M  
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*Endeavour*, 20 (80) : 175-6  
 An international council of sciences

Note on ICSU and its activities, incl. SCOR.

- IHB** (1961) M  
62-02295  
*Int. hydrogr. Bull.*, (7) : 232-50

Co 62-01716.

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62-02297  
*Rep. NRL Progr., U.S.*, July : 45  
 Naval sound recording

Study initiated to determine causes of drop-outs in magnetic recording systems.

- Furnestin, J. (Ed.)** (1961) M  
62-02298  
*Rapp. Comm. int. Mer Médit.*, 16 (1) : 21 p.

No 60-043me; list of participants and officers of the Commission and its committees; Secretary General's report and speeches of welcome, etc.; texts of resolutions.

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**Cuculić, N.** (1960)

*Morsk. Ribarst.*, 12 (8) : 129-31

Savjetovanje o perspektivnom planu razvoja morskog ribarstva Jugoslavije održano u Puli 17.VI.1960 godine (Congress on the plan for future development of the Yugoslav sea fisheries, held in Pulat the 17.6.1960)

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**Zej, M.** (1961)

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MG

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**France. Service Hydrographique de la Marine** (1960)

Paris, Imprimerie Nationale, 242 p.

Catalogue des cartes et ouvrages qui composent l'hydrographie française (Catalogue of charts, plans and studies forming the French hydrography)

Complete list of all documentation available at the Navy Hydrographic Office until 1 Jan. 1960; prices and conditions of sale.

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**Thomas, W. L., Jr.** (1962)

*Science*, 135 (3499) : 220-8

Pacific science congress

No 60-248me.

MF

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*Wis. Conserv. Bull.*, 25 (7) : 29-32

Portable pump useful in conservation

Uses include: cleaning ditches; Cleaning and deepening small streams; Deepening sand beaches and cleaning out silts; Marsh habitat improvement work; Cleaning out trout streams.

MF

62-02304

**International Botanical Congress, 9th, Montreal, August 19-29, 1959** (1959)

*Proc. int. bot. Congr.*, 9 (1) : 221 p.

Program

Detailed program of meeting, with names of authors and titles of contributions, by subjects and alphabetically.

MF

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**IPFC** (1961)

*Proc. Indo-Pacif. Fish. Coun.*, 9th Sess., Sect. 1 : 299 p.

No 60-196me. Report of the executive committee; review of the council's work up to commencement of the session; reports of the technical committees, and panels' recommendations; list of delegates, observers, nominations for intersessional period, documents; text of amended agreement and rules of procedure.

**Panse, V. G. & K. V. R. Sastry** (1960)MF  
62-02306

New Delhi, 153 p.

Report on FAO-IPFC training centre in fishery statistics held at Bombay, India (13th February-30th April 1959)

Direction and administration of the centre; participants; instructors; training programme and curriculum; library, documentation and equipment; accommodation; social activities. Appendices incl.: list of participants; list of instructors; weekly-time-table of the programme followed at the centre; guide memorandum on the background material to be brought by the participants for preparation of seminar papers; report on the recommendations for improvement of fishery statistics in the Indo-Pacific region made by the working groups of participants; seminar papers on the fishery background and status of fishery statistics in the participating countries and Indian States; Report on the field surveys conducted by the participants in the Bombay suburban district; report on the field trip to Kerala State; List of technical documents supplied to the participants.

**International Conference on Science & World Affairs, 7th,  
Stowe, Vermont, USA, Sept. 5-9, 1961** (1961)MF  
62-02307

209 p.

Proceedings of the seventh International Conference on Science and World Affairs: International cooperation in pure and applied science, Stowe, Vermont, U.S.A.—September 5-9, 1961

Pr 61-244me, with list of participants, addresses of welcome and introduction, reports of working groups and sub-committees, resolutions, and texts of presented papers, incl. 62-02842, 2350, 2855, 2838, 2843. Resolutions on "cooperation in earth sciences" refer to surveys of ocean floor, waters, and life, environmental forecasting, resources of ocean and fresh waters; on "cooperation in life sciences" refer to food resources of waters, environmental modification and conservation. Resolutions also on assistance of developing nations, exchange of scientists and information.

**Nikol'skii, G. V.** (Lengy, J. I. & Z. Krauthamer, Transl.) (1961)MF  
62-02308Jerusalem, Israel Program for Scientific Translations, PST Cat. No. 233 : 475 p.  
Special ichthyology

*En* 1954 Nikol'skii, G. V. Available from the Office of Technical Services, Washington, D.C. Textbook for systematic ichthyology, based on series of lectures given by the author at the University of Moscow. Discusses in detail the classification of fish, evolution of the individual groups, their distribution and living habits. The fundamental biological data presented pertain to commercial fishes of USSR but also includes data on important fish groups of other zoogeographical regions. In the introduction briefly discusses the general theory of fishing with special reference to USSR fishing industry. Gives detailed ill. description of spp., genera, families, and orders of living fish. Incl. several fossil groups to give a better picture of fish groups in its entirety.

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**UNESCO (1961)** MF  
 UNESCO/NS/174, 9 p. 62-02309  
 Report of the eighth session of the International Advisory Committee on research in the natural sciences programme of Unesco, New Delhi, 16-20 October 1961

No 61-245me.

**UNESCO (1961)** MF  
 UNESCO/NS/174, 9 p. 62-02310

Rapport sur la huitième session du Comité Consultatif International de la recherche dans le programme des sciences exactes et naturelles de l'Unesco, New Delhi, 16-20 octobre 1961 (Report on the eighth session of the International Advisory Committee on research in the natural sciences programme of Unesco, New Delhi, 16-20 October 1961)

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**California. Department of Fish & Game (1961)** MF  
*Bienn. Rep. Calif. Dep. Fish*, (46) : 78 p. 62-02311

Incl. sections on water projects, inland fisheries, salmon and steelhead trout, marine resources. Appendices incl. statistics of landings and shipments by spp., lists of projects, tagging and rearing, plantings.

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**Australia. CSIRO (1961)** MF  
*Rep. sci. Res. Org., Canberra*, 13 (1960-61) : 150 p. 62-02313

Contains summaries of advances in various research fields, lists of staff, committees and of publications of divisions, incl. that of fisheries and oceanography.

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*Inform. Fischw. Ausl.*, 11 (8) : 49 p. 62-02314

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**Arizona. Game & Fish Department (1961)\*** F  
*Ariz. Wildl. Views*, 8 (1) : 1-35 62-02315  
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62-02316*Rep. Freshw. biol. Ass.*, (29) : 88 p.

Twenty-ninth annual report for the year ended 31 March 1961

Members, officers, council and staff accounts of the FBA; reports of the council and of the director on research activities; list of publications; contains list of limnological papers published in the British Isles in 1960, arranged by subjects, and, within these, by authors.

**Malacca. Tropical Fish Culture Research Institute** (1960?)F  
62-02317*Rep. trop. Fish Cult. Res. Inst. Malacca*, 1959-60 : 28 p.

Gives summary of station and research programme incl. fish stocks, *Tilapia mossambica* hybrid, Chinese grass carp, *Catla catla*, genetics, fertilizer, trials, slaked lime trials, living space experiments, botanical, zoological and chemical studies.

**Stoianov, St.** (1961)F  
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Rezultati ot khidrologichnite, khidrobiologichnite i ikhtiologichnite izledvaniia, provedeni v Bulgariia prez perioda 1954-1959 g. (Results of hydrological, hydrobiological and ichthyological research carried out in Bulgaria in the period 1954-1959)

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Scope of the research on hand and programmes in new fields; informations on internal organization and activities of eight divisions: chemistry; physics, biology; hydrology; plant process; information; workshop services; administration; staff and facilities for work.

**Cox, R. A. et al.** (1962)M  
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Ci 60-318me. World wide samples studied for two years in relation to conductivity method of salinity estimation.

**Wisely, B.** (1962)M  
62-02321*Nature, Lond.*, 193 (4815) : 543-4

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Experiments at Cronulla, N.S.W., with *Watersipora cucullata* and vinylite-cuprous oxide paint.



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 Sur l'invasion de la baie de Villefranche sur Mer en juin 1961 par *Chattonella subsalsa* Biecheler (On the invasion of the Bay of Villefranche-sur-Mer by *Chattonella subsalsa* Biecheler, in June 1961)

Reports a phenomenon of "red tide" with comments on the possible harmful effects to human beings.

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- Dreyfuss, M. R.** (1962)  
*Cah. C.E.R.B.O.M.*, (1) : 14-5  
 Note biologique à propos des eaux rouges (Biological note on "red tide" phenomenon)

Short information on the sea conditions observed during this phenomenon, in the area of Antibes, summer 1961.

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- Nesteroff, W. D.** (1962)  
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 Les courants de turbidité (Turbidity currents)

Short article explaining the formation of such currents.

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- Betin, V. V. & Yu. V. Preobrazhenskii** (Slessers, M., Transl.)  
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 Fluctuations of iciness in the Baltic Sea and the Danish Straits

*En* 60-8232. Available from the Office of Technical Services, Washington, D.C. On the basis of secular series of observations on ice in the Baltic Sea and Danish Straits from 1529 to 1958, the trend of long-period fluctuations of iciness in the areas has been determined. Trend made possible the forecasting of the march of iciness in the Baltic Sea and Danish Straits for the following decades.

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*En* 60-2309. Available from the Office of Technical Services, Washington, D.C. Perspective angle instrument used for determining the location of aircraft, its direction and speed, as well as the observed ice objects, their size, contours and concentration is described.

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Occurrence and origin of clay pebbles on the east coast of Johore, Malaya

Description of three zones of clay pebbles on beaches.

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Examination of pleistocene and recent carbonate sediments from Florida, Bahama Banks, south and east China Seas, and the Persian Gulf. Quantitative mineralogical determinations were made by means of X-ray diffraction and fluorescence, and by emission spectrography.

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Standing crop and drift of stream bottom organisms

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Study of Illinois pond and mortality of *Lepomis*, *Micropterus*, *Cyprinus*, *Esox* etc. in relation to cover by *Lemna* and *Wolffia*.

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The disappearance of *Cyathura polita* from the Ashepoo River, South Carolina, after hurricane "Gracie" in 1959

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 Statement by the International Water Supply Association  
 Do 60-213me. A resumé of the work of the association, with respect to water pollution.
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 Geneva, 238 p. 62-02891  
 Documents submitted to the conference—Vol. 1  
 Do 60-213me. Contains a report on the conference, held under joint auspices of ECE, the Regional Office for Europe of WHO, FAO and IAEA, a list of participants and 46 papers dealing with urgent water pollution problems. Contains 62-03000 to 62-03010; 62-03058 to 62-03062; 62-02890.
- de Baenst, N. (1961)** MF  
 Water Poll./Conf./22, 253–62 62-02892  
 National control programmes—Centralized system applied in Belgium  
 Do 60-213me. With respect to water pollution control, describes the centralized type of governmental control used in Belgium. Gives history of its development and present status.
- Lovett, M. (1961)** MF  
 Water Poll./Conf./2, 269–75 62-02893  
 River basin authorities in Britain  
 Do 60-213me. Describes the functions of the river boards and similar bodies in England and Wales.

- Nagibina, T.** (1961) MF  
62-02894  
Water Poll./Conf./13, 293-314  
Organization of water pollution control measures in the USSR and eastern European countries

Do 60-213me. Describes these with reference to USSR, Czechoslovakia, Poland, Bulgaria, Hungary and Romania.

- ECE. Secretariat** (1961) MF  
62-02895  
Water Poll./Conf./17, 570-3  
Possibilities for the promotion of international exchanges of information in the field of water pollution control in Europe

Do 60-213me. Enumerates these possibilities incl. exchange of documentation advisory services by experts, visits of specialists and direct contact between organizations and meetings. Suggests the role that ECE might be able to play in this program and its collaboration with the secretariats of FAO, IAEA and the Regional Office for Europe of WHO.

- ECE. Secretariat** (1961) MF  
62-02896  
Water Poll./Conf./P. 9, 574-5  
Statement submitted by the Government of the Netherlands

Do 60-213me. Suggests that ECE in consultation with FAO, WHO and IAEA prepare a booklet on water use and waste treatment to be distributed by governments.

- Conference on Water Pollution Problems in Europe,  
Geneva, 22 Feb. to 3 March 1961** (1961) MF  
62-02897  
Water Poll./Conf./28, 578-92  
Report of the conference

No 60-213me. Describes organization of the Conference and its field trip. Gives statements on: the most urgent water pollution problems in Europe; national control programs; river basin authorities—national and international—; their international administrative arrangements; establishment of international water pollution control bodies; investigations of drainage areas and evaluation of results; organizational staffing and training problems; laws and regulations bearing on water pollution; the economic aspects of water pollution problems; financing considerations; and international exchanges of information.

- Ayrshire River Purification Board** (1960?) F  
62-02898  
20 p.  
Sixth annual report for the year ended 15th May, 1960

WPA 35 (3) 539. Incl. a map of the area and information on water resources and the prevention of pollution, incl. details of the conditions and sources of pollution in the individual rivers.

GENERAL

- Dee & Clyde River Board (1960?)** F  
62-02899  
48 p.  
Annual report for the year ended 31st March, 1960
- WPA 35 (3) 540. Contains information on water resources—incl. the flow and temperature of rivers and abstractions of water—, land drainage, fisheries, and prevention of pollution, with individual consideration of the various rivers and details of causes of pollution and progress in schemes for the treatment of sewage and trade waste waters.
- Dee & Clyde River Board (1961?)** F  
62-02900  
50 p.  
Annual report for the year ended 31st March, 1961
- WPA 35 (3) 540. Co 62-02899.
- Dee & Don River Purification Board (1960?)** F  
62-02901  
8 p.  
Third annual report, year ended 15th May, 1960
- WPA 35 (3) 541. Contains information on water resources and prevention of pollution, with individual consideration of the condition of the Rivers Dee, Don, Ythan and Ugie—analytical data for each river being given in appendices—and summaries of instances of pollution and improvements in the treatment of sewage and trade waste waters.
- Dee & Don River Purification Board (1961?)** F  
62-02902  
10 p.  
Fourth annual report, year ended 15th May, 1961
- WPA 35 (3) 541. Co 62-02901.
- Devon River Board (1960?)** F  
62-02903  
22 p.  
Annual report for the year ended 31st March, 1960
- WPA 35 (3) 542. Contains information on water resources, land drainage, fisheries—incl. instances of fish mortalities—, and prevention of river pollution, incl. progress in schemes for sewerage and treatment of sewage and trade waste waters. Standards applied to effluents are summarized.
- Devon River Board (1961?)** F  
62-02904  
28 p.  
Annual report for the year ended 31st March, 1961
- WPA 35 (3) 542. Co 62-02903.

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- Hampshire River Board (1960?)** F  
62-02905  
38 p.  
10th annual report for the year ended 31st March, 1960
- WPA 35 (3) 543. Contains information on water resources, land drainage, fisheries, and prevention of pollution, incl. details of improvements at sewage works and a discussion of the results obtained in analyses of the individual streams. The results of a pollution survey of the river at Lyminster are given graphically.
- Hampshire River Board (1961?)** F  
62-02906  
38 p.  
11th annual report for the year ended 31st March, 1961
- WPA 35 (3) 543. Co 62-02905.
- Tay River Purification Board (1960?)** F  
62-02907  
8 p.  
First annual report, for the period 15th February to 15th May, 1960
- WPA 35 (3) 544. Contains information on water resources and prevention of pollution, incl. a summary of remedial action.
- Welland River Board (1960?)** F  
62-02908  
18 p.  
Annual report for the year ended 31st March, 1960
- WPA 35 (3) 545. Information on water resources, land drainage, and prevention of pollution in the river Welland and its tributaries, incl. reports on pollution by domestic sewage and various trade waste waters, sampling of effluents, and new and modified sewage-disposal schemes.
- Welland River Board (1961?)** F  
62-02909  
20 p.  
Annual report for the year ended 31st March, 1961
- WPA 35 (3) 545. Co 62-02908.
- West Sussex River Board (1960?)** F  
62-02910  
36 p.  
Tenth annual report for the year ended the 31st March, 1960
- WPA 35 (3) 546. Incl. information on water resources, land drainage, fisheries and prevention of river pollution, with individual consideration of the various watercourses and a summary of progress in schemes for the disposal of sewage and trade waste waters.



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62-02911
- Wye River Board (1960?)**  
30 p.  
Eighth annual report for the year ended 31st March, 1960
- WPA 35 (3) 547. Incl. information on water resources, land drainage, fisheries and prevention of river pollution.
- F  
62-02912
- Wye River Board (1961?)**  
28 p.  
Ninth annual report for the year ended 31st March, 1961
- WPA 35 (3) 547. Co 62-02911.
- F  
62-02913
- West Virginia State Water Resources Commission (1961?)**  
44 p.  
Annual report of progress for the fiscal year 1959-1960
- WPA 35 (3) 548. Contains information on progress in the development and protection of water resources and the abatement of stream pollution, incl. construction of plants for treatment of sewage and trade waste waters, sampling of water, and surveys of various rivers, incl. investigations of fish mortalities.
- F  
62-02914
- Madera, V. (1961)**  
Water Poll./Conf./22 Add. 1, 263-8  
National control programmes—The decentralized system applied in the Czechoslovak Socialist Republic
- Do 60-213me. With respect to Czechoslovakia, describes the decentralized type of control used for water pollution and the centralized type of water management and planning.
- F  
62-02915
- Gieseke, P. (1961)**  
Water Poll./Conf./4, 276-82  
River basin authorities on the Ruhr and on other rivers in Germany
- Do 60-213me. Describes the special organizations set up for control and abatement of water pollution in the industrial area of North Rhine Westphalia.
- F  
62-02916
- Maass & Hufschmidt (1961)**  
Wat. Poll./Conf./P. 18, 547-60  
Harvard programme of research in water resource development
- Do 60-213me. Abstr. of a paper describing a programme which is attempting through research to improve the methods for designing water-resource systems.

- F  
62-02917
- ECE. Secretariat (1961)**  
Water Poll./Conf./15, 561-7  
Establishment of international control bodies
- Do 60-213me. Describes origin of a paper—annexed—“ Tentative suggestions for the establishment of international river pollution control bodies in Europe ” prepared jointly by secretariats of ECE, FAO, and WHO in 1959, its discussion by ECE at its 14th session, 1959, and submits a number of possibilities for inter-governmental action looking toward the eventual establishment of machinery for pollution control in particular river basins.
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62-02918
- ECE. Secretariat (1961)**  
Water Poll./Conf./P. 21, 568-9  
Statement by the International Water Supply Association
- Do 60-213me. Suggests a number of possibilities for international action with respect to water pollution study and control.
- F  
62-02919
- ECE. Secretariat (1961)**  
Water Poll./Conf./P. 12, 576-7  
Statement submitted by the Government of Finland
- Do 60-213me. Describes plans in Finland for establishment of water conservation associations to operate on a voluntary basis.
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- BA 37A (1) 39. In 1960 the Institute of Biology was reorganized and on its base Institute of Botany and Institute of Zoology and Parasitology established. In the Institute of Zoology and Parasitology, a department of zoology of vertebrates, zoology of invertebrates and a laboratory for stocking lakes and ponds were established.
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62-02921
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*Inform. Fischw.*, 8 (2-3) : 43-79
- Co 62-02591.
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- Hungary. Central Statistical Office (1961)**  
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- Co 62-02924. Analyses of pedological profiles.

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Études écologiques et biocénétiques dans la baie du Brusé (Var). Fascicule 1: Les sols phanérogamiques de la formation lagunaire du Brusé (Ecological and biocenotic studies in the Bay of Brusé (Var). Fascicule 1: Phanerogamic soils of the lagoon formation of Brusé). En

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Computations from monthly hydrobiological stations performed from 1907 to 1914.

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*Bull. Inst. océanogr. Monaco*, (1201) : 8 p.  
Note sur les échanges de phosphates entre l'eau interstitielle des sédiments marins et l'eau qui les recouvre (Note on phosphate exchange between interstitial and surface waters of marine sediments). En

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Surface isotherms and animal indicators of different water masses.

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- Distribution of different types of deep-sea sediments, dating the sediment layers and the recent geologic history of the Pacific Ocean.
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*Met. Pap. Univ. Cy N.Y.*, 2 (6) : 88 p.

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The directional spectrum of a wind generated sea as determined from data obtained by the stereo wave observation project

Description of the history and operational procedure of the project; analyses of the data, their interpretation and conclusions.

**Jefferson, G. J.** (1961)  
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The Greenland Sea—Birthplace of depressions

Description of sudden developments of depressions in the Greenland Sea, with notes on their consequences on fishing in the area.

**Love, D. & D. Sam** (1961)

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San Francisco, U.S. Naval Radiological Defence Lab., 28 p.

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**Waldichuk, M.** (1961)  
 54 p.

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The pollution problem arising from the disposal of radioactive materials

Do 61-126me. WPA 35 (3) 527. Considers the basic differences between radioactive and non-radioactive waste waters; the different types of radioactive waste waters, in relation to methods of disposal; the fate of radioactive waste waters discharged to the sea; disposal in deep oceanic trenches; disposal in coastal waters; investigations on sea disposal carried out in the UK; and factors to be considered when applying data on radioactive waste disposal from one marine area to another area which may be quite different oceanographically.

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An observation of a deep countercurrent in the western North Atlantic

Incl. colored ill., section on methods of current measurement. Issued also as: *Contr. Woods Hole oceanogr. Instrn.*, (1129).

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*Deep-Sea Res.*, 8 (1) : 20-7

The magnetic field astern of a ship

May be divided into a permanent and an induced part. Induced part is linear function of field components and permanent part is independent of them, disturbance of total force by ship contains term independent of magnetic heading and terms proportional to the sine and cosine of the heading and of twice the heading. Results are verified by experiment by 'Discovery II' and by 'Sarsia'. Method for determination of principal coefficients and their variation with distance is described.

**Krause, D. C.** (1961) M  
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*Deep-Sea Res.*, 8 (1) : 28-38

Geology of the sea floor east of Guadalupe Island

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The thermohaline circulation in relation to the general circulation in the oceans

To arrive at estimate of role of thermohaline circulation, the magnitude and implications of various thermohaline effects are discussed numerically. Four-layer model of the wind driven and thermohaline circulation in a meridional plane is constructed, its implications are discussed and the results are found in agreement with the circulation pattern resulting from water mass analysis.

**Brown, N. L. & B. V. Hamon** (1961) M  
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*Deep-Sea Res.*, 8 (1) : 65-75

An inductive salinometer

Portable instrument for measuring salinity of sea water to accuracy of 0.003 parts per mille. Does not require temperature-controlled bath for samples. General design and operation described, and test results summarized.

**Rona, P. A.** (1961) M  
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*Deep-Sea Res.*, 8 (1) : 76-7

Gibbs seamount

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On the abyssal circulation of the world ocean—4. Origin and rate of circulation of deep ocean water as determined with the aid of tracers

Using box models, and observed distribution of temperature, salinity and radiocarbon estimates made of origins and rate of flow of waters that make up the common water in the Pacific and Indian Oceans and Antarctic intermediate water. Difficulties in extending computation to Antarctic bottom water are described. Emphasis placed upon questions of computational reliability and occurrence of "ill-conditioned" equations.

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Boron-boric acid complexes in sea-water

Boron in the Gulf of Mexico, in the forms of total, inorganic and organic complexes, was evaluated using a mannitol titrimetric method. Correlation between inorganic boron and chlorinity was observed except in the oxygen minimum region. Similar, but less-defined correlation, found between organic boron complexes and oxygen distribution. Preliminary investigation using boron-chlorinity ratios for identification of water masses and detection of circulatory patterns made on deep water of Caribbean. Data from the Venezuela, Columbia, Cayman, and Gulf basins.

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A description of Gulf Stream meanders off Onslow Bay

Data from a month of continuous surface observations show periodic time variation in the position of the current. Region studied is off North Carolina, where the current is close to the edge of the continental shelf.

**Emiliani, C.** (1961)  
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The temperature decrease of surface sea-water in high latitudes and of abyssal-hadal water in open oceanic basins during the past 75 million years

If constant temperature is more important for the survival of archaic forms than other factors, the equatorial pelagic fauna should show more archaic affinities than other marine faunas.



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 Prevention of water loss through CAB plastic sediment core liners

Wax bath has been developed to coat liners with a microcrystalline wax to retard water loss. Sealing properties of this wax are compared with those of paraffin and a combination of aluminium foil and microcrystalline wax.

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Recently discovered that depths of reversal of Nansen bottles, as calculated at the Honolulu Biological Laboratory from temperature differences of unprotected and protected reversing thermometers, are in error. Correction factor described. Error is present in all of the depth data which have been published by this laboratory under its previous name, Pacific Oceanic Fishery Investigations, and under its present name, Honolulu Biological Laboratory, up to and incl. 1960.

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Two cores, six dredge samples and a series of photographs taken by U.S.N.S. 'Chain' during its 1959 summer cruise.

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 Contamination and absorption of  $Sr^{90}$  and  $Cs^{137}$  in *Prochilodus platensis* (shad)

A study was made of the contamination of  $Sr^{90}$  and  $Cs^{137}$  in shad—herring—that were placed in water containing  $Sr^{90}$  and  $Cs^{137}$ . Measurements were taken of the activity of each isotope in the fish as a whole and in various organs at time intervals from 1 to 30 days.

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A study of unpolluted and polluted streams within the same river system—S. Africa—: topography, geology, zonation and bottom characteristics, water types and habitats; sources of pollution; methods; physico-chemical conditions of water and bottom; spp. and population samples, marginal vegetation; fauna—associations, indicator groups; tolerance analysis.

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62-03057  
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The ways of water

31 min, sound, colour. Work at this new acre site at Wallingford. Made partly as a medium for recruitment, partly as an informational film for clients and potential clients.

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Water Poll./Conf./26, 104-19

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Do 60-213me. Summary of papers and discussions at the Scientific Conference on the Disposal of Radioactive Wastes sponsored by the IAEA and UNESCO, with the co-operation of FAO, held at Monaco, 16-21 Nov. 1959.

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62-03059

Water Poll./Conf./19, 127-33

Principles of water quality control

Do 60-213me. Part 1 covers the principles emphasizing the need for co-operation by specialists in many disciplines and on underlying reliance on the science of limnology. Part 2 describes the history and rules of the Danubian research study group, a section of IAL.

**Petrik, M.** (1961)F  
62-03060

Water Poll./Conf./14, 202-17

Organization of surveys

Do 60-213me. Discusses importance of water and its quality for manifold uses; criteria of degree of pollution in a stream; purpose of surveys—inventories of water resources with respect to quality of water: methods used in these surveys; sampling, transport, laboratory facilities, analytical techniques, expression of results and utilization, experimental work, research; equipment.

**Petru, A.** (1961)F  
62-03061

Water Poll./Conf./P. 4, 218-24

Problems relating to the improvement of water quality

Do 60-213me. Describes the present situation in Czechoslovakia and the principles underlying a solution to the problem.

**ECE. Secretariat** (1961)F  
62-03062

Water Poll./Conf./P. 16, 226-38

Note by the French Government on various items of the programme

Do 60-213me. With respect to France, identifies the most urgent water pollution problems; describes legal and organizational water pollution control arrangements and procedures; describes classification system for watercourses—based on fish fauna—; lists administrative practices with respect to investigation of pollution, followed by action; proposes reforms in water pollution control in France. An annex shows the approximate numbers of industrial establishments responsible for harmful discharges in each major hydrographic basin.

**Cleary, E. J.** (1961)F  
62-03063

Water Poll./Conf./5, 283-92

Administrative principles and practices in water pollution-control

Do 60-213me. Describes the concept of water quality management, defines pollution, describes the elements of the pollution problem, discusses need for revision of legislation and the concept of control by river basin agencies.



**ECE. Secretariat** (1961) F  
62-03064  
 Water Poll./Conf./P. 13, 491-3  
 Statement by the Government of Austria

Do 60-213me. Discusses the financial aspects of a water pollution control program; credit extension to build treatment plants; tax-deductions; etc.

**ECE. Secretariat** (1961) F  
62-03065  
 Water Poll./Conf./P. 17, 494-5  
 Summary of observations by the Union de Chambres de Commerce Rhénanes

Do 60-213me. An abridgment of a statement concerning principles to be considered in connection with a common water pollution abatement law for international rivers.

**Wollman, N.** (1961) F  
62-03066  
 Water Poll./Conf./7, 528-46  
 An economic approach to water use and the maintenance of water quality

Do 60-213me. Sets forth a framework of analysis used recently in connection with a study of the supply of and demand for water in the U.S.A. Describes the model, patterns of water use and gives an example of treatment—flow relations in New England—, and limits of required flows, storage and treatment costs for the USA as a whole in 1980 and 2000.

**Day, J. S.** (1961) F  
62-03067  
*Inl. Fish. adm. Rep., Calif.*, (61-6) : 21 p.

A limnological survey of Lake Mendocino, Mendocino County, 1959, in relation to fish management

Describes a study of a California reservoir to determine its suitability for trout and warm water fishes; special attention given to oxygen and water temperature determinations in summer.

**Hammond, R. J.** (1961) G  
62-03068  
 Water Poll./Conf./6, 520-7  
 Benefit-cost analysis and water pollution control

Do 60-213me. Describes the history of the benefit-cost controversy in the USA, gives a critique of the current approach to benefit-cost analysis, describes the character of the water pollution problem and discusses whether or not benefit-cost analysis can be applied.

**Anon.** (1962) G  
62-03069  
*New Scient.*, 13 (276) : 506  
 Netherlands—Measuring sand particles

At the Royal Dutch/Shell Exploration and Production Laboratories a sedimentation balance has been developed which uses a column of water and an air jet to measure the amount of granular particles of different sizes in oil sands.

## PLANKTON

- David, C. N. & R. J. Conover** (1961) M  
62-03070  
*Biol. Bull., Woods Hole*, 121 (1) : 92-107

Preliminary investigation on the physiology and ecology of luminescence in the copepod, *Metridia lucens*

Skin glands believed to be the source of luminescence were found. Characteristics of the luminiscent flash were measured. Flashing behaviour may be involved in an escape mechanism.

- Źučetiĉ, T.** (1961) M  
62-03071  
*Biljjske Inst. Oceanogr., Split*, (16) : 8 p.

Some new data on the zooplankton standing crop measurements in the Adriatic. Hr

Ci 571740 & 61-00440. New data for N. Adriatic day weight of zooplankton taken during sardine echo-sounding Surveys, 1960.

- Hure, J.** (1961) M  
62-03072  
*Acta Adriat.*, 9 (6) : 59 p.

Dnevna migracija i sezonska vertikalna raspodjela zooplanktona dubljeg mora. (Diurnal migration and vertical seasonal distribution of zooplankton in the deep zone of the Adriatic). Hr Fr

- Źučetiĉ, T.** (1961) M  
62-03073  
*Acta Adriatic.*, 6 (9) : 20 p.

Vertical distribution of zooplankton in the Bay Veliko jezero on the island of Mljet. En Hr

Daily observation of Adriatic in summer; attempts to relate to salinity fluctuations, temperature and light.

- Angot, M.** (1961) M  
62-03074  
*Bull. Inst. Océanogr. Monaco*, (1200) : 34 p.

Analyse quantitative du cycle diurne de la production primaire dans le Pacifique subtropical près de la Nouvelle-Calédonie (Quantitative analyses of the diurnal cycle of the primary production in the subtropical Pacific near New-Caledonia). En

Results of measurements of planktonic pigments, primary production, light penetration, intensity of light at sea surface and physical and chemical characteristics of sea water.

- Vinogradov, M. E. & N. M. Voronina** (1961) M  
62-03075  
*Dokl. Akad. Nauk SSSR*, 140 (1) : 219-22

Raspredelenie nekotorykh massovykh vidov kopepod v Indiiskom okeane (Distribution of certain abundant copepod spp. in the Indian Ocean)

PLANKTON

- Furnestin, M. L.** (1961) M  
62-03076  
*Rev. Trav. Inst. Pêches marit.*, 25 (3) : 293-326  
 Ptéropodes et hétéropodes du plancton marocain (Pteropods and heteropods of the Morocco plankton)

Catalogue of spp. with notes on occurrence and distribution followed by an anatomical and histological study of a heteropod of the genus *Atlanta*.

- Furnestin, M. L.** (1961) M  
62-03077  
*Rev. Trav. Inst. Pêches marit.*, 25 (3) : 327-37

Morphologie et écologie de *Candacia aethiopica* Dana des eaux Atlantiques marocaines (Morphology and ecology of *Candacia aethiopica* Dana of the Atlantic Moroccan waters)

Morphology, abundance, seasonal and geographic distribution, distribution from coast, bathymetric distribution.

- Coker, R. E. & J. G. Gonzáles** (1960)\* M  
62-03078  
*J. Elisha Mitchell sci. Soc.*, 76 : 8-28

Limnetic copepod populations of Bahía Fosforescente and adjacent waters, Puerto Rico

- Bogorov, V. G. & M. E. Vinogradov** (1960) M  
62-03079  
*Trud. Inst. Okeanol.*, 34 : 60-84

Raspredelenie zooplanktona v Kurilo-Kamchatskom raione Tikhogo okeana (The distribution of zooplankton in the Kurile-Kamchatka region of the Pacific Ocean)

- Fraser, J. H.** (1962) M  
62-03080  
*Proc. roy. Soc.*, 265 : 335-41  
 Plankton

- Currie, R. I.** (1962) M  
62-03081  
*Proc. roy. Soc.*, 265 : 341-6  
 Productivity

- Gohar, H. A. F. & A. M. Eisawy** (1961) M  
62-03082  
*Publ. Mar. Biol. Sta. Al-Ghardaqa*, (11) : 3-42

The biology of *Cassiopea andromeda* from the Red Sea with a note on the species problem

- Gohar, H. A. F. & H. M. Roushdy** (1961) M  
62-03083  
*Publ. Mar. Biol. Sta. Al-Ghardaqa*, (11) : 43-70

On the embryology of the Xenidiidae (Alcyonaria) with notes on the extrusion of the larvae

- Gohar, H. A. F. & A. M. Eisawy** (1961) M  
62-03084  
*Publ. Mar. biol. Sta. Al-Ghardaqa*, (11) : 147-90  
 The development of *Cassiopea andromeda* (Schyphomedusae)

- Semenova, G. V.** (1960) M  
62-03085  
*Trud. baltiis. nauch.-issled. Inst. morsk. ryb. Khoz.*, 5 : 110-7  
 Izuchenie planktona i pitania planktonoiadnykh ryb v vodakh Srednei i  
 Ekvatorial'noi Afriki (A study of plankton and plankton-eating fish in the  
 waters of central and equatorial Africa)

BA 37A (1) 486.

- Margalef, R.** (1961) M  
62-03086  
*Hydrobiologia*, 18 (1-2) : 155-64  
 Correlations entre certains caractères synthétiques des populations de  
 phytoplancton (Correlations between some synthetic characters of phyto-  
 plankton populations). En

Observations in the Mediterranean showing a correlation between biotic  
 diversity and index  $D_{430}/D_{665}$ .

- Lewis, A. G.** (1961) M  
62-03087  
 Thesis, Univ. of Hawaii, USA, 486 p.  
 A contribution to the biology of caligid copepods parasitic on acanthurid  
 fishes of the Hawaiian Islands

DA 22 (6) : 2114. Taxonomy of caligoids on Hawaiian acanthurid fishes  
 and the ecology and life history of one sp., *Lepeophtheirus dissimulatus*  
 Wilson, was studied.

- Iizuka, S. & H. Irie** (1961) M  
62-03088  
*Bull. Fac. Fish. Nagasaki*, (11) : 83-8  
 Spectrophotometric investigation on the plankton pigment—4. On chloro-  
 phyll content of a species similar to *Gymnodinium*

Co 61-08303. Determination of the pigments, description of spp. involved,  
 and its chlorophyll content.

- Brodsky, K. A.** (Thomson, D. A. Transl.) (1961) M  
62-03089  
 Honolulu, Biol. Lab., 61 p.  
 The copepod fauna (Calanoida) and zoogeographical divisions of the North  
 Pacific and adjoining waters

En 60-3320.

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62-03090

**Dersamin, S. V.** (1960)

*Fish. Gaz., Philippines*, 4 (2) : 2-10

Fluctuations in the planktonic population of the estuaries of Navotas and Malabon

Summary of an investigation conducted at the Research Station of the Bureau of Fisheries, Dagat-dagatan, Malabon, Rizal.

MF

62-03091

**Butcher, R. W.** (1961)

*Fish. Invest., Lond.*, (4) : 17 p.

An introductory account of the smaller algae of British coastal waters—  
Part 8. Euglenophyceae = Euglenineae

Co 61-02310. Ill. descriptions of and keys to marine and brackishwater spp.

MF

62-03092

**Green, J.** (1962)

*New Scient.*, 13 (273) : 310-1

How freshwater animals survive Arctic winters

States that the Arctic spp. show clear adaptation to their habitat. Some have adjusted their life cycle so that its mature stages are confined to the short summer ; they spend the winter as eggs which are resistant to extremes of temperature.

F

62-03093

**Dunham, P. B. & F. M. Child** (1961)

*Biol. Bull., Woods Hole*, 121 (1) : 129-40

Ion regulation in *Tetrahymena*

A remarkable ability to maintain a high potassium concentration as well as a lower sodium concentration in very dilute medium was found and discussed in terms of a model system for ion regulation in *Tetrahymena pyriformis* and in other animals.

F

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**Popovskaia, G. I.** (1961)

*Izv. sib. Otd. Akad. Nauk. SSSR*, (9) : 104-13

Fitoplankton Posol'skogo i Istokskogo sorov ozera Baikal (The phytoplankton from the Posol and Istok wastes in Lake Baikal). *Ru*

F

62-03095

**Bishop, J.** (1961)

*Biochim. biophys. Acta*, 50 (3) : 471-7

Purification of an immobilization antigen of *Paramecium aurelia*, variety 1

Describes purification by electrophoresis in starch and chromatography on calcium phosphate gel.

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- Kahan, D.** (1961)  
*Bull. Res. Coun. Israel*, 9 (4) : 212  
The fauna of the hot springs of Israel  
Record of occurrence at various temperatures of bacteria, algae, amoebae, flagellates, ciliates, round-worms and Diptera maggots.
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62-03097
- Šterba, O.** (1961)  
*Biológia*, 16 (9) : 686-7  
Copepoda (Crustacea) aus den Bächen des Vihorlat-Gebirges (Copepoda (Crustacea) from the Vihorlat mountains). Ru  
Detailed description of 10 spp. of harpacticoids and 3 spp. of cyclopoids; 3 spp. new for Slovakia: *Attheyella* (*Brehmiella*) *northumbrica northumbrica* (Brady), *Maraenobiotus vej dovskýi* Mrázek, *Moraria brevipes* (Sars.), *Acanthocyclops languidoides languidoides* (Lilljeborg) known so far only from ground waters of Czechoslovakia and *Bryocamptus* (s. str.) *tarnogradskýi* Boruckij from Caucasus.
- F  
62-03098
- Knöpp, H.** (1959)  
*Dtsch. gewässerkundl. Mitt.*, 3 (4) : 65-70  
Über den Einfluss des Planktons auf die Sauerstoffzehrung von Flusswasser (On the influence of plankton on the oxygen consumption of river water)  
Results of field laboratory investigations on the consumption of oxygen by different plankton concentrations.
- F  
62-03099
- Willen, T.** (1960)  
*Vattenhygien*, 4 : 133-44  
Växtplankton och vattenvard (Phytoplankton and water conservation)  
Quantitative survey of lake Mälaren and of 5 lakes near Eksjö; indicative spp. are used to characterize these water bodies.
- F  
62-03100
- Oliver, G. C. S.** (1961)  
*J. Instn Wat. Engrs*, 15 : 51-2  
The eradication of *Asellus* from water mains by application of pyrethrum  
WPA 35 (3) 426. Reports on the successful use of a diluted alcoholic solution of pyrethrum extract to eradicate *Asellus* which were blocking a small filter.
- F  
62-03101
- Kaltenbach, A.** (1960)  
*Wass. u. Abwass.*, 1960 : 151-74  
(Ecological investigations on Danube ciliates). De  
WPA 35 (3) 451. Results of investigations during 1959 and 1960 into the ciliate population of the littoral zone of the Danube between Klosterneuburg and Deutsch-Altenburg. 3 types and 1 sub-sp. were new. The effects of environment, season, and available nutrient matter on the total numbers and on the composition of the population are discussed.

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*Wass. u. Abwass.*, 1960 : 108-32  
 (Silicic acid and diatom growth in the lower Lake Lunz and neighbouring streams, including the Ybbs). *De*
- WPA 35 (3) 453. Results of determinations of silica, conductivity, and alkalinity, and of examination of the diatom population in the lower Lake Lunz, Austria, its tributaries the Seebach and the Mayrgraben, and the River Ybbs into which it discharges. Springs in the district were also examined.
- Krause, H. R.** (1962) F  
62-03103  
*FAO Fish. Biol. Rep.*, (34) : 14 p.  
 Investigation of the composition of organic matter in natural waters
- Final report of FAO André Mayer Fellowship held by the author 1/4/59-31/3/61 reviewing the subject and giving results of experimental work at Falkau, Germany, and Cornell University, U.S.A. Results relate to evaluation of inland waters from fisheries point of view and pollution problems.
- Takeya, T.** (1960) F  
62-03104  
*Bull. Freshw. Fish. Res. Lab., Tokyo*, 9 (1) : 17-22  
 (On the chironomid larvae obtained from the stomach contents of the pond-smelt, *Hypomesus olidus*, a plankton feeding fish). *Ni En*
- Nedeljković, R.** (1959) F  
62-03105  
 Beograd, Biološki Institut N. R. Srbijé, 156 p.  
 Skadarsko jezero—Studija organske produkcije u jednom karsnom jezeru (The Skadar Lake—Study of organic production in a Karstic lake)
- Describes results of investigations on a Balkan lake, April 1952 to June 1955, designed to cover typology, productivity and fishery problems in Karstic waters.
- Axelson, J.** (1961) F  
62-03106  
*Rep. Inst. Freshw. Res. Drottning.*, (42) : 84-168  
 Zooplankton and impoundment of two lakes in northern Sweden (Ransaren and Kultsjön)
- Describes studies made in order to determine effect of fluctuation caused by a power dam.
- Axelson, J.** (1961) F  
62-03107  
*Rep. Inst. Freshw. Res. Drottning.*, (42) : 169-82  
 On the dimorphism in *Cyclops scutifer* (Sars) and the cyclomorphosis in *Daphnia galeata* (Sars)
- Based on studies in two northern Swedish lakes.

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The obligate commensal ciliates of *Strongylocentrotus dröbachiensis* : occurrence and division in urchins of diverse ages; survival in sea water in relation to infectivity
- M  
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*Biol. Bull., Woods Hole*, 121 (1) : 82-91  
Observation on the respiration of the sabellid polychaete *Schizobranchia insignis*
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*Biol. Bull., Woods Hole*, 121 (1) : 141-50  
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Reported on the breeding season of *Alloccentrotus fragilis* and on its nutrition.
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- Iwasaki, H.** (1961)  
*Biol. Bull., Woods Hole*, 121 (1) : 173-87  
The life-cycle of *Porphyra tenera* *in vitro*  
Chemically defined media or enriched sea water permit good growth of these unialgal (not bacteria-free) cultures. No correlations exist between temperature and the phases of the life-cycle. Length of the photoperiod has remarkable effects on the *Conchocelis* and leafy-thallus phases of *P. tenera*. The photoperiod governs, besides growth, the formation of the spores producing the next phase of the life-cycle.
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62-03112
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*Sci. & Cult.*, 27 : 204-5  
Influence of chemical composition of sea water on wood-boring mollusc, *Martesia striata*  
BSEA 7 (6) 3364.
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*Sci. & Cult.*, 27 : 206  
Growth rate of the shipworm *Teredo furcillatus* Miller  
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*Rev. Biol. mar., Valparaiso*, 10 (1-2-3) : 143-54  
Primero estadio larval de cuatro crustaceos braquiuros de la bahía de Valparaiso (First larval stage of four brachyuran Crustacea of the Valparaiso Bay). En  
Detailed description of the first zoea of *Cancer porteri*, *Homalaspis plana*, *Ovalipes punctatus*, *Hepatus chiliensis*.



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 Sur la composition chimique des mucilages de *Fucus spiralis* et *Pelvetia canaliculata* (The chemical composition of mucilage in *Fucus spiralis* and *Pelvetia canaliculata*)  
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 The genus *Codium* (Chlorophyta) in South Africa  
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 Algae photosynthesis as measured by absorption of radioactive carbon from water  
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*Quart J. Fla Acad Sci.*, 23 (3) : 222-60  
 Ecology and distribution of marine algae found in Tampa Bay, Boca Ciega Bay, and at Tarpon Springs, Florida  
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*Ann. Inst. océanogr., Paris*, 38 (3) : 234-323  
 Écologie de l'estran rocheaux du Calvados : étude des biocénoses et recherches expérimentales (The ecology of Calvados rocky intertidal zone; study of the biocenosis and experimental researches). En  
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 62-03121
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 Sur la présence accidentelle de *Callinectes sapidus* M. Rathbun à l'embouchure de la Gironde (Accidental occurrence of *Callinectes sapidus* M. Rathbun in the mouth of the Gironde)  
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 Taxonomic description.
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 Quelques éponges remarquables de Méditerranée (Some noteworthy sponges of the Mediterranean)  
 Taxonomic descriptions of *Asconema setubalense*, *Radiella tissieri*, n.sp., *Merlia normani*, *Ircinia paucifilamentosa* n.sp.
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Outlines the methods to be used in reporting on: the fish, the environment and methods used in the tests.

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*J. geophys. Res.*, 66 (10) : 3329-35

Changes in the levels of Lakes Michigan and Huron

Ten-year overlapping averages of mean annual levels of the Great Lakes for the period 1860 to 1960 are studied. The apparent factors associated with the drop in levels are considered.



**Malmer, N.** (1961) F  
62-03600  
*Bot. Notiser*, 114 (2) : 121-44  
 Ecologic studies on the water chemistry of lakes in south Sweden

Analyses of waters are given from 33 lakes in the south Swedish oligotrophic region. Na, K, Mg, Ca, Fe, Al, Cl,  $\text{HCO}_3$ ,  $\text{SO}_4^{2-}$  and water colour were determined. Short descriptions of the vegetation in the lakes sampled are also given.

**Sport Fishing Institute, Washington, D.C.** (1961) FG  
62-03601  
*Items Fish. Sci. Sport Fish. Inst.*, June : 2 p.

Contains notes on remote controlled underwater tractor to tow scientific equipment under lake ice, being developed by D. Livermore at University of Wisconsin; and on new Denil fishway being built in Oregon.

**Cleary, E. J. & W. L. Klein** (1961) FG  
62-03602  
*In* 62-03584 : 108-13  
 Instrumentation. Part 1. Introducing the Orsanco robot monitor

Describes development, design and use of an automatic water analyser to be used on the Ohio River drainage to measure: pH, chloride ion, specific conductance, dissolved oxygen, oxidation-reduction potential, temperature and solar radiation.

**Jones, R. H. & R. J. Joyce** (1961) FG  
62-03603  
*In* 62-03584 : 114-23

Instrumentation. Part 1. Instrumentation for continuous analysis of constituents in water—A review

Reviews the principles of presently available instrumentation.

**Brailsford, H. D. & J. S. Beach, Jr.** (1961) FG  
62-03604  
*In* 62-03584 : 124-6

Instrumentation. Part 1. A new portable instrument for the continuous automatic collection of water samples

Describes the model DC effluent sampler which uses an oscillating cylinder pump powered by dry batteries.

**Baker, R. J.** (1961) FG  
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*In* 62-03584 : 126-30

Instrumentation. Part 1. Monitoring stream quality

Describes equipment for continuous measurement of chlorine demand and oxidation-reduction potential.

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 Instrumentation. Part 1. Automatic instrumentation for water analysis

Describes commercially available instruments for automatic analysis of surface and treated waters used for industrial and domestic purposes. Incl. are instruments for measuring dissolved oxygen, surface tension, residual chlorine, turbidity, and traces of various chemical impurities.

- Dixon, W. S.** (1961) FG  
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*In* 62-03584 : 153-61  
 Instrumentation. Part 2. Pollution control by continuous dissolved oxygen analysis and associated instruments

Describes the development of an analyzer for surface water and discusses associated instrumentation necessary to monitor stream.

- Babcock, R. H. & F. E. Moore** (1961) FG  
62-03608  
*In* 62-03584 : 187-91  
 Instrumentation. Part 2. Analytical measurements for continuous transmission

Discusses practicability of continuous transmission of measurements from water quality stations.

- Hach, C.** (1961) FG  
62-03609  
*In* 62-03584 : 192-9  
 Instrumentation. Part 2. Automatic continuous flow colorimetric and titrametric analyzers and turbidimeters

Discusses these with respect to their use for measuring parameters of water quality.

- Stimler, S.** (1961) FG  
62-03610  
*In* 62-03584 : 204-10  
 Data handling—Introduction to the systems concept of an automated data acquisition, transmission and processing system

Discusses the systems concept for an automatic water quality measuring system on a nationwide system.

- Rogers, M. E.** (1961) FG  
62-03611  
*In* 62-03584 : 210-20  
 Data handling—Methods of data transmission

Defines terms and sorts out systems adaptable to the field of sanitary engineering.

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Lender, A. (1961)  
*In* 62-03584 : 221-7

FG  
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Data handling—Application of digital data transmission to water monitoring data

Outlines a system for such application.

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*Invest. pesq.*, (18) : 3-8

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Velocidad de sedimentación de organismos pasivos de fitoplancton (Sinking speed of passive phytoplankton organism). En

A tabular presentation of data compiled from miscellaneous sources.

Cervigón, F. (1961)  
*Invest. pesq.*, (18) : 9-31

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Descripción y consideraciones sobre los sifonóros de las costas occidentales de Africa, recogidos en las campañas del 'Costa Canaria' (Description and considerations on siphonophores of the western coast of Africa collected during the 'Costa Canaria' expeditions). En

128 zooplankton samples from Cabo Jubi to Portuguese Guinea are studied. It appears that *Muggiaea atlantica* and *Chelophyes appendiculata* are the only neritic spp., the remainder are oceanic ones. Four spp. were not identified and are briefly described. A comparison with the Mediterranean fauna is also given in this paper.

Margalef, R. (1961)  
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Hidrografía y fitoplancton de un área marina de la costa meridional de Puerto Rico (Hydrography and phytoplankton of a marine area of the southern coasts of Puerto Rico). En

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The distribution of eyed flounder and lanternfish larvae in the Georges Bank area

Study of distribution and temperature relationships.

Morozova-Vodianitskaia, N. V. (Anon. Transl.) (1960)\*  
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- O prinadlezhnosti dvukh lichinok polikhet tipa rostraria iz planktona severo-zapadnoi Atlantiki k vidam *Amphinome pallasi* Quatrefages 1865 i *Chloenea atlantica* McIntosh 1885 (Polichaeta, Errantia, Amphinomorpha) (On the attribution of two polychaet larvae of the rostraria type from the plankton of the north-west Atlantic to the spp. *Amphinome pallasi* Quatrefages 1865 and *Chloenea atlantica* McIntosh 1885 (Polichaeta, Errantia, Amphinomorpha))

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*It* 60-0905.

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*Publ. Inst. Zool. Nbre*, (77) : 208 p.
- Foraminiferos da costa de Moçambique (Foraminifera from the Mozambique coast). *Pr En Fr*

270 spp. have been identified from 65 bottom samples taken between Inhambane and Lourenço Marques, during the campaigns of 1945, 1946 and 1947 of the "Missão Hidrográfica". Biogeographical affinities are discussed.

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A new sp. of naked Dinophyceae is described and the culture medium for its continued growth defined.

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1. Fishes feeding on minute bottom food containing Tubificidae become infested by 2nd stage larvae. Some of these fishes, *Barbus barbus* and *B. petenyi* could become definitive hosts of the parasites. 2. Spp. parasitic in predatory fishes would need 2 intermediate hosts: bottom-dwelling fauna, oligochaetes, as a first intermediate host harboring 2nd stage larvae and some nonpredatory fish feeding on bottom-dwelling fauna.

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## BENTHOS

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Comparative table listing distinguishing characters of the spp., with references to previous literature, records of the material observed, and geographical distribution of the spp.
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The behaviour of the stalked intertidal barnacle *Pollicipes polymerus* J. B. Sowerby, with special reference to its ecology and distribution

Studied in field and experimentally in aquarium by time-lapse photography and kymograph. Occurs often in dense masses in the exposed midlittoral of the American west coast. Animals are orientated on rocks so that cirral net faces the rush of water after the waves have broken. The animals grow very slowly. The specialized behaviour allows the sp. to maintain itself in a restricted part of the intertidal zone against competition from faster-growing animals that mature quickly and produce large broods of young.

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Absorption and excretion of copper ion during settlement and metamorphosis of the barnacle, *Balanus amphitrite niveus*

Copper absorption during the cyprid-form developmental stage occurs through respiratory surfaces. It is suggested that the anti-fouling effectiveness of copper is due to interference with normal respiratory exchange.

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Amino acid sensitivity of the dactyl chemoreceptors of *Carcinides maenas*

Dactyl chemoreceptors were electrophysiologically demonstrated in *Carcinides maenas*, *Libinia emarginata*, *Callinectes sapidus*, and *Pagurus pollicaris*. Optical isomers of glutamic acid, aspartic acid and leucine are distinguished by small populations of *Carcinides* dactyl receptors.

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- Experiments in laboratory and observations on shore suggest that under natural conditions the animals float on the surface film of the water by means of a mucous raft, which also acts as a food net. After a time, which is geared to the tidal oscillation, they submerge at mid-tide level. These animals, formerly regarded as mainly benthonic, spend part of their time as pelagic plankton feeders.
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*Aphrosylus ferox* Walk. (Dipt. Brach.), new to Norway
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 Morphological and experimental studies on the genus *Echinus*
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*En* 61-10506. Describes method of computing for short-lived spp., the catch in one year, the total survival rate, the annual contribution of recruitment as a percentage of stock, and assuming, implicitly, that exploitation rate is constant. Applied to a Bulgarian Black Sea fishery for unnamed spp. Author refers to sprat, anchovy, mackerel, *Mullus barbatus*. Ci 60-4389; 1953, Monastyrsky, G. N.; 1953, Nikol'sky, G. V.; 1932, Hodgson, W.; 1935, Rollefsen, G.; 59-1839.

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*En* 62-04995.

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*Transl. Ser. Fish. Res. Bd Can.*, (349) : 22 p.

Local stocks of autumn chum salmon in the Amur basin

*En* 1956, Birman, I. B. Discusses value of knowledge of local stocks on total mass of keta of a seven year class.

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- Abakumov, V. A.** (Ricker, W. E. Transl.) (1961) MF  
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*Transl. Ser. Fish. Res. Bd Can.*, (353) : 18 p.  
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*En* 61-10550. Reviews subject and proposes hypothesis on the origin of seasonal races of anadromous fishes.

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*En* 62-01551.

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- Distinguished on basis of index of maturity, the ratio of weight of gonads to total body weight. The method does not permit positive identification in case of "immature" fish taken early in the season that might have begun to mature at a later date had they not been caught.

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- Attempt to distinguish mature and immature fish for salmon caught during the marine period of their life, i.e., to determine whether or not they would be spawning fish of the year. Principally based on histological observations of gonads, and the characteristics and rate of gonad development of other fishes, particularly kokanee, as well as the maximum degree of gonad development for their immatures.
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- Observations in Florida on several spp. incl., *Fundulus*, *Elops*, *Megalops*, *Mugil*, *Diapterus*, *Cyprinodon*, *Mollienesia*, *Centropomus*, *Lucania*, *Gambusia*, *Menidia*.
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- Cytochrome oxidase activity is progressively increasing throughout normal development of the pond loach, *Misgurnus fossilis*. Heavy radiation doses (40 000 r) completely inactivate the genetic function of the nuclei but direct inactivation of the enzyme does not exceed 20-30% and affects but slightly the subsequent rise of its activity.
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The management of Tennessee farm ponds
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- All vertebrates are subject to numerous neoplastic diseases. In some instances the incidence of neoplastic diseases is very high as in the case of hepatoma in hatchery-raised rainbow trout. In hatchery-raised brook trout a visceral granuloma seems to be equally frequent. At the present time one can only speculate on the causes of these diseases, but circumstantial evidence seems to incriminate genetic makeup, nutrition and metabolism as the most likely contributing factors in both diseases.

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*Circ. U.S. Fish Wildl. Serv.*, (125) : 11 p.  
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- Composition of diet determined by analysing stomach contents, using volume, number and occurrence methods. All methods yield comparable results, but volume is most satisfactory. Relative extent to which different animals are eaten depends mainly on their numerical representation in the fauna, though their size, habits and mobility are probably also important. *Gammarus pulex* formed 24 per cent of the total food. Other important animals were caddis larvae *Limnephilus lunatus* and *Potamophylax* and isopod *Asellus*. Seasonal changes in diet largely result of seasonal changes in availability of food organisms. Trout is a more superficial feeder than grayling. This reduces competition for food between two spp.; trout appeared to avoid eating corixidids. No important change in feeding-habits with size found within the size-range covered by samples 88-344 mm.

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*ICNAF Newsltt.*, (39) : 4 p.

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- Eleven dives have shown that the diving "saucer" can be used not only as a vessel for observations intermediate between an autonomous scaphander and a bathyscaph, but also as a vessel for the extensive exploration of the shallower parts of the sea bed. Some particularly striking results were obtained on the banks of the canyon of Cassidaigne.
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 A preliminary study of the oxygen and phosphate distribution in the Mediterranean Sea

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Improved technique of deep-sea rock-dredging
- Dredge especially designed to free itself from a rocky bottom used to gather rock from the north wall of the Puerto Rico Trench in water depths greater than 2500 fm (6398 m). Positioned near bottom by acoustic technique which has been used successfully to control camera lowerings (Edgerton & Cousteau, 1959) and corings (Hersey, 1960).
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First issue of new series published under auspices of international advisory group with FAO and ICES participation. 4 colon charts summarize data from National Weather Records Center of US Weather Bureau (NWRG), mostly from US merchant and naval vessels, and also British vessels; also research vessel data from Navy Hydrographic Office, and US Bureau of Commercial Fisheries, and Canadian Atlantic Oceanographic Group. Text, tables, and analytical discussion. The maps show averages, differences, spring and autumn warming and cooling, winter and summer ranges, maxima and minima. Charts also available separately on translucent paper.

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Problem notes. Sound—Transducers—Transducer research
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Contains series of short papers dealing with hydrography, plankton and benthos, and fish in the various sub-areas of the NE Atlantic, incl. chairmen's summaries of sub-area reports to ICES, and a general introduction by the Secretary-General; main spp. dealt with are herring, cod, haddock, whiting, redfish, plaice, soles and salmon—incl. pink salmon—, oysters, tuna, sardines, mackerel and sprats. Authors are: Aleksejev, A., B. Istoshin and L. Ponomarenko; Allan, I. R. H., A. Swain and M. J. Bulleid; Andersen, K. P.; Baranenkova, A. S.; Bratberg, E.; Ciegiewicz, W.; Corlett, J.; Craig, R. E.; de Veen, J. F.; Devold, F.; Dragesund, O.; Drinkwaard, A. C.; Elwertowski, J.; Elwertowski, J. and H. Janko; Fedosov, M. V. and I. A. Ermachenko; Filarski, J., K. H. Postuma and K. P. Andersen; Fraser, J. H.; Fridriksson, A.; Gamble, R.; Gilis, Ch.; Glowinska, A.; Goedecke, E.; Gruzov, L. N. and E. A. Pavshits; Gundersen, K.; Hallgrimsson, I.; Hansen, P. M.; Hermann, F.; Höglund, H.; Jensen, A. J. C.; Joensen, J. S.; Jones, R.; Jónsson, J.; Kändler, R.; Korringa, P.; Kotthaus, A.; Krefft, G.; Lablaika, I. A.; Letaconoux, R.; Lovegrove, T.; Mankowski, W.; McPherson, G.; Meyer, A.; Meyer-Waarden, P. F.; Meyer-Waarden, P. F. and K. Tiews; Nikolaev, I. I. and N. K. Krievs; Østvedt, O. J.; Otto, L., K. H. Postuma and J. J. Zijlstra; Parrish, B. B.; Parrish, B. B. *et al.*; Parry, G.; Postuma, K. H. and J. J. Zijlstra; Rae, B. B. and J. M. Lamont; Reimann, Z.; Roessingh, M.; Rogalla, E.; Romanski, J.; Rutkowicz, St.; Sahrhage, D.; Saville, A.; Schmidt, U.; Schubert, K.; Shurin, A. T.; Siudzinski, K. and L. Zmudzinski; Sonina, M. A.; Stefánsson, U.; Strzyzewska, K.; Svansson, A.; Swain, A.; Tait, J. B.; Thomsen, H.; Tiews, K.; Vilela, H. and E. Cadima; Wiktor, K.; Yudanov, I. G.; Ziegelmeier, E.; Zijlstra, J. J. and K. H. Postuma. Contains 62-05608, 62-05557, 62-05558, 62-05332, 62-05331, 62-05264 to 62-05266.

MF

**Swain, A. & I. R. H. Allan** (1961)  
*Ann. biol., Copenhagen*, 1959, (16) : 247-8

62-05608

International tagging tests with salmon smolts

Part of "The fish—Salmon and trout—England and Wales".

MF

**Defrise-Gussenhoven, E.** (1960)  
*Bull. Inst. agron. Gembloux*, 1 : 356-73

62-05609

Dynamique des populations de poissons soumis à la capture (Dynamics of the populations of fishes subject to capture). En De

Ci 581530.

MF

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*Bul. Inst. Cerc. pisci.*, 20 (2) : 96 p.

62-05610

Contains 62-05662 to 62-05665, 62-05346, 62-05314-15, 62-05611, 62-05398.

**Popescu, L.** (1961)*Bul. Inst. Cerc. pisci.*, 20 (2) : 39-44

Contribuții la cunoașterea prolificității citorva specii de pești dulcicoli și marini din apele noastre (Contribution to the knowledge of the prolificness of some species of freshwater and marine fishes from Romanian waters).  
Ro Fr Ru

MF  
62-05611**Caloianu-Iordăchel, M.** (1961)*Stud. Cercet. Biol. (anim.)*, 13 (3) : 353-69

Contribuții la studiul histofiziologic al sistemului digestiv de la unele Acipenseride în primele etape ale dezvoltării postembrionare (Contribution to the histo-physiological study of the digestive tube of some Acipenseridae, during the first stages of the post-embryonic development). Ro Fr Ru

MF  
62-05612

Comparative study of *Acipenser gùldenstãdti persicus* Borodine, *A. stellatus stellatus* n. *cyrensis* Berg., *A. nudiventris* Lov. and *Huso huso caspicus* Babouchkine.

**Villadolid, D. V.** (1961)*Sci. Bull. Manila*, 5 (4) : 44

Philippine fishes

BSEA 7 (10) 5980.

MF  
62-05613**Orange, C. J.** (1961)*Bull. Inter-Amer. trop. Tuna Comm.*, 5 (6) : 459-526

Spawning of yellowfin tuna and skipjack in the eastern tropical Pacific, as inferred from studies of gonad development. *En Es*

Analysis of samples from commercial catches of *Katsuwonus pelamis* and *Neothunnus macropterus*. Size at maturity, times and places of spawning.

MF  
62-05614**Ball, J. N.** (1962)*Nature, Lond.*, 194 (4830) : 787

Brood-production after hypophysectomy in the viviparous teleost *Mollienesia latipinna* Le Sueur

Developed technique for hypophysectomy in this poeciliid which permits removal of pituitary gland with good survival in fish down to about 35 mm length. Like *Fundulus heteroclitus*, hypophysectomized mollies cannot live in fresh water.

F  
62-05615**Szabo, T.** (1962)*Nature, Lond.*, 194 (4828) : 600-1

Spontaneous electrical activity of cutaneous receptors in mormyrids

Rhythmic discharges observed in *Mormyrops nigricans*, *Mormyrus* spp., *Gnathonemus*, *Hyperopisus*, *Marcusenius*, *Gymnarchus* and *Genyomyrus*.

F  
62-05616



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- F  
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- Taylor, H. W. et al.** (1961)  
*Biochim. biophys. Acta*, 54 (2) : 391-4  
The paper chromatography of insulins from ox pancreas, human pancreas and the isolated islet tissue of the N. American toadfish (*Opsanus tau*)
- Simple extraction methods used to avoid lengthy methods previously employed: these might be of value where incorporation of radioactivity into pancreatic proteins was being studied.
- F  
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- Lambou, V. W.** (1961)  
Louisiana Federal Aid in Fish Restoration Project F-1-R, mimeo: 46 p.  
Efficiency and selectivity of flag gill nets fished in Lake Bistineau, Louisiana
- Describes experiments with nets without lead line hung on a top line which locks plants and comparison of catches with estimates of populations made by rotenone poisoning.
- F  
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- Klopper, F. D.** (1961)\*  
*J. comp. physiol. Psychol.*, 54 : 710-2  
Threat distance in ovigerous crayfish
- F  
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- Wachtel, A., R. Mathewson & H. Grundfest** (1961)\*  
*J. biophys. biochem. Cytol.*, 11 : 63-75  
Electron-microscopic and histochemical comparison of the two types of electro-plaques of *Narcine brasiliensis*
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(Influence of asphyxia on phosphoremia in *Tinca vulgaris* Cuv.). *Fr*
- F  
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*Circ. U.S. Fish Wildl. Serv.*, (112) : 20 p.  
Parasites and diseases of warm-water fishes
- Brief brochure designed to describe some of the commoner diseases and parasites and their control: costiasis, trichodiniasis, ichthiophthiriasis, black-spot, intestinal fluke diseases, tapeworms, monogenetic flukes, anchor worm (*Lernea*), fish lice (*Argulus*), fungus, columnaris.
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*Ark. Anat. Cist. Embr.*, 41 : 95-106  
(Afferent innervation of the digestive tract in fish. Data on the comparative histology of the nervous system. Afferent innervation of the digestive tract in *Carassius carassius* L.). *Ru*

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- F  
62-05625
- Munk, O. (1961)\***  
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- Hueper, W. C. & W. W. Payne (1961)\***  
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Observations on the occurrence of hepatomas in rainbow trout
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- IABS 25 (1) 1919. Analyses the role of the macronucleus in the differentiation of new life cycle stages: the data are consistent with the hypothesis that the macronucleus undergoes age-correlated changes and that these are ultimately responsible for the reappearance of mature cells in an ex-conjugate clone.
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 Discusses progress and problems in fishery research and management.
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*SFI Bull.*, (125) : 1-8  
 Navigation plan threatens famed striped fishery  
 Describes prophesied effect of a projected series of locks and dams above Santee-Cooper Reservoir, South Carolina, on an important sport fishery for landlocked striped bass, *Roccus saxatilis*.
- Comfort, A. & F. Doljansky** (1959)\* F  
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*Gerontologia*, 2 : 266-83  
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- Motelicǎ, I.** (1961) F  
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 The occurrence of *Cysticercus dilepidis*—*campylancistrotae* (Aubert, 1856) in the gall bladders of carps—*Cyprinus carpio* L.
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- Coche, A.** (1960) F  
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 3. La pisciculture en rizière dans le Haut-Katanga Méridional (2. Cultivation of the rice paddies and irrigated rice in the southern High-Katanga. 3. Fish cultivation in flooded rice fields in the southern High-Katanga)
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*U.S. Trout News*, 6 (4) : 5, 21-2  
A progress report on hepatoma

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F  
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Hepatoma

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Border inspection of trout

Describes the system used since 1956 in California to inspect shipments of live domestically reared trout for disease and parasites.

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Some aspects of the hematology of two species of catfish in relation to their habitats

Study of *Ictalurus nebulosus* and *I. punctatus* from Indiana ponds and rivers respectively. Bloodcounts, pH, S.G.; O<sub>2</sub> capacity, and dissociation curves; CO<sub>2</sub> curves; differences in effect of temperature on blood carrying capacity.

F  
62-05651

**Van Schoor, D. J.** (1959)  
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F  
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Controlled experiments in fish production

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- Examines the qualitative and quantitative distribution of several taxonomic groups composing the insect fauna of the riffles.
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- Describes its use at an experimental salmonid hatchery in heating in winter and cooling in summer.
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Ro Fr Ru  
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 Thesis, Univ. of Liverpool, U.K.  
 The biology of Llyn Tegid trout in 1959-60
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 Durchführung von Leistungsprüfungen in der Karpfenzucht (Performance  
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FG

*Gerontologia*, 5 (4) : 209-22

62-05681

The longevity and mortality of a fish (*Lebistes reticulatus*) (Peters) in captivity

Ci 582524; 58-6667; 58-6668; 62-05713; 62-05633. Life tables have been prepared for the fish under various laboratory conditions. The age-mortality relationship in this sp. does not appear to differ materially from that in small mammals. Relation between the curves of age/size and age/mortality in *Lebistes* is consistent with that which has been postulated for larger fish (plaice, sturgeon). Pathological findings in the populations under study are described.

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FG

*Stud. Cercet. Biol. (anim.)*, 13 (2) : 143-54

62-05682

Cercetări asupra unor lipaze ale crapului de cultură (Researches on certain pond carp lipases). Ro Ru Fr

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FG

*Biochim. biophys. Acta Prev.*, 1 (6)

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FG

*Anat. Rec.*, 140 (4) : 285-7

62-05684

Heart size and body size in fish

Ci 1921 Hesse, R. Comparative study of *Opsanus tau*, *Eupomotis gibbosus*, *Brevoortia tyrannus*, *Dorsoma cepedianum*, *Ictalurus catus*, *I. lacustris*, *Morone americana*, *Leiostomus xanthurus*, *Roccus saxatilis*, *Perca flavescens*, *Promolobus aestivalis*, *Huro salmoides*, *Pomoxis nigro-maculatus*. Heart weight in constant % of total, irrespective of spp.

## MISCELLANEOUS AND AUXILIARIES

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M

*Treat. Ser., U.K.*, (71)

62-05685

Nicaragua

Notes on the treaty of 1916 for the regulation of turtle fishing by the Cayman islanders in Nicaraguan territorial waters.

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*Acanthicolepis cousteaui* n. sp., un aphroditien de profondeur récolté par la soucoupe plongeante (*Acanthicolepis cousteaui* n. sp., a deep-sea aphroditian collected during a dive with the "diving saucer"). En

Collected on *Madrepora (Amphelia) oculata* at the submarine canyon "rech Lacaze-Duthiers", near Banyuls-sur-Mer. Author has revised the material of *A. asperrima* from Fauvel's collection; gives a dichotomic key of the genus.

- Băcescu, M.** (1961) M  
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Based on material collected in Haifa Bay; 8 spp. new to this area are recorded, with systematic and biogeographical remarks. Describes *Apsudes tenuimananus gottliebi* n.sp., *A. robustus israeliticus* n.sp., *A. africanus orientalis* n.sp. and *A. latreilli mediterraneus* n.sp.

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*Stud. Cercet. Biol. (anim.)*, 13 (4) : 517-33

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Photosynthesis of marine plants as related to salinity

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Exposure of *Microcoleus vaginatus* (Vaucher) to positively-ionized air results in increased migration and growth. The hypothesis is advanced that positively-ionized air causes increased growth of plants by releasing endogenous bound indoleacetic acid.

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62-05902  
*Pol. marit. News*, 4 (36-6) : 23 p.

Section on fishing gives information about Polish-German fishing company, voyage of M.T. 'Birkut' to W. African grounds. Fishing news bulletin gives notes on catches, govt. and industrial activities.

- Gdynia. Polish Chamber of Foreign Trade** (1962) M  
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*Pol. marit. News*, 5 (41) : 21 p.

Section on fishing gives information about protection of sea fisheries and fishing news bulletin gives notes on catches, govt. and industrial activities.

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*Contr. Cent. Invest. pesq., Cuba*, (15) : 26 p.  
La nasa antillana (The West Indian lobster trap). Fr

Reports experiments to test efficiency in the catch of *Panulirus argus* in Cuban waters. Describes the use and its historical development; gives data on yields.

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Pacific coast groundfish

CFA 14 (12) : 1. Subjects covered incl. history of major fisheries that harvest demersal fish off Pacific coast; geographic areas where these fisheries operate; major spp. of fish caught and size of catches; type of research activities; and managerial problems involved.

**Briggs, P. T.** (1962)

M

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The sport fisheries of Great South Bay and vicinity

The sport fisheries of Great South Bay and vicinity were studied from 1956 through 1960. Results show that catch was dominated by the fluke and the winter flounder. Together these two fish comprised about 90 per cent of the annual catch of all spp. combined. The open boat and charter boat fisheries were almost entirely dependent upon them. Bluefish ranked highest among the other spp. taken. Adult bluefish were most important to the surf fishery. Blackfish were taken in large quantities during the spring and again during fall. Surf fishery was almost entirely dependent upon striped bass and kingfish, in addition to adult bluefish. Kingfish, although usually the most frequently taken, did not appear to be fully exploited.

M

**Gdynia. Polish Chamber of Foreign Trade** (1962)

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*Pol. marit. News*, 5 (42) : 24 p.

Section on fishing contains articles on Polish fish landings in 1961, exports of fish and fish conserved and fishing news bulletin of activities and developments in Poland.

M

**Florida State. Board of Conservation** (1961)

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*Salt Wat. Fish. Newslett.*, 3 (3) : 6 p.

No 61-131me. Contains notes on larval shrimp, sea-trout, ecology of Florida Bay, Florida landings, fish behaviour, sport fish.

M

**Florida State. Board of Conservation** (1961)

62-05909

*Salt Wat. Fish. Newslett.*, 3 (4) : 5 p.

Contains notes on larval shrimp, sea-trout, ecology of Florida Bay, fish behaviour, and report of 6th International Game and Fish Conference.

M

**Morgans, J. F. C.** (1962)

62-05910

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A simple and cheap design of large reel for commercial bottom fishing in deep water

Gives brief description, ill. specifications with notes on the use of the reel for live fishing.

M

**Australia. CSIRO. Bureau of Census & Statistics** (1962)

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*Statist. Bull. Fish. Whal. Aust.*, 1960-61 (7) : 19 p.

Tables of catches—quantity and value—by spp. groups, processing, consumption of boats, equipment and persons engaged. Graphs of production by spp. and by states, 1957-59. In four parts: general fisheries—excluding pearl shell and *Trochus*—; pearl-shell and trochus shell; whaling; overseas trade.

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- Anon.** (1961) M  
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 A Soviet-built stern trawler  
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 WFA 13 (2) : 13. Naval architecture.
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 (Dimensions of bulwark scupper holes in fishing vessels and factory ships)  
 WFA 13 (2) : 13. Naval architecture.
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 An automatic method of counting fish echoes—1. The equipment—2.  
 Trials with the fish counter  
 WFA 13 (2) : 15. Consists of a 30 kc/s paper recording echo-sounder  
 (Kelvin Hughes MS 29), with a standard transducer which feeds signals to a  
 cathode ray (CRT) display unit. These signals are amplified in the usual  
 manner, and an output is taken from one plate of the CRT and passed to three  
 identical echo delay units. A square wave produced by the expanded time-  
 base corresponding to 7 fm. (13 m) depth is also passed to the delay units;  
 this square wave switches on the amplifier circuits in the echo delay units for  
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 The bait shrimp industry of the Gulf of Mexico
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 Japanese fisheries based in overseas areas



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- Garfield, M. J.** (1959)  
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High-seas fisheries of the U.S.S.R.
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Federal fishing vessel mortgage and loan insurance
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Fishing vessel construction differential subsidy
- General information about the fishing vessel construction differential subsidy program administered by the Secretary of the Interior.
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62-05931
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Survey report on Somalian fisheries and fish processing and the inherent expansion potentials—1. Fisheries and fish processing in Somalia—2. Suggestions and proposals on improvements and modernization of fisheries and fish processing
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*Caribb. J. Sci.*, 2 (1) : 55  
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- SFA 6 (4) 4574.
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- La pêche aux filets maillants dormants dans la région de Bol (Fishing with gill nets in the region of Bol)
- Short note on the characteristics of nets, yield and spp. caught in the Lake Tchad.

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F  
62-05940  
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Ministry of Information, Kaduna, N. Nigeria  
Tchad. *De*

35 mm, 181/2 min, sound, colour. Travelogue describes living conditions, local industries and some development projects at the Nigerian shore.

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*Nature, Lond.*, 189 : 229-30  
Bioassay of ciguatera toxin

WFA 13 (2) : 7. Food poisoning—miscellaneous fish.

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**Randall, J. E.** (1961)  
*Sea Frontiers*, 7 (3) : 130-9  
Ciguatera: tropical fish poisoning

WFA 13 (2) : 7. Food poisoning—miscellaneous fish.

F  
62-05943  
**Sarig, S.** (1961)  
*Bamidgeh*, 13 (3/4) : 61-70  
Fisheries and fish culture in Israel in 1960

The Israeli Fisheries' statistics of 1960 provide valuable information concerning the development of the fish culture industry, its position in the fishery economy and the consumption "per capita" of the pond-produced fish.

X  
62-05944  
**Walker, A. C.** (1961)  
*Ship and Boat Build.*, 14 (3) : 63-4  
Note on jet propulsion

WFA 13 (2) : 11. Fishing boats—propulsion.

X  
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**Van Pel, L.** (1961)  
*Visserijwereld*, 20 (51/52) : 27-9  
Het Koelen van vis en garnalen in tanks met zeewater (Cooling and keeping of fish and small shrimps in seawater)

WFA 13 (2) : 21. Handling and preparation of fishery products—aboard. Storage in refrigerated sea water.

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- California. Department of Fish & Game. Inland Fisheries Branch** (1962) F  
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 Provides information on pond management.
- Bhattacharyya, B. N.** (1962) F  
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- Krishna, D.** (1961) F  
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- Sinha, B. M.** (1961) F  
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- Film—Durden, J. V.** (d.u.) F  
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 16 mm, 28 min, sound, colour. Study of *Brachydanio rerio*. 62-06122
- Film—Mohd Afzal Khan** (d.u.) F  
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- Film—Issar, N. K.** (d.u.) F  
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 35 mm, 181/2 min, sound, b & w. 62-06124
- Zeisberger, E.** (1961) F  
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 (The relation between standard metabolism and weight of fishes). *En Ru*  
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*carassius* and *Perca fluviatilis*. 62-06125
- Hallan, M.** (1961) F  
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- Crawford, B.** (1960)  
Centerton, Arkansas Game and Fish Commission, mimeo, 16 p.  
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- NE 61-01978. Describes spawning pens, spawning containers, care, holding and selection of brood fish, how to delay spawning, how to distinguish the sexes, mating fish, preparing nests, spawning, culture ponds, feeding troughs, fry removal feeding.
- F  
62-06128
- Tang, Y.-A.** (1961)  
Mimeo, 6 p.  
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- Describes unsuccessful experiments with hormones to induce development of testes and suggests that a metabolic repressive factor is responsible for lack of development.
- F  
62-06129
- Van Oosten, J.** (1960)  
*Fish. Leaflet, Wash.*, (496) : 9 p.  
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- Brief summary of life history of muskellunge (*Esox masquinongy*), northern pike (*Esox lucius*), chain pickerel (*Esox niger*), grass pickerel (*Esox vermiculatus*) and redfin pickerel (*Esox americanus*).
- F  
62-06130
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*Bamidgeh*, 13 (3/4) : 57-60  
Monosex culture of carp
- This paper presents the results of a preliminary study in carp sexing. The possibilities of commercial utilization of monosex culture are examined.
- F  
62-06131
- Wohlfarth, G. & M. Lahman** (1961)  
*Bamidgeh*, 13 (3/4) : 74-5  
Transporting live carp in polyethylene bags
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- Gruber, R.** (1962)  
*Hydrobiologia*, 19 (3) : 225-42  
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- Ehrlich, S. & K. Jedinak** (1962) F  
62-06133  
*Hydrobiologia*, 19 (3) : 273-97  
 Nutria influence on a bog lake in northern Pomorze, Poland

Describes an attempt to revert the fen development on a "dying" lake choked under a floating plant mat through the use of *Myocastor coypus*. Describes improvement in fishing as a result.

- Hoffman, G. L.** (1961) F  
62-06134  
*Fish. Leafl., Wash.*, (508) : 2 p.  
 Whirling disease (Mixosporidia: *Mixosoma*) of trout

Brief summary of current knowledge of disease.

- Foster, A. O.** (1960)\* G  
62-06135  
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62-06136  
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Contains list of recent scientific publications for Caribbean area—incl. section on fish and fisheries—and articles incl. 62-05734; 62-05932; 62-06024.

- Senn, T. L., J. A. Martin & D. F. Fox** (1961)\* M  
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*Amer. Veg. Grow.*, November  
 Gift from the sea

- Dees, L. T.** (1961) M  
62-06138  
*Fish. Leafl., Wash.*, (515) : 14 p.  
 United States Fish and Wildlife Service papers on physical and chemical oceanography

- Dees, L. T.** (1961) M  
62-06139  
*Fish. Leafl., Wash.*, (517) : 7 p.  
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- International Civil Aviation Organisation** (1961?)\* M  
62-06140  
 London, H.M.S.O.

Acts on the joint financing of the North Atlantic Ocean stations 1954 and 1960

- M  
62-06141
- U.K. Treaties, etc. (1961)\***  
*U.K. Treat. Ser.*, (113)

Whaling—Schedule to the International Whaling Convention, 1946. Revised to include the amendments that came into operation after the thirteenth meeting of the International Whaling Commission in London, 1961

- M  
62-06142
- Belgium. Laws, Statutes, etc. (1961)**  
*Monit. belge*, (294) : 9239-40

Arrêté royal concernant l'octroi d'une prime pour la démolition de bâtiments de pêche—29 novembre 1961 (Royal order relative to the granting of a bonus for the demolition of fishing craft—29 November 1961)

To encourage the use of newer vessels.

- M  
62-06143
- Belgium. Laws, Statutes, etc. (1962)**  
*Monit. belge*, (22) : 566-7

Arrêté royal du 11 janvier 1962 rendant obligatoire la décision du 8 décembre 1961 de la Commission paritaire nationale de la pêche maritime attribuant une allocation complémentaire de vacances pour l'année 1961 au personnel navigant de la pêche maritime (Royal order giving compulsory effect to the decision of 8 December 1961 of the national sea fisheries arbitration commission granting a supplementary period of holiday to seagoing fishermen to the year 1961.—11 January 1962)

- M  
62-06144
- Belgium. Laws, Statutes, etc. (1962)**  
*Monit. belge*, (27) : 754-5

Arrêté ministériel du 23 janvier 1962 établissant un droit spécial à l'importation de certains produits agricoles et alimentaires (Ministerial order establishing a special import duty on certain agricultural and food products.—23 January 1962)

In the case of fish meals and powders and forage preparations the special import duty is nil.

- M  
62-06145
- Belgium. Laws, Statutes, etc. (1962)**  
*Monit. belge*, (59) : 1881

Arrêté royal du 6 février 1962 modifiant l'arrêté royal du 1er mars 1958, portant organisation d'une aide financière pour encourager l'amélioration des installations et du matériel à bord des bateaux de pêche belges (Royal order amending the royal order of 1 March 1958 organizing financial assistance to encourage the improvement of equipment on board Belgian fishing vessels.—6 February 1962)

Replaces article 2 of the Royal order of 1 Mar. 1958 concerning modalities of financial assistance.



MISCELLANEOUS AND AUXILIARIES

M  
62-06146

**Belgium. Laws, Statutes, etc.** (1962)  
*Monit. belge*, (66) : 2159-61

Arrêté ministériel du 15 mars 1962 relatif au tarif des droits d'entrées  
(Ministerial order relative to the import duty tariff)

Includes tuna, shrimps and crabs, etc.

M  
62-06147

**Belgium. Laws, Statutes, etc.** (1962)  
*Monit. belge*, (77) : 2591

Convention internationale pour la réglementation du maillage des filets de pêche et des tailles limite des poissons et annexes, signées à Londres le 5 avril 1946. Amendements (Amendments to the International convention for the regulation of the meshes of fishing nets and the size limits of fish and annexes signed at London on 5 April 1946)

Amendments to articles 5 and 7 (2) and to annex 1. Insertion of annex 4.

M  
62-06148

**Belgium. Laws, Statutes, etc.** (1962)  
*Monit. belge*, (116) : 4145-7

Arrêté ministériel du 8 mai 1962 modifiant l'annexe à l'arrêté ministériel du 28 décembre 1961 suspendant l'obligation de produire une licence pour l'importation de certaines marchandises (Ministerial order amending the annex to ministerial order of 28 December 1961 suspending the import licence requirement for certain goods.—8 May 1962)

Includes various types of herring.

M  
62-06149

**Belgium. Laws, Statutes, etc.** (1962)  
*Monit. belge*, (116) : 4148-51

Arrêté ministériel du 8 mai 1962 modifiant l'annexe à l'arrêté ministériel du 24 février 1960 suspendant l'obligation de produire une licence pour l'exportation de certaines marchandises (Ministerial order amending annex 1 to the ministerial order of 24 February 1960 suspending the export licence requirement for certain goods.—8 May 1962)

Includes various types of herring.

M  
62-06150

**Canada. Laws, Statutes, etc.** (1961)  
*Statutes, Canada*, 9-10 Eliz. II, Vol. 1, Chap. 14 : 109

An act to amend the coastal fisheries protection act—29 March 1961

Inserts a new definition of "Canadian fishing vessels".

M  
62-06151

**Canada. Laws, Statutes, etc.** (1961)  
*Statutes, Canada*, 9-10 Eliz. II, Vol. 1, Chap. 23 : 149-55

An act to amend the fisheries act—1 June 1961

Numerous amendments in respect of offences and penalties, power of the governor in council to make regulations, seizure of vessels by fishery officers, disposal of forfeited vessels, application of the act to the high seas, etc.

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- M  
62-06152
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (3) : 148-51
- Statutory orders and regulations/62-40. Order in council P.C. 1962-96, pursuant to the customs act, relating to tariff treatment and reducing duties on certain goods.—25 January 1962

Includes frozen tuna loin for use in the manufacture of canned tuna. Applicable 1 Feb. 1962 to 31 Jan. 1964.

- M  
62-06153
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (3) : 156-9

Décrets, ordonnances et règlements statutaires/62-40. Décret C.P. 1962-96, en vertu de la loi sur les douanes, relatif au régime tarifaire et réduisant les droits sur certaines marchandises.—25 janvier 1962 (Statutory order and regulations/62-40. Order in council P.C. 1962-96, pursuant to the customs act, relating to tariff treatment and reducing duties on certain goods.—25 January 1962)

*Fr* 62-06152.

- M  
62-06154
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (4) : 169

SOR/62-51. Order in council P.C. 1962-162 amending the British Columbia fishery regulations, made under the fisheries act.—8 February 1962

For the year 1962 only, herring may be fished for, caught or killed by means of purseseines or trawl-nets in that part of the west coast of Vancouver Island sub-district lying between Esteban Point and Cape Scott until 17 Feb.

- M  
62-06155
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (4) : 175

DORS/62-51. Décret C.P. 1962-162 modifiant le règlement de pêche de la Colombie Britannique, en vertu de la loi sur les pêcheries.—8 février 1962 (SOR/62-51. Order in council P.C. 1962-162 amending the British Columbia fishery regulations, made under the fisheries act.—8 February 1962)

*Fr* 62-06154.

- M  
62-06156
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (4) : 187

SOR/62-59. Order in council P.C. 1962-198 amending the seal protection regulations, made under the fisheries act.—15 February 1962

Relates to the use of helicopter and aircraft in sealing.

M  
62-06157

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (4) : 193

DORS/62-59. Décret C.P. 1962-198 modifiant le règlement pour la protection des phoques, en vertu de la loi sur les pêcheries.—15 février 1962 (SOR/62-59. Order in council P.C. 1962-198 amending the seal protection regulations, made under the fisheries act.—15 February 1962)

*Fr* 62-06156.

M  
62-06158

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (4) : 268

SOR/62-73. Order in council P.C. 1962-235 amending the British Columbia fishery regulations, made under the fisheries act.—22 February 1962

Fixes herring bag limit for the northern sub-district of district No. 2.

M  
62-06159

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (4) : 274

DORS/62-73. Décret C.P. 1962-235 modifiant le règlement de pêche de la Colombie-Britannique, en vertu de la loi sur les pêcheries.—22 février 1962 (SOR/62-73. Order in council P.C. 1962-235 amending the British Columbia fishery regulations, made under the fisheries act.—22 February 1962)

*Fr* 62-06158.

M  
62-06160

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (5) : 278

SOR/62-80. Order in council P.C. 1962-278 amending the large fishing vessel inspection regulations, made under the Canada shipping act.—1 March 1962

Concerns exemptions and special requirements.

M  
62-06161

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (5) : 284

DORS/62-80. Décret C.P. 1962-278 modifiant le règlement sur l'inspection des grands bateaux de pêche, en vertu de la loi sur la marine marchande du Canada.—1er mars 1962 (SOR/62-80. Order in council P.C. 1962-278 amending the large fishing vessel inspection regulations, made under the Canada shipping act.—1 March 1962)

*Fr* 62-06160.

M  
62-06162

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (6) : 294

SOR/62-89. Order in council P.C. 1962-299 relating to distribution of grant 1961-62, pursuant to the deep sea fisheries act.—8 March 1962

**Canada. Laws, Statutes, etc.** (1962) M  
62-06163  
*Can. Gazette (II)*, (6) : 300

DORS/62-89. Décret C.P. 1962-299, en vertu de la loi sur les pêches maritimes, concernant la distribution de la subvention pour l'année 1961-1962.—1er mars 1962 (SOR/62-89. Order in council P.C. 1962-299 relating to distribution of grant 1961-62, pursuant to the deep sea fisheries act.—8 March 1962)

*Fr* 62-06162.

**Chile. Laws, Statutes, etc.** (1961) M  
62-06164  
*Diario ofic., Santiago*, (24,994) : 1344-6

Decreto numero 361 promulgando el tratado antártico suscrito en Washington, el 1° de diciembre de 1959—24 de junio de 1961 (Decree No. 361, promulgating the antarctic treaty signed in Washington on 1 December 1959—24 June 1961)

Provides *inter alia* for protection of wild life and marine resources in the antarctic and prohibits the disposal of radio-active waste.

**Chile. Laws, Statutes, etc.** (1961) M  
62-06165  
*Diario ofic., Santiago*, (25,055) : 1818-9

Decreto número 760 prohibiendo la instalación de nuevas plantas de harina de pescado en la zona que indica, como asimismo el empleo de la merluza en las plantas ya autorizadas—29 de agosto de 1961 (Decree No. 760, prohibiting the establishment of new fishmeal plants in the zone indicated, and the use of hake in plants already licensed—29 August 1961)

Prohibition may be waived if applicants demonstrate that they do not intend to use hake. Zone is from 30° to 39° Lat. S.

**Chile. Laws, Statutes, etc.** (1961) M  
62-06166  
*Diario ofic., Santiago*, (25,051) : 1792

Decreto número 790 estableciendo veda en las zonas que indica, para la recolección de las algas marinas que señala—7 de septiembre de 1961 (Decree No. 790, establishing a closed season on certain marine algae in stated zones—7 September 1961)

Between 1 May and 31 Oct. in each year.

**Chile. Laws, Statutes, etc.** (1962) M  
62-06167  
*Diario ofic., Santiago*, (25,184) : 436

Decreto núm. 107. Suspende la prohibición de extraer ostiones en la zona de Arica por el tiempo que señala.—1 de febrero de 1962 (Decree No. 107 suspending the prohibition on catching oysters in the Arica area for the time specified.—1 February 1962)

As a result of the recuperation of the oyster beds, the effects of Decree No. 87 of 15 Jan. 1958 are suspended for the port of Arica from 1 May to 31 Dec. 1962.

M

**Chile. Laws, Statutes, etc. (1962)** 62-06168  
*Diario ofic., Santiago, (25,192) : 486*

Decreto núm. 125. Reglamenta la captura de centolla en la provincia de Magallanes.—13 de febrero de 1962 (Decree No. 125 regulating the catching of centolla *Lithodes antarcticus* (Jacquinot) in the province of Magallanes.—13 February 1962)

To preserve the spp. nets may not after 15 Oct. be used at less than 15 fathoms depth in this type of fishing operation.

M

**Chile. Laws, Statutes, etc. (1962)** 62-06169  
*Diario ofic., Santiago, (25,243) : 966*

Decreto núm. 178 por el que se autoriza a la Sociedad Industrial Pesquera Vitor Limitada para desarrollar actividades pesqueras que indica.—20 de marzo de 1962 (Decree No. 178 authorizing the Sociedad Industrial Pesquera Vitor Limitada (The Vitor industrial fishing company Ltd) to carry out the fishing activities indicated.—20 March 1962)

Permits the company concerned to engage in fishing activities in the harbour of Arica and to establish a fish meal and oil processing plant at Caleta Vitor with a capacity of 800 tons of raw material daily.

M

**Costa Rica. Laws, Statutes, etc. (1961)** 62-06170  
*Gaceta, San José, (175) : 2835*

Decreto No. 8 modificando el artículo 1° del decreto ejecutivo No. 14 de 17 de octubre de 1958—24 de julio de 1961 (Executive decree no. 8, amending art. 1 of executive decree No. 14 of 17 October 1958—24 July 1961)

Prohibits trawl fishing in part of Nicoya Gulf; arts. 2 and 3 of said decree are abrogated.

M

**Germany. Federal Republic. Laws, Statutes, etc. (1961)** 62-06171  
*BundesgesBl., Bonn, 1 (94) : 2008*

Verordnung zur Änderung der Konservierungsstoff-Verordnung—19 Dezember 1961 (Order amending the preservatives ordinance—19 December 1961)

The ordinance of 19 December 1959 is amended in respect of marinated fish and mussels, non-sterilized shrimp preparations, etc.

M

**Germany. Federal Republic. Laws, Statutes, etc. (1962)** 62-06172  
*MinistBl. Germ. fed. Rep., (10) : 126-7*

Richtlinien für die Gewährung von Abwrackhilfen an Unternehmen der Seefischerei. Vom 7. Mai 1962 (Rules for the granting to sea fishing enterprises of subsidies for the breaking up of ships.—7 May 1962)

In order to relieve the Federal Republic of outmoded fishing craft, and to promote the profitableness of enterprises.

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- Germany. Eastern. Laws, Statutes, etc.** (1962) 62-06173  
*GesBlatt dtsh. demokrat. Rep.* (3), (6) : 66-74  
 Anordnung Nr. 165 über Deutschen Demokratischen Republik-Standards.  
 Vom 19. Februar 1962 (Order No. 165 relating to standards of the German  
 Democratic Republic.—19 February 1962)
- Covers, *inter alia*, fresh sea fish. The text of the standard is not included.
- M
- Guadeloupe. Laws, Statutes, etc.** (1962) 62-06174  
*Rec. Actes adm., Guadeloupe*, (15) : 225-6  
 Arrêté n. 62-877 du 14 avril 1962 modifiant l'arrêté n. 62-172, du 24 janvier  
 1962, portant réglementation des prix des poissons et crustacés dans le  
 département de la Guadeloupe (Order No. 62-877 amending order No. 62-172 of  
 24 January 1962, regulating the price of fish and Crustacea in the Guadeloupe  
 Department.—14 April 1962)
- Miscellaneous amendments.
- M
- Guatemala. Laws, Statutes, etc.** (1961) 62-06175  
*Guatemalteco*, (11) : 105-6  
 Decreto No. 1460 aprobando el convenio No. 112 adoptado por la OIT  
 sobre la edad mínima de admisión al trabajo de los pescadores—22 de junio de  
 1961 (Legislative decree No. 1460, ratifying (ILO) convention No. 112,  
 relating to the minimum age of fishermen—22 June 1961)
- Convention adopted at Geneva on 19 June 1959.
- M
- Guatemala. Laws, Statutes, etc.** (1961) 62-06176  
*Guatemalteco*, (12) : 121-2  
 Decreto No. 1461 aprobando el convenio No. 114 adoptado por la OIT  
 sobre el contrato de enrolamiento de los pescadores—22 de junio de 1961  
 (Legislative decree No. 1461, ratifying (ILO) convention No. 114, relating to  
 mustering contract of fishermen—22 June 1961)
- Convention adopted at Geneva on 19 June 1959.
- M
- Guatemala. Laws, Statutes, etc.** (1961) 62-06177  
*Guatemalteco*, (19) : 201-2  
 Decreto No. 1463 aprobando el convenio No. 113 adoptado por la OIT sobre  
 el examen médico de los pescadores—22 de junio de 1961 (Legislative decree  
 No. 1463, ratifying (ILO) convention No. 113, relating to the medical  
 examination of fishermen—22 June 1961)
- Convention adopted at Geneva on 19 Jun. 1959.
- M
- Ireland. Laws, Statutes, etc.** (1962) 62-06178  
*Stat. Instr., Ire.*, (104) : 4 p.  
 Oil pollution of the sea act, 1956 (extension of prohibited zones) order,  
 1961.—25 May 1961
- Prohibited zones extended so as to include so much of the Atlantic Ocean as  
 lies within 100 miles from the coast of Canada.

M  
62-06179

**Italy. Laws, Statutes, etc. (1962)**  
*Gazz. Uff., Repub. ital.*, (75) : 1362-74  
 Legge 8 dicembre 1961, n. 1658. Adesione alla convenzione sul mare territoriale e la zona contigua e alla convenzione sull'alto mare, adottate a Ginevra il 29 aprile 1958 e loro esecuzione (Act No. 1658: Adherence to the convention on territorial sea and the contiguous zone and to the convention on the high seas, adopted at Geneva on 29 April 1958, and execution thereof.—8 December 1961)

M  
62-06180

**Italy. Laws, Statutes, etc. (1962)**  
*Gazz. Uff., Repub. ital.*, (76) : 1394  
 Decreto ministeriale 16 marzo 1962 relativo alla determinazione dei contingenti tariffari per lo stoccafisso, il baccalà e i filetti di stoccafisso e baccalà, ammessi in esenzione daziaria per il periodo dal 1° gennaio al 31 dicembre 1962 (Ministerial decree fixing quotas for stock- and cod-fish, cod- and stock-fish fillets, which may be imported duty-free from 1 January to 31 December 1962.—16 March 1962)

Concerns imports from countries outside the European economic community.

M  
62-06181

**Kerala. Laws, Statutes, etc. (1961)**  
*Kerala Gaz.*, (46) : 18047  
 G.O.MS. No. 1136/Agri. Rules for the grant of subsidies to fishermen co-operative societies—8 November 1961

A subsidy of 25% of the actual cost of fishing craft may be granted to any fishermen co-operative society, on the craft purchased or manufactured by the members of the societies.

M  
62-06182

**Kerala. Laws, Statutes, etc. (1961)**  
*Kerala Gaz.*, (47) : 18404  
 G.O.MS. No. 1163/61/Agri: fisheries education scheme—16 November 1961

Financial assistance to students belonging to fishermen's communities for: (i) higher education; (ii) training in fisheries subjects; (iii) departmental—fisheries—staff sent for training.

M  
62-06183

**Kerala. Laws, Statutes, etc. (1961)**  
*Kerala Gaz.*, (48) : 2723  
 (Planning) order G.O.MS. 1202/61/Agri. relative to inclusion of a scheme in the third five year plan for housing and colonisation for fishermen—30 November 1961

Provides for the free distribution of developed house sites, building materials, etc.

- M  
62-06184
- Kerala. Laws, Statutes, etc.** (1961)  
*Kerala Gaz.*, (51) : 2869-70  
(Planning) order G.O.MS. 1223/61/Agri. relating to rules for the supply of modern fishing equipments to fishermen—6 December 1961

Under the third five-year plan a scheme has been approved to supply nylon twine and floats and hooks at subsidized cost.

- M  
62-06185
- Kerala. Laws, Statutes, etc.** (1962)  
*Kerala Gaz.*, (14) : 4914  
G.O.MS. No. 344/62/Agri. Rule for the supply of Pablo Boats on subsidy and hire purchase system.—14 March 1962

To groups of fishermen or fishermen cooperative societies, giving preference to those who are trained in mechanized fishing operation in the departmental fishermen training centres of the State.

- M  
62-06186
- Kerala. Laws, Statutes, etc.** (1962)  
*Kerala Gaz.*, (78) : 6 p.

The general sales tax (amendment) act, 1962: an act further to amend the general sales tax act, 1125.—31 March 1962

Includes, *inter alia*, dried fish.

- M  
62-06187
- Luxemburg. Laws, Statutes, etc.** (1962)  
*Mém. Grand-Duché Luxemb.*, A (14) : 201-3

Règlement ministériel du 20 mars 1962 au tarif des droits d'entrée (Ministerial regulation relative to the import duty tariff.—20 March 1962)

Exempts from import duty, *inter alia*, whale oil.

- M  
62-06188
- Luxemburg. Laws, Statutes, etc.** (1962)  
*Mém. Grand-Duché Luxemb.*, A (14) : 207-9

Règlement ministériel du 30 mars 1962 modifiant l'annexe du règlement ministériel di 1er janvier 1962 suspendant l'obligation de produire une licence pour l'importation de certaines marchandises (Ministerial regulation amending the annex to the ministerial regulation of 1 January 1962 suspending the import licence requirement for certain goods.—30 March 1962)

Also applies to smoked herrings of various kinds.

- M  
62-06189
- Luxemburg. Laws, Statutes, etc.** (1962)  
*Mém. Grand-Duché Luxemb.*, A (14) : 209-12

Règlement ministériel du 30 mars 1962 modifiant le règlement ministériel du 1er janvier 1962 suspendant l'obligation de produire une licence pour l'exportation de certaines marchandises (Ministerial regulation amending the ministerial regulation of 1 January 1962 suspending the export licence requirement for certain goods.—30 March 1962)

Applies to smoked herrings of various kinds.



- Madagascar. Laws, Statutes, etc. (1961)** M  
62-06190  
*J. off. Répub. malgache*, (200) : 2230  
 Décret n° 61-656 portant création et composition d'un comité national de recherche océanographique—7 décembre 1961 (Decree No. 61-656 relative to the establishment and composition of the national oceanographic research committee—7 December 1961)

- Madagascar. Laws, Statutes, etc. (1962)** M  
62-06191  
*J. off. Répub. malgache*, (210) : 304  
 Additif N° 62-072 au décret n° 61-656 du 7 décembre 1961, portant création du comité national de recherche océanographique.—14 février 1962 (Addendum No. 62-072 to decree No. 61-656 of 7 December 1961 relative to the establishment of the National Oceanographic Committee.—14 February 1962)

Ci 62-06190. In respect of composition of said committee.

- Mexico. Laws, Statutes, etc. (1961)** M  
62-06192  
*Diario ofic., Méx.*, (25) : 2-3  
 Declaratoria general número 47 de exención de impuestos para la fabricación de harina de pescado—16 de junio de 1961 (General declaration No. 47, concerning tax exemptions for the manufacture of fish meal—16 June 1961)

With a view to encouraging production of feedstuffs.

- Mexico. Laws, Statutes, etc. (1961)** M  
62-06193  
*Diario ofic., Méx.*, (45) : 1-3  
 Convenio relativo a la edad minima de admisión al trabajo de los pescadores, adoptado por la O.I.T., en Ginebra, Suiza—18 de septiembre de 1961 (Convention relating to the minimum age of fishermen, adopted by the ILO in Geneva, Switzerland—18 September 1961)

Ratification of the convention adopted at Geneva on 19 June 1959.

- Niger, Republic of. Laws, Statutes, etc. (1962)** M  
62-06194  
*J. off. Niger*, (4) : 55-6  
 Décret n° 62-043 PRN, du 14 février 1962, portant ratification d'un accord commercial entre le gouvernement de la République du Niger et le gouvernement de la République Populaire de Pologne (Decree No. 62-043 PRN, ratifying the trade agreement between the governments of the Republic of the Niger and the People's Republic of Poland.—14 February 1962)

Imports include fish preserves.

- Norway. Laws, Statutes, etc.** (1960) M  
62-06195  
*Overensk. Fremm. Stater*, (1) : 72-4

Skrivelse om endring av den Internasjonale Overenskomst om Fastleggelse av Maskevidden i Fiskenøter og Minstemål for Fisk av 5. april 1946—10 november 1960 (Notification relating to the amendment of the International Convention for the Regulation of Meshes of Fishing Nets and the Size Limits of Fish, of 5 April 1946—10 November 1960). *No*

Incorporates the amendments to articles 6 and 7 adopted by the Permanent Commission at London, in May 1960.

- Norway. Laws, Statutes, etc.** (1961) M  
62-06196  
*Norsk Lovtid.*, (22) : 632

Skriv om heving av oppsynet under vårtorskefisket i Finnmark—12. juni 1961 (Notification of the Ministry of Fisheries relating to the closed season on cod in Finnmark—12 June 1961). *No*

Closed season starts 24 Jun. 1961.

- Norway. Laws, Statutes, etc.** (1961) M  
62-06197  
*Norsk Lovtid.*, (26) : 744-5

Kongelig resolusjon om forbud mot fiske med andre redskaper enn line, handsnøre og garn i Andenes, Vesterålen, Grimsbakken og Fugløybanken—18. august 1961 (Royal resolution prohibiting fishing with means other than lines, handlines and handnets in Andenes, Vesterålen, Grimsbakken and Fugløybanken—18 August 1961). *No*

In respect of herring and sprat fishing.

- Norway. Laws, Statutes, etc.** (1961) M  
62-06198  
*Norsk Lovtid.*, (26) : 745

Kongelig resolusjon om adgang for britiske fiskefartøyer til å drive fiske innenfor den norske fiskerigrense—18. august 1961 (Royal resolution authorizing fishing by British craft in Norwegian territorial waters—18 August 1961). *No*

Grants permission to British craft to fish between 6 and 12 miles off the Norwegian coast up to 31 Oct. 1970.

- Norway. Laws, Statutes, etc.** (1961) M  
62-06199  
*Norsk Lovtid.*, (26) : 745-6

Kongelig resolusjon om bestem. om kontrol med norsk og britisk fiske unenfor Norges kyst—18. august 1961 (Royal resolution prescribing measures for the control of Norwegian and British fishing off the Norwegian coast—18 August 1961). *No*

Refers to the application of the Anglo-Norwegian fisheries agreement of 17 Nov. 1960.

M

**Norway. Laws, Statutes, etc. (1962)**

62-06200

*Norsk Lovtid.*, (1) : 11

Resolusjon den 5. januar 1962 om at kongelig resolusjon av 15. april 1955 om fredning av brisling og nedlegging av brisling og småsild oppheves (Resolution revoking the resolution of 14 April 1955 concerning the protection of sprat and the canning of sprat and small herring.—5 January 1962)

M

**Norway. Laws, Statutes, etc. (1962)**

62-06201

*Norsk Lovtid.*, (4) : 45

Resolusjon om endring av § 11, første ledd, i Kromprinsregentens resolusjon av 22. desember 1955 om bestemmelser om saltvannsfiskeriene.—26. januar 1962 (Resolution amending art. 1, para 1 of the Regent's resolution of 22 December 1955, containing provisions governing sea fishing.—26 January 1962)

In respect of minimum sizes, use of certain materials for nets, etc.

M

**Peru. Laws, Statutes, etc. (1961)**

62-06202

*Peruano*, (6104) : 2

Decreto supremo No. 25 por el que se prohíbe a los centros industriales arrojar gases a la atmósfera.—23 de agosto de 1961 (Supreme decree No. 25 prohibiting industrial centres from emitting waste gases into the atmosphere.—23 August 1961)

Applies, *inter alia*, to fish meal processing plants.

M

**Peru. Laws, Statutes, etc. (1961)**

62-06203

*Peruano*, (6112) : 1

Decreto supremo No. 24 aprobando el reglamento sanitario para el transporte de materia prima a las fábricas de harina de pescado.—22 de agosto de 1961 (Supreme decree No. 24 approving health regulations for the transport of raw material to fish meal factories—22 August 1961)

Detailed regulations concerning transport vehicles.

M

**Peru. Laws, Statutes, etc. (1961)**

62-06204

*Peruano*, (6124) : 2

Resolución suprema No. 401 autorizando el departamento de tecnología pesquera para hacer los análisis de las harinas y aceites de origen marino que se exporten.—12 de septiembre de 1961 (Supreme resolution No. 401 making the Department of Fish Technology responsible for the analysis of meals and oils of marine origin intended for export)

M

**Peru. Laws, Statutes, etc. (1961)**

62-06205

*Peruano*, (6207) : 1

Ley N° 13825 por la que se modifican los arts. 1° de la ley 9506 y 1° y 3° de la ley 9466, sobre impuestos a la exportación de la harina de pescado.—30 de diciembre de 1961 (Act. No. 13825 amending article 1 of act No. 9506 and articles 1 and 3 of act No. 9466 relative to export taxes on fish meal.—30 December 1961)

Fish meal and whale meal pay on export 14% on the difference between the f.o.b. price at Peruvian port and the base price established in accordance with existing legislation. The amount of the supplementary tax referred to in act No. 9466 is fixed at 15%.

M

**Peru. Laws, Statutes, etc. (1961)**

62-06206

*Peruano*, (6215) : 2

Decreto supremo N° 22 por el que se prorroga hasta el 31 de marzo de 1964 el decreto supremo N° 11 sobre caza de lobos marinos.—27 de diciembre de 1961 (Supreme decree No. 22 extending supreme decree on the hunting of seals to 31 March 1964.—27 December 1961)

Extends the prohibition to hunt seals (*Otaria flavescens* and *Arctocephalus australis*) from 1 Jan. 1962 to 31 Mar. 1964 in order to protect them from possible extinction.

M

**Peru. Laws, Statutes, etc. (1961)**

62-06207

*Peruano*, (6226) : 2

Resolución ministerial revalidando una licencia para una fábrica de harina de pescado en Végueta.—13 de diciembre de 1961 (Ministerial resolution revalidating a licence for a fish meal processing plant at Végueta.—13 December 1961)

M

**Peru. Laws, Statutes, etc. (1962)**

62-06208

*Peruano*, (6224) : 1

Resolución suprema No. DC-12 estableciendo una comisión para estudiar un régimen de previsión y asistencia social a los pescadores del litoral.—9 de enero de 1962 (Supreme resolution No. DC-12 establishing a commission to study a social security and assistance regime for coastal fishermen.—9 January 1962)

Gives composition of said commission.

M

**Peru. Laws, Statutes, etc. (1962)**

62-06209

*Peruano*, (6229) : 1

Resolución directorial No. 091 estableciendo que las fábricas de harina de pescado deberán paralizar sus actividades a partir del 1° de febrero.—29 de enero de 1962 (Directorial resolution No. 091 listing the fish meal processing plants that close with effect from 1 February.—29 January 1962)

Ci 62-06202. An extensive list of such plants, that are closed for failure to align their production equipment with the provisions of supreme decree No. 25 of 23 Aug. 1961 is given.

**Peru. Laws, Statutes, etc. (1962)** M  
62-06210  
*Peruano*, (6232) : 2

Resolución ministerial N° 101 por la que se autoriza la instalación de una fábrica de harina de pescado en Chancay.—12 de enero de 1962 (Ministerial resolution No. 101 authorizing the establishment of a fish meal processing plant at Chancay.—12 January 1962)

**Senegal. Laws, Statutes, etc. (1959)** M  
62-06211  
*Ann. afr. Sénégal*, (2) : 364

Décret N° 59-170 bis S.G. promulguant la loi sénégalaise n° 59-011 portant création du Service de l'Océanographie et des Pêches Maritimes.—30 juin 1959 (Decree No. 59-170 bis S.G. promulgating Senegal act no. 59-011 establishing the service for oceanography and sea fisheries.—30 June 1959)

**South Africa Republic. Laws, Statutes, etc.** M  
62-06212  
*Govt Gaz. S. Afr.*, (107) : 7-8

Goewermentskenningsgewing No. 934: wet op seevisserye, 1940 (wet No. 10 van 1940)—Wysiging van regulasies.—3 November 1961 (Government notice No. 934 relating to amendment of regulations, made under the sea fisheries act, 1940 (act No. 10 of 1940).—3 November 1961). *Af*

Amends regulations published in *Govt Gaz.*, (1353), of 1 Jul. 1955, as amended, in respect of licences, seaworthiness of ships, etc.

**South Africa Republic. Statutes, etc. (1961)** M  
62-06213  
*Govt Gaz. S. Afr.*, (133) : 41-6

Goewermentskenningsgewing No. 1214: wet op seevisserye, 1940—Wysiging van regulasies.—15 Desember 1961 (Government notice No. 1214 relating to amendment of the regulations made under the sea fisheries act 1940.—15 December 1961). *Af*

Extensive regulations amending regulations published in *Govt Gaz.*, (1353), of 1 Jul. 1955, in respect of collection of crabs, oysters, perlemoen, mussels and other spp. of bait.

**South Africa Republic. Laws, Statutes, etc. (1961)** M  
62-06214  
*Govt Gaz. S. Afr.*, (133) : 46

Goewermentskenningsgewing No. 1221: wet op seevisserye, 1940 (wet No. 10 van 1940)—Wysiging van regulasies—15 Desember 1961 (Government notice No. 1221 relating to amendment of the regulations made under the sea fisheries act, 1940 (act No. 10 of 1940).—15 December 1961). *Af*

Amends regulations published in *Govt Gaz.*, (1353), of 1 Jul. 1955, as subsequently amended. Regulates the capture of rock lobster (*Jasus lalandii*).

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- M  
62-06215
- U.S. Laws, Statutes, etc.** (1961)  
*Fed. Reg. U.S.*, (240) : 11979-81  
Code of federal regulations, title 50—Chap. II—Subchap. G.—Part 270:  
United States standards for grades of frozen fried scallops—8 December 1961

Product description and grades, factors of quality, definitions and methods of analysis, etc.

- M  
62-06216
- Western Australia. Laws, Statutes, etc.** (1962)  
*Govt Gaz. W. Aust.*, (30) : 950  
F.D. 151/53, Ex. Co. No. 738. Proclamation made under the fisheries act, 1905-1961.—12 April 1962

Prohibits the taking of fish by means of fishing nets in the specified waters (part of Geographe Bay), from 1 May 1962 to 30 Apr. 1967.

- M  
62-06217
- Western Australia. Laws, Statutes, etc.** (1962)  
*Govt Gaz. W. Aust.*, (30) : 950  
F.D. 38/44, Ex. Co. No. 739. Proclamation made under the fisheries act, 1905-1961.—12 April 1962

Prescribes mesh size, use, etc., of the following types of nets: set, hauling, whiting set, whiting hauling and garfish. Repeals proclamation of 22 Aug. 1956 published in G.G. No. 73 of 31 Aug. 1956.

- MF  
62-06218
- Dees, L. T.** (1961)  
*Fish. Leafl., Wash.*, (518) : 8 p.  
A list of the circulars of the United States Fish and Wildlife Service

- MF  
62-06219
- Dees, L. T.** (1961)  
*Fish. Leafl., Wash.*, (514) : 35 p.  
List of special scientific report (Nos. 1-67) and special scientific report—fisheries (Nos. 1-369)

- MF  
62-06220
- Dees, L. T.** (1961)  
*Fish. Leafl., Wash.*, (519) : 4 p.  
List of research reports of the United States Fish and Wildlife Service

- MF  
62-06221
- Montilla, J. R.** (1961)  
*Fish. Gaz., Quezon City*, 5 (12) : 6, 46  
On the necessity of conserving our fishery resources

- Algeria. Laws, Statutes, etc. (1961)** FM  
62-06222  
*Rec. Acts adm., Algeria, (4) : 82*  
 Arrêté n° 5107 TP/TV 1 du 27 décembre 1961 modifiant l'arrêté n° 4239 TP/TV 1 du 17 octobre 1961 relatif à l'importation d'huîtres de catégories supérieures en provenance de métropole (Order No. 5107 TP/TV 1 amending order No. 4239 TP/TV 1 of 17 October 1961 relative to the importation of high-grade oysters from metropolitan France—27 December 1961)

In individual parcels of maximum 20 kg each.

- Argentina. Laws, Statutes, etc. (1961)** MF  
62-06223  
*Bol. ofic., Argentina (19.762) : 3*  
 Decreto No. 1.288 por el que se deroga el decreto No. 7.258/59, por el cual se creará el Consejo Nacional de Pesquerías.—9 de diciembre de 1961 (Decree No. 1.288 rescinding Decree No. 7.258/59 which established the National Fisheries Council.—9 December 1961)

Ci 60-1298. Abolishes the National Fisheries Council and transfers its responsibilities to the General Directorate of Fisheries and Conservation of Fauna.

- Belgium. Laws, Statutes, etc. (1962)** MF  
62-06224  
*Monit. belge, (28) : 773*  
 Arrêté ministériel du 22 janvier 1962 interdisant temporairement toute pêche dans certaines parties de l'Ourthe (Ministerial order temporarily prohibiting all fishing in certain parts of the Ourthe.—22 January 1962)

Up to Jun. 1963, with a view to protecting certain spawning-grounds.

- Belgium. Laws, Statutes, etc. (1962)** MF  
62-06225  
*Monit. belge, (72) : 2379*  
 Arrêté ministériel du 15 mars 1962 interdisant toute pêche dans l'ancien bras de l'Yser (Ministerial order prohibiting all fishing on a former arm of the Yser.—15 March 1962)

Forbids fishing from the second Sunday of Jul. 1962 to the second Sunday of Jul. 1963.

- Belgium. Laws, Statutes, etc. (1962)** MF  
62-06226  
*Monit. belge, (75) : 2475-99*  
 Arrêté royal du 22 mars 1962 relatif au tarif des droits d'entrée (Royal order relative to the import duty tariff.—22 March 1962)

Includes fish, shell-fish, etc. In respect of Benelux countries only.

- MF  
62-06227
- Belgium. Laws, Statutes, etc.** (1962)  
*Monit. belge*, (111) : 3935-6  
Arrêté ministériel du 20 avril 1962 interdisant temporairement toute pêche dans l'ancien bras de la Meuse dit Le Hemlot (Ministerial order temporarily prohibiting all fishing in the former branch of the Meuse known as Le Hemlot.—20 April 1962)
- For the protection of a spawning ground. Prohibition valid until Jun. 1963.
- MF  
62-06228
- Belgium. Laws, Statutes, etc.** (1962)  
*Monit. belge*, (128) : 4668-70  
Arrêté royal du 9 mai 1962 rendant obligatoire la décision du 21 décembre 1961 de la Commission paritaire nationale de l'industrie alimentaire concernant la classification des travailleurs de l'industrie du poisson (Royal order giving compulsory effect to the decision of 21 December 1961 of the National arbitration commission for the food industry relative to the classification of workers in the fish industry.—9 May 1962)
- Classification into six categories.
- MF  
62-06229
- Canada. Laws, Statutes, etc.** (1960)  
*Statutes, Canada*, 9-10 Eliz. II, Vol. 1, Chap. 6 : 37-43  
Technical and vocational training assistance act: an act respecting technical and vocational training assistance—20 December 1960
- Covers also fishing. Provides for the payment of contributions by Canada to the provinces.
- MF  
62-06230
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (3) : 155  
SOR/62-44. Order in council P.C. 1962-126 amending the fish inspection regulations, made under the fish inspection act.—31 January 1962
- Concerns packing of pickled salmon, trout and char.
- MF  
62-06231
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (3) : 163  
DORS/62-44. Décret C.P. 1962-126 modifiant le règlement sur l'inspection du poisson, en vertu de la loi sur l'inspection du poisson.—31 janvier 1962 (SOR/62-44. Order in council P.C. 1962-126 amending the fish inspection regulations, made under the fish inspection act.—31 January 1962)
- Fr* 62-06230.
- MF  
62-06232
- Canada. Laws, Statutes, etc.** (1962)  
*Can. Gazette (II)*, (4) : 170-7  
SOR/65-52. Order in council P.C. 1962-163 amending the Ontario fishery regulations, made under the fisheries act.—8 February 1962
- Numerous amendments concerning fishing methods, licences, closed areas, etc.



MISCELLANEOUS AND AUXILIARIES

MF  
62-06233

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (4) : 176-83

DORS/62-52. Décret C.P. 1962-163 modifiant le règlement de pêche de l'Ontario, selon la loi sur les pêcheries.—8 février 1962 (SOR/62-52. Order in council P.C. 1962-163 amending the Ontario fishery regulations, made under the fisheries act.—8 February 1962)

*Fr* 62-06232.

MF  
62-06234

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (5) : 279

SOR/62-81. Order in council P.C. 1962-279 amending the small fishing vessel inspection regulations, made under the Canada shipping act.—1 March 1962

Concerns exemptions and special requirements.

MF  
62-06235

**Canada. Laws, Statutes, etc. (1962)**  
*Can. Gazette (II)*, (5) : 285

DORS/62-81. Décret C.P. 1962-279 modifiant le règlement sur l'inspection des petits bateaux de pêche, en vertu de la loi sur la marine marchande du Canada.—1er mars 1962 (SOR/62-81. Order in council P.C. 1962-279 amending the small fishing vessel inspection regulations, made under the Canada shipping act.—1 March 1962)

*Fr* 62-06234.

MF  
62-06236

**Chile. Laws, Statutes, etc. (1962)**  
*Diario ofic., Santiago*, (25,195) : 508

Decreto núm. 2.233. Deroga los decretos números 8.399 y 22.010 de 1961, y establece normas para la importación de mercaderías usadas y falladas.—5 de marzo de 1962 (Decree No. 2,233 rescinding decrees Nos. 8.399 and 22.010 of 1961 laying down rules for the import of used and faulty merchandise.—5 March 1962)

Includes fishing vessels.

MF  
62-06237

**Guadeloupe. Laws, Statutes, etc. (1962)**  
*Rec. Actes adm. Guadeloupe*, (17) : 242-5

Arrêté de la préfecture n. 62-918 du 24 avril 1962, portant fixation des attributions des services et bureaux de la préfecture (Order of the prefecture No. 62-918 laying down the functions of the various departments and offices of the prefecture.—24 April 1962)

The agriculture and fisheries office is part of the general secretariat for economic affairs.

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- MF  
62-06238
- Germany, Eastern. Laws, Statutes, etc.** (1962)  
*GesBlatt dtsh. demokrat. Rep.* (3), (4) : 38-40  
Anordnung Nr. 160 über Deutschen Demokratischen Republik-Standards.  
Vom 15. Januar 1962 (Order No. 160 relating to standards in the German  
Democratic Republic.—15 January 1962)
- Includes standards for fish preserving: salted, tinned, etc. The text of  
standards is not given.
- MF  
62-06239
- Ireland. Laws, Statutes, etc.** (1962)  
*Iris Oifigiúil*, (21) : 400  
Foyle Area (close season for angling) regulations, 1962.—19 February 1962
- Alters the commencing date for annual close season for angling in the river  
Mourne. From the 1st day of October in each year to the 31st day of March  
from 1962 to 1966.
- MF  
62-06240
- Ireland. Laws, Statutes, etc.** (1962)  
*Iris Oifigiúil*, (21) : 400-1  
Foyle Area (weekly close time) regulations, 1962.—19 February 1962
- Lengthens the weekly period during which netting for fish is prohibited in  
the Foyle Area from 48 to 72 hours. The purpose is to rest the stocks of  
salmon in the Foyle system until such time as runs of normal proportions are  
re-established.
- MF  
62-06241
- Ireland. Laws, Statutes, etc.** (1962)  
*Iris Oifigiúil*, (27) : 518  
Ballina district bye-law No. 508, 1962 made under the fisheries (consolidation)  
act, 1959.—30 March 1962
- Restrictions on use of lures, bag limits, etc.
- MF  
62-06242
- Luxemburg. Laws, Statutes, etc.** (1962)  
*Mém. Grand-Duché Luxemb.*, A (13) : 178  
Règlement ministériel du 23 mars 1962 relatif au tarif des droits d'entrée  
(Ministerial regulation relative to the import duty tariff.—23 March 1962)
- Extends to Luxemburg the provisions of the Belgian Royal decree of 22  
Mar. 1962 on the same subject. Covers fisheries products.
- MF  
62-06243
- Madagascar. Laws, Statutes, etc.** (1961)  
*J. off. Républ. malgache*, (191) : 1890  
Décret n° 61-572 modifiant le décret n° 61-078 du 8 février 1961 fixant les  
modalités d'application de l'ordonnance n° 60-128 du 3 octobre 1960 fixant la  
procédure applicable à la répression des infractions à la législation forestière,  
de la chasse, de la pêche et de la protection de la nature.—18 octobre 1961  
(Decree No. 61-572 amending decree No. 61-078 of 8 February 1961 fixing  
conditions for the application of ordinance no. 60-128 of 3 October 1960  
establishing the procedure applicable to penalties for infractions of the forest,  
hunting, fishing and nature protection legislation.—18 October 1961)
- Concerns joint liability of communities.

**Mexico. Laws, Statutes, etc. (1961)** MF  
62-06244  
*Diario ofic., Méx.*, (27) : 1-2

Acuerdo que dispone que la importación de alimentos preparados, queda sujeta a previo permiso de la secretaría de industria y comercio.—21 de Julio de 1961 (Order rendering the import of certain prepared foods subject to prior licence by the secretariat for industry and trade.—21 July 1961)

In respect of a variety of fish and fish products.

**Nicaragua. Laws, Statutes, etc. (1961)** MF  
62-06245  
*Gaceta Managua*, (111) : 1042-3

Decreto N° 11: reglamentación de la ley especial sobre explotación de la pesca.—6 de Marzo de 1961 (Presidential decree No. 11: regulations under the special act on fishing.—6 March 1961)

Prescribes responsibilities of the game and fisheries section within the Ministry of Agriculture in respect of fisheries, licences, closed seasons, etc.

**Norway. Laws, Statutes, etc. (1961)** MF  
62-06246  
*Norsk Lovtid.*, (21) : 547-8

Lov Nr. 6 om bridge i mellombels lov av 29. juni 1956 (nr. 8) om egedomsretten til fiske- og fangstfarkostar.—16 Juni 1961 (Act No. 6 amending provisional act No. 8 of 29 June 1956 concerning ownership rights in respect of fishing craft.—16 June 1961). *No*

**New South Wales. Laws, Statutes, etc. (1961)** MF  
62-06247  
*Govt Gaz. N.S.W.*, (111) : 3158

Proclamation made under the fisheries and oyster farms act, 1935-1960 relating to the waters of Patonga Creek, County of Northumberland.—27 September 1961

Prohibits the taking of fish by nets of every description—schedule A—and by set nets—schedule B—, for the specified periods and in the listed tidal waters.

**New South Wales. Laws, Statutes, etc. (1961)** MF  
62-06248  
*Govt Gaz. N.S.W.*, (111) : 3158

Proclamation made under the fisheries and oyster farms act, 1935-1960 relating to the waters of Currumbene Creek, County of St. Vincent.—27 September 1961

Prohibits the taking of fish, except by the methods and during the periods specified.

**New South Wales. Laws, Statutes, etc. (1961)** MF  
62-06249  
*Govt Gaz. N.S.W.*, (114) : 3269

Proclamation made under the fisheries and oyster farms acts, 1935-1960 relating to the waters of Manning River at Wingham, County of Macquarie.—4 October 1961

Prohibits the taking of fish by nets of every description in the specified waters, from 8 Feb. 1962 to 7 Feb. 1967.

- MF  
62-06250
- New South Wales. Laws, Statutes, etc. (1961)**  
*Govt Gaz. N.S.W.*, (116) : 3356-7  
Amendment of the regulations made under the fisheries and oyster farms act, 1935-60.—27 October 1961

Prohibits the taking of flathead in the specified waters except with nets as prescribed in the schedule.

- MF  
62-06251
- New South Wales. Laws, Statutes, etc. (1961)**  
*Govt Gaz. N.S.W.*, (125) : 3666

Proclamation made under the fisheries and oyster farms act, 1935-1960 relating to waters of Candlegut Creek, County of St. Vincent.—1 November 1961

Prohibits the taking of fish by nets of every description other than the prescribed dip or scoop net for the capture of prawns only, from 1 Feb. 1962 to 31 Jan. 1967, in the described tidal and inland waters.

- MF  
62-06252
- New South Wales. Laws, Statutes, etc. (1961)**  
*Govt Gaz. N.S.W.*, (125) : 3666

Proclamation made under the fisheries and oyster farms act, 1935-1960 relating to waters of Tomaga River, County of St. Vincent.—1 November 1961

Prohibits the taking of fish by hauling nets—schedule A—and by nets of every description—schedule B—, in the described tidal and inland waters, from 1 Feb. 1962 to 31 Jan. 1967.

- MF  
62-06253
- New South Wales. Laws, Statutes, etc. (1961)**  
*Govt Gaz. N.S.W.*, (123) : 3594-7

Amendment of the regulations made under the pure food act, 1908.—10 November 1961

Regulation 5, on poisonous metals in food, prescribes maximum arsenic and lead content in respect of fish in tinplate containers.

- MF  
62-06254
- New South Wales. Laws, Statutes, etc. (1961)**  
*Govt Gaz. N.S.W.*, (123) : 3598-3602

Amendment of the regulations made under the pure food act, 1908-1961.—10 November 1961

Replaces regulation 19B on canned fish products.

- MF  
62-06255
- New South Wales. Laws, Statutes, etc. (1962)**  
*Govt Gaz. N.S.W.*, (18) : 500

Proclamation made under the fisheries and oyster farms act, 1935-1960.—7 February 1962

Amends proclamation of 6 Sep. 1961, relating to the renewal of closures of certain streams against the capture of fish, substituting a new description of the Umaralla River.

FM  
62-06256

**New South Wales. Laws, Statutes, etc. (1962)**  
*Govt Gaz. N.S.W.*, (25) : 720

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Toubourre Lake, County of St. Vincent.—21 February 1962

Prohibits the taking of fish by nets of every description other than prawn nets prescribed by regulations 21, 25 and 139; by meshing nets as prescribed by regulation 23, during the specified periods in the listed tidal and inland waters.

MF  
62-06257

**New South Wales. Laws, Statutes, etc. (1962)**  
*Govt Gaz. N.S.W.*, (35) : 1018

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to portion of waters of Tuross River, County of Dampier.—21 March 1962

Prohibits the taking of fish by nets of every description, in the specified tidal and inland waters, from 15 May 1962 to 14 May 1967.

MF  
62-06258

**New South Wales. Laws, Statutes, etc. (1962)**  
*Govt. Gaz. N.S.W.*, (35) : 1027

Amendment of the regulations made under the fisheries and oyster farms act, 1935-1960.—13 April 1962

Regulation 22A is omitted.

MF  
62-06259

**Queensland. Laws, Statutes, etc. (1962)**  
*Qd Govt Gaz.*, (36) : 823

Order in council made under the fisheries acts, 1957 to 1959.—15 March 1962

Prohibits the taking of fish in the specified waters by any net, except the taking of herrings, hardiheads, or prawns by means of a cast " or umbrella " net.

MF  
62-06260

**Nigeria. Laws, Statutes, etc. (1962)**  
*West. Niger. Gaz. extraord.*, (11) : 198

Western Nigeria notice No. 195 concerning re-assignment of portfolios and subjects to ministers.—17 February 1962

Agriculture and natural resources shall include fisheries.

MF  
62-06261

**Norway. Laws, Statutes, etc. (1962)**  
*Norsk Lovtid.*, (1) : 6

Skriv den 3. januar 1962 om oppsynet under vinterfisket 1962 i Breivikfjorden i Finnmark (Resolution concerning the control of 1962 winter fishing in Bresvik Fjord, Finnmark.—3 January 1962)

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62-06262
- Peru. Laws, Statutes, etc.** (1962)  
*Peruano*, (6226) : 1
- Decreto supremo sobre la retención del impuesto a las utilidades en la industria del pescado.—19 de enero de 1962 (Supreme decree imposing a profits tax on the fisheries industry.—19 January 1962)
- Provides for tax payments of 1.5% on all purchases of fish.
- MF  
62-06263
- Philippines. Laws, Statutes, etc.** (1962)  
*Off. Gaz., Philippines*, (6) : 1046-54
- Executive order No. 5 modifying the rates of import duty on certain imported articles as provided under Republic act 1937, otherwise known as the tariff and customs code of the Philippines.—21 January 1962
- Includes, *inter alia*, prepared or preserved fish, including caviar substitutes and fish soups.
- MF  
62-06264
- Poland. Laws, Statutes, etc.** (1962)  
*Monit. polski*, (5) : 179-81
- Zarządzenie prezesa Polskiego Komitetu Normalizacyjnego z dnia 31 stycznia 1962 r. w sprawie ustalenia wykazu wyrobów, które powinny być w pierwszej kolejności objęte oznaczeniem znakiem jakości (Decision of the Polish standardization committee, specifying a list of products to be provided with a quality mark on a priority basis.—31 January 1962)
- Covers fish preserves.
- MF  
62-06265
- Western Australia. Laws, Statutes, etc.** (1961)  
*Govt Gaz. W. Aust.*, (91) : 3117-9
- Amendment of the regulations made under the fisheries act, 1905-1961.—9 November 1961
- In respect of fishing boat licences, possession of crayfish flesh, size of mesh for crab fishing and statistical returns, etc.
- MF  
62-06266
- Western Australia. Laws, Statutes, etc.** (1962)  
*Govt Gaz. W. Aust.*, (30) : 949-50
- Proclamation made under the fisheries act, 1905-1961.—12 April 1962
- Prohibits the taking of fish by means of fish traps in the waters specified, during the months of January, April, May, June, August, September, October, November and December in every year.
- MF  
62-06267
- Western Australia. Laws, Statutes, etc.** (1962)  
*Govt Gaz. W. Aust.*, (30) : 950-1
- F.D. 68/33, Ex. Co. No. 740. Proclamation made under the fisheries act, 1905-1961.—12 April 1962
- Ci 61-02818. All waters specified in the schedule (portions of Warnbro Sound, the Indian Ocean and Shoalwater Bay) shall be closed against the use of fishing nets for a period of five years. Repeals proclamation of 7 Sep. 1960, published in G.G. No. 78 of 16 Sep. 1960.

**West Pakistan. Laws, Statutes, etc. (1961)** MF  
*Gaz. W. Pakist.*, (L86) : 2945-52 62-06268

The West Pakistan fisheries ordinance, 1961 (No. XXX): an ordinance to amend and consolidate the law relating to fisheries in the province of West Pakistan.—13 December 1961

Extensive provisions. Repeals the Punjab fisheries act, 1914 and the Bahawalpur State fisheries act, 1951.

**Dees, L. T. (1961)** F  
*Fish. Leaflet, Wash.*, (512) : 5 p. 62-06269

United States Fish and Wildlife Service publications in limnology, 1940-1960

This is a list of 49 limnological papers written during 1940-1960 by scientists of the USFWS and of other organizations under contract to the service.

**Canada. Laws, Statutes, etc. (1962)** F  
*Can. Gazette (II)*, (4) : 186 62-06270

SOR/62-58. Order in council P.C. 1962-197 amending the Nova Scotia fishery regulations, made under the fisheries act.—15 February 1962

Prohibits trout fishing in various lakes from 1 Nov. to 30 Jun. in any year.

**Canada. Laws, Statutes, etc. (1962)** F  
*Can. Gazette (II)*, (4) : 192 62-06271

DORS/62-58. Décret C.P. 1962-197 modifiant le règlement de pêche de la Nouvelle-Écosse, en vertu de la loi sur les pêcheries.—15 février 1962 (SOR/62-58. Order in council P.C. 1962-197 amending the Nova Scotia fishery regulations, made under the fisheries act.—15 February 1962)

Fr 62-06270.

**France. Laws, Statutes, etc. (1962)** F  
*J. off. Rép. franç.*, (9) : 378-91 62-06272

Décret n° 62-18 du 10 janvier 1962 instituant des réserves de pêche sur les canaux et cours d'eau canalisés relevant du ministre des travaux publics et des transports (Decree No. 62-19 establishing fish ponds in canals and canalized waterways under the jurisdiction of the Minister of public works and transport.—10 January 1962)

The parts of canals and waterways specified in the appendix shall be reserved for fish culture, from 1962-1966, and all fishing prohibited, with certain specific exceptions.

F

**France. Laws, Statutes, etc. (1962)**

62-06273

*J. off. Rép. franç.*, (9) : 394-5

Décret n° 62-21 du 8 janvier 1962 modifiant le décret n° 58-874 du 16 septembre 1958 relatif à la pêche fluviale, et notamment aux conditions de la pêche dans les lacs du Bourget et d'Annecy (Decree No. 62-21 amending Decree No. 58-874 of 16 September 1958 relative to river fishing, in particular to fishing conditions in the Bourget and Annecy lakes.—8 January 1962)

Concerns powers of prefects in respect of minimum size of fish, use of nets, etc.

F

**France. Laws, Statutes, etc. (1962)**

62-06274

*J. off. Rép. franç.*, (14) : 576-93

Décret n° 62-52 du 15 janvier 1962 instituant des réserves de pêche sur les cours d'eau du domaine public relevant du ministre de l'agriculture et sur les cours d'eau non navigables ni flottables n'appartenant pas au domaine public (Decree No. 62-52 establishing fish ponds on waterways of public land under the jurisdiction of the Minister of agriculture and on waterways neither navigable nor floatable, not forming part of public land.—15 January 1962)

The described portions of specific waterways are set aside for fish reproduction from 1962 to 1966.

F

**France. Laws, Statutes, etc. (1962)**

62-06275

*J. off. Rép. franç.*, (33) : 1434-5

Arrêté du 26 janvier 1962 portant modification de l'arrêté du 16 septembre 1958 autorisant l'emploi de divers filets, engins ou lignes dans certaines eaux de la première catégorie (Order amending the order of 16 September 1958 authorizing the use of various nets, gear or lines in certain waters of the first category.—26 January 1962)

Prescribes methods and equipment to be used for fishing in specified rivers and lakes.

F

**Luxembourg. Laws, Statutes, etc. (1962)**

62-06276

*Mém. Grand-Duché Luxemb.*, A (22) : 275

Arrêté grand-ducal du 20 avril 1962 prorogeant d'une nouvelle année l'arrêté grand-ducal du 29 mai 1953 concernant la longueur minima de bonne prise de truites (Grand-Ducal order extending for a further year the Grand-Ducal order of 29 May 1953 on the minimum length of the trout that may be caught.—20 April 1962)

Reduced from 25 to 22 cm.

F

**Madagascar. Laws, Statutes, etc. (1961)**

62-06277

*J. off. Répub. malgache*, (193) : 1962

Décision n° 269-MAP/FOR fixant la date d'ouverture de la pêche à la truite pour l'année 1961.—28 octobre 1961 (Decision No. 269-MAP/FOR fixing the opening date of the 1961 trout fishing season.—28 October 1961)

12 Nov. 1961.



- Morocco. Laws, Statutes, etc. (1962)** F  
62-06278  
*Bull. off. Emp. chérif.*, (2577) : 394-8, 423-6  
 Arrêté n° 156-62 du 2 mars 1962 portant réglementation annuelle de la pêche dans les eaux continentales et fixant les périodes spéciales d'interdiction et les réserves de pêche pendant la saison 1962-1963 (Order No. 156-62 regulating fishing in inland waters, fixing special closed periods and fishing preserves for the 1962-1963 season.—2 March 1962)

Classifications of waters, minimum size of fish, fishing methods, etc.

- New South Wales. Laws, Statutes, etc. (1961)** F  
62-06279  
*Govt Gaz. N.S.W.*, (114) : 3269  
 Proclamation made under the fisheries and oyster farms act, 1935-1960 relating to portion of waters of Murrumbidgee River at Tantangara Reservoir, Counties of Wallace and Cowley—20 September 1961

Amends proclamation of 27 Nov. 1957 relative to the use of spinners behind power boats, by inserting a description of the waters referred to in the title.

- New South Wales. Laws, Statutes, etc. (1961)** F  
62-06280  
*Govt Gaz. N.S.W.*, (125) : 3666  
 Proclamation made under the fisheries and oyster farms act, 1935-1960 relating to portion of Kyalite or Edward River, County of Wakool.—1 November 1961

Prohibits the taking of fish by all methods other than a single rod and line or handline, as specified, in inland waters, from 21 Sep. 1961 to 20 Sep. 1966.

- New South Wales. Laws, Statutes, etc. (1962)** F  
62-06281  
*Govt Gaz. N.S.W.*, (18) : 500  
 Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Clarence River, County of Clarence.—7 February 1962

Prohibits the taking of fish by means of fish traps, for five years beginning 1 Feb. 1962, with certain exceptions and periods, as specified in the schedules.

- New South Wales. Laws, Statutes, etc. (1962)** F  
62-06282  
*Govt Gaz. N.S.W.*, (20) : 578  
 Proclamation, made under the fisheries and oyster farms act, 1935-1960, relating to portion of the waters of Malabar Creek and Moruya River, County of St. Vincent.—14 February 1962

Prohibits in the described waters, the taking of fish by nets of every description, other than the prescribed dip or scoop net for the capture of prawns only.

- New South Wales. Laws, Statutes, etc. (1962)** F  
62-06283  
*Govt Gaz. N.S.W.*, (27) : 780

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Minnamurra River, County of Camden.—7 March 1962

Prohibits the taking of fish by: nets of every description; spears, spear guns and similar devices, for a period of five years.

- New South Wales. Laws, Statutes, etc. (1962)** F  
62-06284  
*Govt Gaz. N.S.W.*, (27) : 780

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to portion of the waters of South Channel Manning River at Old Bar, Counties of Gloucester and Macquarie.—7 March 1962

Prohibits for five years the taking of fish, in the specified waters, by nets of every description other than the prescribed dip or scoop net for the capture of prawns only.

- New South Wales. Laws, Statutes, etc. (1962)** F  
62-06285  
*Govt Gaz. N.S.W.*, (35) : 1018

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to portion of waters of Jenolan or Harry's River, County of Westmoreland.—21 March 1962

Prohibits the taking of fish by all methods, in the specified inland waters, from 23 May 1962 to 22 May 1967.

- Norway. Laws, Statutes, etc. (1962)** F  
62-06286  
*Norsk Lovtid.*, (3) : 31

Fiskeregler for Dovre.—17 januar 1962 (Fishing regulations for Dovre.—17 January 1962)

Closed, season, mesh size, etc.

- Peru. Laws, Statutes, etc. (1961)** F  
62-06287  
*Peruano*, (6015) : 1

Resolución directoral No. 2 prohibiendo la pesca de truchas en el departamento de Ancash.—21 de marzo de 1961 (Directoral resolution No. 2 prohibiting trout fishing in the department of Ancash.—21 March 1961)

Until 31 Dec. 1963.

- Peru. Laws, Statutes, etc. (1961)** F  
62-06288  
*Peruano*, (6015) : 1

Resolución directoral No. 6 prohibiendo la pesca de truchas en el departamento de Cuzco.—21 de marzo de 1961 (Directoral resolution No. 6 prohibiting trout fishing in the department of Cuzco.—21 March 1961)

Until 31 Dec. 1963.

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**Ryszkowski, L.** (1961) G  
62-06289  
*Ekol. polsk. (B)*, 7 (4) : 267-75

Zagadnienie cykliczności masowego występowania zwierząt w świetle nowszej literatury ekologicznej (The problem of the cyclic character of animal fluctuations in the light of the latest ecological literature). *Pl En*

**Dempster, J. P.** (1961) G  
62-06290  
*J. Anim. Ecol.*, 30 (2) : 429-32

The analysis of data obtained by regular sampling of an insect population

A method of estimating mortalities in successive instars of population, from sampling data, is described, and tested against a laboratory population of *Locusta migratoria* in which the actual mortalities are known.

**Pimentel, D.** (1961) G  
62-06291  
*Amer. Nat.*, 95 (881) : 65-79

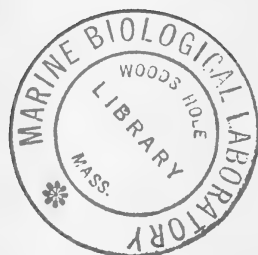
Animal population regulation by the genetic feed-back mechanism

WR (103) : 17.

**Barrett, W. J.** (Comp.) (1961) G  
62-06292  
London, Hall Harding Ltd., 45 p.

Glossary of photocopying terms

Over 200 terms having meanings special to photocopying and giving some basis for standardization.





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- Anon.** (1961) M  
62-06294  
*Pakist. Aff.*, 14 (16) : 3

Note on oceanography programs in Pakistan and the Indian Ocean expedition.

- Anon.** (1962) M  
62-06295  
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Report of the first meeting held at Unesco House, from 19 to 27 October 1961. Exp. Acting D.G.'s opening address.

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*Civiltà d. Lav.*, (1-2) : 43-6

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Development of bathyscaphs.

- USFWS. Department of the Interior** (1962) M  
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*Rep. biol. Lab., Woods Hole*, 1961 : 89 p.

Contains rep. of director, lists staff and publications; reports on fishery research programs concerning haddock, redfish, cod, hake, flounder, and sea scallops; tagging experiments; biometrics; aquarium; instrumentation; plankton; benthic ecology, fish behaviour; larval fishing feeding studies (electronic egg counter and underwater television). Referred also as: *Circ. U.S. Fish Wildl. Serv.*, (137).

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*Salt Wat. Fish. Newslett.*, 4 (1) : 5 p.  
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62-06304  
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 Program of researches by the French vessel 'Thalassa' in the ICNAF area, July-September 1962
- Gulf States Marine Fisheries Commission** (1961) M  
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*Rep. Atlant. St. Mar. Fish. Comm.*, 20 : 80 p.

Incl. account of fisheries by spp. and areas; schedule of conferences; report of work of Commission; resolutions of meeting, reports of committees and auditor; recommended legislation; official poster.

**Virginia. Commission of Fisheries** (1960-1961) M  
62-06308  
*Rep. Comm. Fish. Va.*, 66 p.

Sixty-second and sixty-third annual reports of the Commission of Fisheries of Virginia for the fiscal years ending June 30, 1960 and June 30, 1961

Incl. statistical tables on fish and oyster industries, reports of superintendent of hatcheries, and of the Virginia Fisheries Laboratory. Lists personnel.

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Main problems of using monomolecular layers to reduce loss by evaporation from reservoirs are to select best method of applying the monolayer and to maintain this cover under the influence of wind. Discusses principles underlying formation of monolayer and its application on field scale. Movement of monolayer under wind is described and it is shown that the rate is not constant as previously thought, but over long distances shows a progressive acceleration.

- Sproul, O. J. & D. W. Ryckman** (1961)\* F  
62-06428  
*J. Wat. Pollut. Control. Fed.*, 33 : 1188-98  
 Significance of trace organics in water pollution

- Briggs, R. & W. H. Mason** (1962)\* F  
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*Lab. Pract.*, 11 (1) : 36-44  
 Portable dissolved oxygen indicator

- Beattie, J., C. Bricker & D. Garvin** (1961)\* F  
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*Analyt. Chem.*, 33 : 1890-2  
 Photolytic determination of trace amounts of organic material in water

- Anon.** (1960) F  
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*Shui Wen Yuch K'an (Chinese People's Republic)*, 1960 (2) : 4-31, 36-9;  
 (3) : 1-25, 28-34, 38-9; (4) : 8-20, 23-7, 33-5; (5) : 6-8, 26-30, 37-9  
 (Articles on hydrology). *Ch*

Contents: Hydrological problems of water conservation and utilization; problems of hydrological forecasts and their use in water reservoirs; empirical formula to determine area of a river basin using the peripheral length (Yang Ch'ang-hua); a new simple method to determine a small reservoir river basin area and effective depth of water storage (Yao Hung-chu); measuring sand content by the floating balance method. Self-made suction-type water quality analysis water sampling instruments; limnological surveys and relationship between survey standards and hydrological characteristics of lakes (Wang Hung-tao); application of mathematical analysis method for calculating yearly requirements of reservoirs (Yang Yuan-tung); underground water position and water temperature instrument; transparency determination instrument; new method for surveying silt accumulation in small reservoirs (Kuo lin-yuan); automatic sand sample-taking instrument.



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JPRS/10517 : 330 p.

Articles on hydrology

*En* 62-06431. Available from Office of Technical Services, Washington, D.C.

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**Wurtz-Arlet, J. (1961)**

*Puntal*, 8 (87) : 6-9

El problema de las poluciones provocadas por los detergentes (The problem of the water pollution produced by detergents)

Short popular article on foam production and effects on the fauna and flora.

FG  
62-06433

**USPHS. Division of Radiological Health (1962)**

*Radiol. Hlth Data*, 3 (6) : 212 p.

Contains section on "water" tabulating data for the month Dec. 1961 for the radio-activity in raw surface waters; also global integrals as fallout, etc.

FG  
62-06434

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**English, T. S. (1962)**

Thesis, Univ. of Washington, 239 p.

An inquiry into distributions of planktonic fish eggs in a restricted area of Puget Sound

DA 22 (11) : 3819. Tidal current charts and a tidal model suggested slight tidal currents in Port Orchard area and rapid currents through Agate and Rich Passages. Surface temperature measurements, sections with a salinity-temperature-depth recorder, and hydrographic stations indicated that water in the Port Orchard area might maintain characteristics different from water in the main body of Puget Sound. Drift pole experiments showed that wind dominated the surface currents in Port Orchard area, but that tidal currents were dominant toward Agate and Rich Passages. Most abundant eggs were of three spp. of flatfishes, considered together as the *Parophrys-Platichthys-Psettichthys* complex.

M  
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**Bogorov, V. G. & T. S. Rass (1961)**

*Okeanologiya*, (1) : 107-9

On the productivity and prospect of fishing in waters of the Indian Ocean).  
*Ru*

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- Neto, T. S. (1961)** M  
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 Quetognatas des mares de Angola (Chaetognatha from the sea of Angola)
- The morphology, ecology and the geographical distribution of Chaetognatha present in two series of zooplankton samples, one series taken from Jun. to Dec. 1951, and the other from Aug. 1952 to Jan. 1953 along the coast of Angola, are studied.
- Paredes, J. F. (1962)** M  
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*Notas Cent. Biol. pisc., Lisboa*, (26) : 19 p.  
 Sobre a ocorrência de "águas vermelhas" no meio marinho (On one case of "red water" in the sea). *Pr En*
- Describes the macroscopic and microscopic aspects of red-water phenomena in Angola relating them with the environment. Scientific and economic importance of the phenomena is discussed.
- Currie, R. I. (1961)** M  
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 Scalar irradiance as a parameter in phytoplankton photosynthesis and a proposed method for its measurement
- Lacroix, G. (1961)** M  
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*Contr. Dép. Pêch. Québec*, (83) : 316 p.  
 Les migrations verticales journalières des euphasides à l'entrée de la Baie des Chaleurs (Daily vertical migrations of euphausiids at the entry of Chaleurs Bay). *En*
- Observations on *Thysanoessa raschii* (M. Sars) and *T. inermis* (Krøyer) suggest no conclusive evidence of a different pattern of migrations for males and females. Migrations are not apparently altered during reproductive periods. The thermocline does not form an impenetrable barrier for migrating euphausiids. Nauplius, Metanauplius and Calyptopis stages do not apparently undertake true diurnal vertical migrations.
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*Proc. nat. Acad. Sci., Wash.*, 48 (5) : 826-33  
 Fine structure of photoreceptors in the hydromedusan, *Polyorchis penicillatus*
- Electron microscope study of material from California.
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*Bull. Brit. Mus. (nat. Hist.) Zool.*, 7 (9) : 371-492  
 Distribution of pelagic polychaetes across the North Pacific Ocean
- Contribution to knowledge of systematics and zoogeography of this group of planktonic animals, based on detailed study of extensive collection.

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*Publ. Inst. oceanogr. Univ. S. Paulo*, (160) : 8 p.  
 Zooplankton standing stock off the South Brazilian coast

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*J. Bombay nat. Hist. Soc.*, 58 : 812-5  
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 BSEA 8 (6) 3489.

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 Chaetognates des campagnes de l' 'Ombango' dans la zone équatoriale africaine (1959-1960) (Chaetognata from the cruises of the 'Ombango' in the equatorial African zone (1959-1960))

Reports spp. collected with plankton hauls at the surface. Records the presence of two spp. from the Pacific Ocean: *Sagitta s. pseudoserratodentata* Tokioka and *S. neodecipiens* Tokioka.

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*Cah. Biol. mar.*, 3 : 137-55  
 Développement embryonnaire de *Podocoryne carnea* (Sars) de Roscoff (Embryonic development of *Podocoryne carnea* (Sars) from Roscoff). En It

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 Diatoms from Virginia tidal waters, 1960 and 1961

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 Thesis, Duke University, USA, 266 p.  
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- Rossi, L.** (1960) M  
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Systematic and biogeographical study of the material collected off the coast of central and southern Portugal, during the French-Portuguese expedition of the N.R.P. 'Faial'. Eleven spp. are reported; relations between Atlantic and Mediterranean Madreporaria fauna are discussed.

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 Gaumont-British Film Library, Greenford, Middlesex  
 Secrets of life series : C 934  
 Seashores  
 20 min, b and w, sound. Underwater life on the seashore.
- Film (d.u.)** M  
62-06464  
 Gaumont-British Film Library, Greenford, Middlesex  
 Beach and sea animals  
 11 min, colour, sound. A study of the animals that live on the edge of the sea.
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Popular review of present knowledge on *Artemia salina* life history and ecology, utilization, collection, and processing of the eggs, rearing. Gives list of suppliers of some shrimp eggs in the the USA.
- Fodward, M. B. E.** (1962) MF  
62-06513  
Paper read at the hundred and thirty-eighth meeting of the Genetical Society of Great Britain, held on 22nd and 23rd March 1962, at the Department of Zoology and the Department of Animal Genetics, University of Edinburgh and the M.R.C. Clinical Effects of Radiation Research Unit, Western General Hospital, Edinburgh  
The chromosomes of algae  
In different sub-groups of this assemblage of extremely dissimilar organisms, atypical chromosome organizations and nuclear division may be found, as well as the conventional type. The main chromosome types so far as they are known have been briefly reviewed.

- Cowden, R. R. & J. R. Coleman** (1962) MF  
62-06514  
*Experientia*, 18 (6) : 265-6  
A starch gel electrophoretic study of the hemolymph proteins of some Bermuda Crustacea

Study of 10 spp. of decapods and two Mollusca.

- Hunter, W. R. & D. C. Grant** (1962) MF  
62-06515  
*Biol. Bull., Woods Hole*, 123 (3) : 369-79  
Mechanics of the ligament in the bivalve *Spisula solidissima* in relation to mode of life

Presents results from an investigation of the mechanical characteristics of the ligament in *Spisula solidissima* at Woods Hole, and includes hysteresis curves and determinations of the opening moment in a range of growth stages (sizes). The data are discussed in relation to the earlier work with special reference to the marked differences between *Spisula* and *Mya*.

- Gotto, R. V.** (1962) MF  
62-06516  
*Ann. Mag. nat. Hist.* (13), (5) : 97-106  
Egg-number and ecology in commensal and parasitic copepods

General review of subject with references to the "axiom" that fecundity of a sp. is closely linked with its mortality rate.

- Tran Van Ky, P., R. Francis & L. Francis** (1962) MF  
62-06517  
*C.R. Acad. Sci., Paris*, 255 (2) : 366-7

L'étude immunoélectrophorétique de la structure antigénique des mollusques est-elle susceptible de résoudre certaines difficultés de leur taxonomie? (Is the immuno-electrophoretic study of the antigenic structure of molluscs able to solve certain difficulties in their taxonomy?)

Preliminary results of experiments with *Australorbis glabratus*, *Planorbis corneus*, *Limnea palustris*, *L. stagnalis*, *L. limosa*. These studies are recommended on the spp. acting as intermediate host in human helminthiasis.

- Caraion, F. E.** (1962) F  
62-06518  
*Stud. Cercet. Biol. (anim.)*, 14 (1) : 111-21  
Cytheridae noi (Crustacea—Ostrocoada) pentru fauna pontică românească (Cytheridae (Crustacea—Ostracoda) new to the Roumanian Pontic fauna).  
Ro Ru Fr

Records three genera: *Cytheroma*, *Leptocythere* and *Sclerochilus* new to the Roumanian marshes of the Black Sea.

**Jayakar, S. D.** (1962)

MF

62-06519

*Cah. Biol. mar.*, 3 : 129-36A biometrical study of natural selection in *Cardium edule*. Fr De

No evidence is found for centripetal selection, but some for selection in favour of high ridge number, in material collected from Saint-Efflam and Roscoff.

**Molander, A. R.** (1962)\*

MF

62-06520

*Ark. Zool.*, (2), 15 (1)

Studies of the fauna in the fjords of Bohuslän with reference to the distribution of different associations

**Hurlbert, R. E.** (1962)

F

62-06521

Thesis, Univ. of South Carolina, 102 p.

Glucose metabolism by *Buglena gracilis* var. *bacillaris*

DA 22 (11) : 4123. Study of metabolism undertaken to determine factors controlling glucose utilization and the metabolic pathways followed in glucose dissimilation. Colorless mutant was used to eliminate possible complications from photosynthesis.

**Mason, G. P.** (1962)

F

62-06522

Thesis, Cornell University, USA, 192 p.

The ecology of *Cladophora* in farm ponds

DA 22 (11) : 3829-30. Studied in five ponds near Ithaca, New York. A comparable pond which lacked the alga was studied. Object of investigation was to study: form in which alga overwinters; mode of growth or reproduction by which it forms extensive floating mats in summer and possible influence of physical, chemical and biological factors in life cycle. Samples taken at least every two weeks from Jun. 1960 into Aug. 1961, except during the winter when visits were made once a month.

**Naidu, K. V.** (1962)

F

62-06523

*Ann. Mag. nat. Hist.*, 5 (49) : 1-6

Three species of Gastrotricha from fresh-waters of Cuddapah, India

Common among filamentous algae in fresh-waters of wells, tanks, canals, streams and rivers. Morphological studies made on living specimens under high power and on freshly killed specimens under oil immersion.

**Campion, M.** (1962)

F

62-06524

*Nature, Lond.*, 194 (4831) : 806The biology of *Hydra* and of some other coelenterates

Consists of twenty-three papers delivered by North American workers at a symposium in Miami (Mar. 1961) with thirteen exclusively on *Hydra*, and six more general in nature. Topics covered include: electron microscopy, nematocysts and their toxins, nutrition, growth and differentiation, regeneration, colony formation, and sexual differentiation.

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- Runham, N. W.** (1962) F  
62-06525  
*Nature, Lond.*, 194 (4832) : 992-3  
 Rate of replacement of the molluscan radula  
 Observations on *Lymnaea stagnalis*.
- Rome, D. R.** (1962) F  
62-06526  
*Résult. sci. Explor. hydrobiol. Tanganika*, 3 (8) : 305 p.  
 Ostracodes (Ostracodes)  
 Monographs based on the material collected during the hydrobiological exploration of the lake Tanganyika. Describes and makes systematic remarks on spp. of Ostracoda, Podocopa, Cypridacea, Cyprididae, Cytheracea, Cytheridae, including a high number of n. spp.
- Film** (d.u.) F  
62-06527  
 Educational & Television Films Ltd., London  
 Fight for life  
 10 min., b and w, sound, English commentary. The struggle for existence among animal and insect life in rivers, pools and mountain streams.
- Golueke, C. G.** (1962) F  
62-06528  
*Physiol. Plant.*, 15 (1) : 1-9  
 Over-all light energy conversion efficiency of a high-temperature strain of *Chlorella pyrenoidosa*  
 Studies effect of temperature, detention period, length of daily illumination period, and rate of light energy absorption on the over-all light energy conversion efficiency of continuous cultures of a high-temperature strain of *Chlorella pyrenoidosa* isolated from an outdoor high-rate oxidation pond at Richmond, California.
- Eppley, R. W. & F. M. Macias** (1962) F  
62-06529  
*Physiol. Plant.*, 15 (1) : 72-9  
 Rapid growth of sewage lagoon *Chlamydomonas* with acetate  
 The ecological significance of acetate assimilation by *Chlamydomonas* in sewage lagoons is discussed.
- Foster, H. S. & A. V. Coombs** (1962) F  
62-06530  
*World Crops*, 14 (3) : 82, 86  
 The control of algae with copper sulphate  
 A popular article on the effectiveness of this chemical against algae and its toxic effect on fish.

- F  
62-06531
- Trono, G. C., Jr.** (1961)  
*Araneta J. agric.*, 8 : 139  
Studies on the Myxophyceae and Chlorophyceae of the Araneta University campus and vicinity  
BSEA 8 (4) 1995.
- F  
62-06532
- Rao, K. V. N.** (1961)  
*J. Indian bot. Soc.*, 40 : 555-65  
Studies on the mineral nutrition of *Oocystis maresonii* Lemm. 1. Evaluation of inorganic macro-nutrient concentrations for an optimum growth  
BSEA 8 (5) 2659.
- F  
62-06533
- Zahariadi, C.** (1962)  
*Stud. Cercet. Biol. (veg.)*, 14 (2) : 213-8  
Considerații biologice și sistematice asupra unei buruieni noi în orezăriile din Republica Populară Română—*Najas graminea* (Biological remarks on a new weed of the rice fields in the Roumanian People's Republic—*Najas graminea*). Ro Fr  
Records the presence of the sp. and gives short taxonomic description. Also refers to experiments on the use of herbicide to combat the development of the plant.
- F  
62-06534
- Wright, C. A. & D. S. Brown** (1962)\*  
*Bull. Brit. Mus. (nat. Hist.) Zool.*, 8 (6)  
On a collection of freshwater gastropod molluscs from the Ethiopian highlands
- F  
62-06535
- Forrest, H.** (1962)  
*Biol. Bull., Woods Hole*, 123 (3) : 343-61  
Lack of dependence of the feeding reaction in *Hydra* on reduced glutathione  
Of ten North American *Hydra* spp. tested, none has been found restricted to a diet of living animals of higher phyla, or exclusively dependent on release of GSH in juices of prey for initiation and coordination of feeding.
- F  
62-06536
- Vanamala, N. K.** (1961)  
*J. Bombay nat. Hist. Soc.*, 58 : 639-52  
Studies on the freshwater *Oligochaeta* of South India. 1. Aerosolmatidae and Naididae  
BSEA 8 (6) 3485.



- F
- Desikachary, T. V. & V. S. Sundaralingam** (1962) 62-06537  
*Phycologia*, 2 (1) : 9-16  
 Affinities and interrelationship of the Characeae
- Developmental features are reviewed with reference to speculation on affinities and interrelationships of this group. A phylogenetic scheme is offered in which the Nitelloidaceae are considered a line distinct from the Charoideae.
- F
- Welsh, H.** (1961) 62-06538  
*Rev. biol., Lisboa*, 2 (3/4) : 257-60  
 A new species of *Hydrocoryne* Schwabe and *Anabaena* Bory
- Describes *Hydrocoryne wardii* and *Anabaena bothai*, n. sp. from the Umgeni River in Natal.
- F
- Williams, W. D.** (1962) 62-06539  
*Proc. zool. Soc. Lond.*, 139 (1) : 75-96  
 The geographical distribution of the isopods *Asellus aquaticus* L. and *A. meridianus* Rac.
- Whilst both *Asellus aquaticus* and *A. meridianus* may be present in freshwater localities in western Europe, similar localities in the same region may contain only one, or other, or neither of these spp. An explanation of local distribution put forward.
- F
- Talpasayi, E. R. S.** (1962) 62-06540  
*Biochim. biophys. Acta*, 59 (3) : 710-2  
 Acid phosphatase activity of some algae and its inhibition by molybdenum
- Deals with: *Anabaena cylindrica*, *Anacystis nidulans*, *Chlorella vulgaris*, *Monodus subterraneus*.
- F
- Wasawo, D. P. S.** (1962) 62-06541  
*Ann. Mag. nat. Hist.*, (13), (5) : 113-20  
 The taxonomic position of *Alma worthingtoni* Stephenson
- This sp. described by Stephenson (1930) on basis of fragments from lake Kwania, Uganda, considered by author synonymous with *A. emini*.
- F
- Gerster, G.** (1962) 62-06542  
*Swissair Gaz.*, (6) : 2  
 Blue plague on the White Nile
- Ill. article on the *Eichhornia*.

F

**Negrea, A.** (1962)

62-06543

*Stud. Cercet. Biol. (anim.)*, 14 (1) : 123-40

Contribuții la studiul moluștelor din apele curgătoare mici și în special din izvoarele Cimpiei Române (Contribution to the study of molluscs of small rivers and, particularly, of springs of the Roumanian plain). *Ro Ru Fr*

Faunistic comparison of 124 samples with remarks on the ecology and zoogeography of the spp. Incl. some new records for the area.

FG

**Coleman, A. W.** (1961)

62-06544

*Quart. Rev. Biol.*, 36 (4) : 247-53

The role of modern culture methods in the study of algal life cycles

Information on experimental control of phenomena of zoospore and gamete formation are summarized along with current theories of their underlying physiology.

FG

**Maloney, T. et al.** (1962)

62-06545

*Phycologia*, 2 (1) : 1-8

Determination of numbers and sizes of algal cells with an electronic particle counter

An electronic particle counter was compared with conventional methods for determining cell numbers and the amount of cellular material in pure unialgal cultures, using *Chlorococcum macrostigmatum*.

FG

**Beyers, R. J.** (1962)

62-06546

*Science*, 136 (3520) : 980-2

Relationship between temperature and the metabolism of experimental ecosystems

Short term temperature variations of balanced laboratory aquaria demonstrated that metabolism of ecosystem is practically independent of temperature. Biota, water and sediments for three benthic, freshwater microecosystems studied were taken from the San Marcos River near the town of San Marcos, Texas, over a year previous to these experiments.

## FISHING

M

**Cordini, J. M.** (1960ë)

62-06547

Buenos Aires, 165 p.

La pesca en el Mar Argentino (Fisheries in the Argentine Sea)

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- Anon.** (1962) M  
*Pacif. Fisherm. Yearb.* 62-06548  
 Chile. On the eve of a boom
- TA (10) j1857. Now organizing industries and acquiring facilities needed to make Chile a leader among the fishery countries of the Pacific. Description of industry. Role played by government, sub-arctic crabbing, measures for industrial development and foreign participation in the development of fisheries resources of Chile are discussed.
- Anon.** (1962) M  
*Lat. Amer. Busin. Highlts*, 12 (1) : 16 62-06549  
 Fishmeal
- TA (10) j1858.
- Anon.** (1962) M  
*Pacif. Fisherm. Yearb.* 62-06550  
 Peru. World leader in fish meal
- TA (10) j1859.
- Ommanney, F. D.** (1961) M  
*Fish. Publ., Lond.*, (18) 62-06551  
 Malayan offshore trawling grounds—experimental and exploratory fishing cruises of the F.R.V. 'Manihine' in Malayan and Borneo waters, 1955-56 with a note on temperatures and salinities in the Singapore Strait.
- Nun, M.** (1961) M  
*Fish. Bull., Haifa*, 3 (10/30) : 14-22 62-06552  
 (Ancient Greek and Roman fisheries). *Iw*
- Fried, Z.** (1961) M  
*Fish. Bull., Haifa*, 3 (10/30) : 23-6 62-06553  
 (The maiden voyage of the fishing vessel 'Daguite 2'). *Iw*
- Exploratory cruise in Gulf of Guinea.
- Paldi, R.** (1961) M  
*Fish. Bull., Haifa*, 3 (10/30) : 38-9 62-06554  
 (Experimental long-line fishing off the Israeli coast). *Iw*
- Tzur, A.** (1961) M  
*Fish. Bull., Haifa*, 3 (10/30) : 39-40 62-06555  
 (Experimental trawl fishing in the eastern Mediterranean). *Iw*

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- Gdynia. Polish Chamber of Foreign Trade (1962)** M  
62-06556  
*Pol. marit. News*, 5 (43) : 20 p.

Section on fishing gives information about "Soguipol"—The Guinean-Polish Sea Fisheries Company and the Landings of west-coast fishermen. Fishing news bulletin gives notes on catches, govt. and industrial activities.

- Gdynia. Polish Chamber of Foreign Trade (1962)** M  
62-06557  
*Pol. marit. News*, 5 (44) : 20 p.

Section on fishing gives information about Polish fishing, with pelagic gear (mid-water trawls) in Baltic and N. Sea for sprats and herrings. Fishing news bulletin gives notes on catches, govt. and industrial activities.

- Anon. (1962)** M  
62-06558  
*S. Afr. Shipp. News Fish. Ind. Rev.*, 17 (1) : 53-61  
The fishing industry of Walvis Bay

- Punto, P. M. (1961)** M  
62-06559  
*Bol. Est. Biol. mar. Univ. Ceará*, (3) : 10 p.

Recursos básicos da pesca marítima no nordeste brasileiro (Basic resources of the sea fisheries in Brazilian northeastern waters). *Pr En*

Lists spp. commercially exploited and makes some remarks on the actual position of the fishing activities, and their development possibilities based on available statistics.

- Pinto, P. M. (1961)** M  
62-06560  
*Bol. Est. Biol. mar. Univ. Ceará*, (4) : 18 p.

Atividades do 'Albacora' em 1960 (Activities of the 'Albacora' in 1960). *Pr En*

Cruises concerned with fishery of *T. alalunga*, *T. albacares* along the oriental coast of northeastern Brazil. Data on catch and yields, references to certain tuna-like fishes.

- Anon. (1961)** M  
62-06561  
*Fish Boat*, 6 : 26-7

First U.S. stern trawler seen as model research vessel

CFA 15 (1) : 3.

- Smith, J. L. B. (1962)** M  
62-06562  
*S. Afr. J. Sci.*, 58 (2) : 39-40

Fishes from the Cape described by Lichtenstein in 1823

Notes especially on spp. of *Scomber*, *Blennius*, *Pimelodes* and *Squalus*.

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62-06563  
*Inform. Bull. Pacif. Sci. Ass.*, 14 (1, 2) : 10  
 Fishing operations and weather advice
- George, C. J.** (1962) M  
62-06564  
 Mimeo, 5 p.  
 The ecology of the coastal waters of Lebanon (A research and training program)
- Lestev, A. V.** (1962) M  
62-06565  
*West. Fish.*, 62 : 40  
 Fishability of Soviet perch trawls in the Bering Sea  
 CFA 15 (2) : 3.
- Dayton, A. L.** (1962) M  
62-06566  
*Proc. U.S. nav. Inst.*, 98-109  
 Fishing vessels around the world  
 CFA 15 (2) : 3.
- Thompson, J. R. & W. A. Haskell** (1960) M  
62-06567  
*Petfood Ind.*, unpag. Repr.: 4 p.  
 From trash to treasure  
 Describes the pet food fishery of the north-central Gulf of Mexico.
- U.K. MAFF** (1962) M  
62-06568  
*Sea Fish. statist. Tab., Lond.*, (1961) : 43 p.  
 Co 62-02562.
- Gdynia. Polish Chamber of Foreign Trade** (1962) M  
62-06569  
*Pol. marit. News*, 5 (46) : 16 p.  
 Section on fishing gives information on sea fisheries' investments in 1962; Fishing news bulletin gives notes on catches, govt. and industrial activities.
- U.K. MAFF** (1962) M  
62-06570  
*Sea Fish. statist. Tab., Lond.*, (1961) : 43 p.  
 Tabulates for U.K. and for England and Wales, landings by quantity, value, spp., post, area, gear; fishing effort, nos. of fishermen and vessels; imports and exports by kinds and countries.

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**Gdynia. Polish Chamber of Foreign Trade (1962)**  
*Pol. marit. News*, 5 (45) : 20 p.

M  
 62-06571

Section on fishing gives information about fish-processing, industry and fish exports. Fishing news bulletin gives notes on catches, govt. and industrial activities.

**Anon. (1962)**  
*World Fish.*, 11 (7) : 35  
 Echo-ranging for tuna

M  
 62-06572

**Alverson, D. L. (1962)**  
*World Fish.*, 11 (7) : 37-8  
 Gear research in the USA—A progress report

M  
 62-06573

**Anon. (1961)**  
*Tin Uses*, 53 : 12-5  
 Toxion anti-fouling treatment an organotin application  
 CFA 15 (3) : 1.

M  
 62-06574

**Anon. (1961)**  
*Nat. Fisherm.*, 42 : 14  
 Big stern dredge harvesting sea clams  
 CFA 15 (3) : 5.

M  
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**Anon. (1961)**  
*Fish Boat*, 6 : 22-5  
 Mammoth purse seiners, helicopters open a new era in tuna fishing  
 CFA 15 (4) : 5.

M  
 62-06576

**Anon. (1961)**  
*Torry Res.*, (1960) : 11-2  
 Transfer of fish at sea  
 CFA 15 (4) : 7.

M  
 62-06577

**Anon. (1961)**  
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62-06581
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Les engins de pêche . . . La ligne connaît une vogue nouvelle (Fishing gear . . . The fishing line has become fashionable again)
- M  
62-06582
- Anon.** (1962)  
*Simrad Echo*, (3) : 5  
New whaling sonar makes a big hit
- M  
62-06583
- Anon.** (1962)  
*Simrad Echo*, (3) : 8-10  
The echo sounder and the white line
- M  
62-06584
- U.K. Home Department** (1962)  
London, HMSO, Cmnd (1453) : 10 p.  
The fishing industry
- White paper giving U.K. Government views on report of Fleck Committee.
- M  
62-06585
- Anon.** (1962)  
*Fish. News int.*, 1 (4) : 9-13  
The fragrant harbour
- Article on Hong Kong fisheries.
- M  
62-06586
- Langelyth, J.** (1962)  
*Fish. News int.*, 1 (4) : 16-9  
Greenlandic fisheries
- M  
62-06587
- Kukucz, J. T.** (1962)  
*Fish. News, int.*, 1 (4) : 39-41  
Role of fish in Poland's plan to balance diet

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*Fish. News int.*, 1 (4) : 42-4  
 Survey of Brazilian fishing grounds 62-06588
- Ellesfsen, E. S.** (1962) M  
*Fish. News int.*, 1 (4) : 73-5  
 Alesund—Norway's cornucopia for fish 62-06589
- Bull, M. R.** (1962) M  
*Fish. News int.*, 1 (4) : 76-8  
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- Ryzhenko, M.** (1961) M  
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- General principles of modern techniques outlined, types of transducers and their directional properties described. Relationship of parameters, as they affect velocity of underwater sound, is shown in a formula and the consequences of non-uniform velocity of sound on its propagation through the ocean are referred to. Application and typical results are included. Section on interpretation of records illustrates pitfalls for inexperienced operator.
- U.S. Interdepartmental Committee on Nutrition for National Defense** (1962) MF  
 187 p. 62-06595  
 The West Indies, Trinidad & Tobago, St. Lucia, St. Christopher, Nevis and Anguilla. Nutrition survey August-September 1961
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 A brief review of the catch and release program.
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*Rep. Catch Statist. Fish. Aquic. Japan*, (1960) : 437 p. 62-06598  
 Statistical tables of whaling, pelagic fisheries, domestic marine fisheries, fish culture in shallow seas, catch from inland waters, fish culture in inland waters and processing, giving data on catch, gear employed and effort expended; also describes the survey methods and gives illustrations of the economic organisms and of the principal marine fishing methods of Japan.
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*S. Afr. J. Sci.*, 58 (2) : 33-4 62-06599  
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 Ill. note on craft made for A. Evans, University of Sydney, Australia, for plankton and limnological research on Prion Lake, Macquarie Island. Also gives notes on activities of Australian National Antarctic Research Expeditions (ANARE) and the four permanent stations maintained.
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 Fisheries of the United States 1961—A preliminary review  
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- South Africa. Republic** (1961) MF  
*Progr. Rep. FAO/S. Afr.*, 1961 : 72 p. 62-06601  
 Contains sections on sea and inland fisheries.
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*Circ. U.S. Fish Wildl. Serv.*, (109) : 61 p. 62-06606  
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*C.R. Acad. Sci., Paris*, 255 (2) : 377-9

La pigmentation de la tanche. Ses relations avec l'intégrité de la moelle ou du sympathique (The pigmentation of the tench. Its relations with the integrity of the medulla or the sympathetic)

Preliminary note of experiments with *Tinca tinca*.

- Moreau, G.** (1962) F  
62-06787  
*C.R. Acad. Sci., Paris*, 255 (2) : 397-9

Étude de variations saisonnières du comportement alimentaire du goujon (*Gobio gobio* L.) (Study of the seasonal variations in feeding behaviour of the goby (*Gobio gobio* L.))

The winter fat observed in this sp. seems to correspond to an inversion of the phototropism in relation to changes in some physical factors of the environment.

## MISCELLANEOUS AND AUXILIARIES

**South Africa. Republic. Laws, Statutes, etc. (1962)** M  
62-06788  
*Govt Gaz. S. Afr.*, (186) : 14

Goewermentskennisgewing No. 286: wet op seevisserye, 1940. Walvisvang-seisoene vir Landstasies, 1962.—2 Maart 1962 (Government notice No. 286, pursuant to the sea fisheries act, 1940, relating to whaling season for land stations, 1962.—2 March 1962)

For: sperm whales from 1 Mar. to 31 Oct., on the Indian and Atlantic Ocean coasts; baleen whales (including minke whales) from 15 Apr. to 14 Oct. on the Indian Ocean coast, and from 1 May to 31 Oct. on the Atlantic Ocean coasts.

**Spain. Laws, Statutes, etc. (1961)** M  
62-06789  
*Bol. ofic. Estado, Madr.*, (98) : 4503-4

Instrumento de ratificación del convenio 114, relativo al contrato de enrolamiento de los pescadores.—28 de junio de 1961 (Instrument of ratification of convention No. 114 relative to fishermen's enrolment contracts.—28 June 1961)

To protect fishermen's rights. Ratification by Spain of international convention adopted by ILO general conference in June 1959.

**Spain. Laws, Statutes, etc. (1961)** M  
62-06790  
*Bol. ofic. Estado, Madr.*, (99) : 5479-80

Instrumento de ratificación del convenio 112, relativo a la edad mínima de admisión al trabajo de los pescadores.—28 de junio de 1961 (Instrument of ratification of convention No. 112 relative to the minimum working age for fishermen.—28 June 1961)

Children under 15 years of age may not be employed on fishing vessels, except casually and provided this does not interfere with school attendance, upset health, or involve payment for services. Ratification by Spain of convention adopted by ILO general conference in June 1959.

**Spain. Laws, Statutes, etc. (1962)** M  
62-06791  
*Bol. ofic. Estado, Madr.*, (86) : 4791-4

Resolución de la dirección general de comercio exterior por la que se aprueban los calendarios de fechas principio y fin de las campañas comerciales de exportación de los productos incluidos en el régimen de licencia global de exportación.—21 de marzo de 1962 (Resolution issued by the directorate general of foreign trade approving the time table of dates for the opening and closing of the export periods for the products included in the global export licence regime.—21 March 1962)

Includes fish and shell-fish preserves.

**Sweden. Laws, Statutes, etc. (1961)**M  
62-06792*Svensk. FörfSaml.*, (659) : 1671-5

Kungl. Maj:ts kungörelse Nr 659 angående ändrig i kungörelsen den 21 november 1952 (nr 699) med vissa bestämmelser om storleken av maskor i fiskredskap av nät och om minimimått på fisk m.m.—15 december 1961 (Royal order No. 659, amending order No. 699 of 21 November 1952, prescribing measures concerning the dimensions of fish net meshes and the minimum size of fish.—15 December 1961)

Concerns fisheries off the coasts of northern Europe and in the northern part of the Atlantic Ocean.

**Switzerland. Laws, Statutes, etc. (1962)**M  
62-06793*Rec. Lois féd. Berne.*, (11) : 257-9

Protocole concernant l'importation de produits agricoles portugais en Suisse. Conclu à Berne le 22 février 1962 (Protocol relative to import of Portuguese agricultural produce into Switzerland.—22 February 1962)

Comes into force on 1 Apr. 1962. Covers also shell-fish and Crustacea.

**U.K. Laws, Statutes, etc. (1961)**M  
62-06794*Stat. Instr., U.K.* (2336) : 1 p.

The whaling industry (ship) (amendment) regulations, 1961.—6 December 1961

Prescribes the period during which baleen whales (excluding minke whales) may be taken and treated in antarctic waters: 12 Dec.—7 Apr.

**U.K. Laws, Statutes, etc. (1962)**M  
62-06795*Stat. Instr., U.K.*, (620) : 4 p.

The sea-fishing industry (fishing-nets) order, 1962.—26 March 1962

Ci 61-09552. Supersedes the sea-fishing industry (fishing nets) order, 1961. Prescribes minimum sizes of meshes for the fishing nets carried by British fishing boats in areas specified.

**U.S. Laws, Statutes, etc. (1962)**M  
62-06796*Fed. Reg. U.S.*, (55) : 2641-2

Code of federal regulations, title 50—chap. 2—subchap. G—Processed fishery products, thereof, and certain other processed food products—Part 274: United States standards for grades of frozen flounder and sole fillets.—14 March 1962

Becomes effective on 30 Mar. 1962.



**Anon.** (1962)*Nature, Lond.*, 194 (4831) : 820

International commission on zoological nomenclature

M  
62-06797

Notice of the possible use by the International Commission on Zoological Nomenclature of its plenary powers in connexion with: designation of a type sp. for *Pisidia* Leach, 1820 and suppression of the specific name *istrianus* (*Cancer*) Scopoli, 1763; validation of the generic name *Stereomastis* Bate; suppression of the generic name *Arctopsis* Lamarck, 1801, and the specific names *lanata* (*Arctopsis*) Lamarck, 1801, and *tribulus* (*Cancer*) Linnaeus, 1767 (Crustacea, Decapoda).

**Hagins, W. A., H. V. Zonana & R. G. Adams** (1962)*Nature, Lond.*, 194 (4831) : 844-7

Local membrane current in the outer segments of squid photoreceptors

M  
62-0679

Reports some experiments using live retinæ isolated from dark-adapted animals *Loligo pealii*.

**Model, F.** (1962)

Hamburg, Deutsches Hydrogr. Inst.

Geophysikalische Bibliographie von Nord- und Ostsee—1. Teil. Chronologische Titelaufzählung (Geophysical bibliography for the North Sea and Baltic—Part 1. Chronological list of titles)

Unpubl. MS. Contains general introduction in *De* and *En*; volume introduction in *En*, chart of sub-areas, UDC classification of oceanography and some related subjects—in *De*; references to publications on oceanography, incl. estuaries, with titles in original language, in chronological order, and serially numbered within years. For each reference are given a set of descriptors and UDC numbers.

M  
62-06799**Model, F.** (1962)

Hamburg, Deutsches Hydrogr. Inst.,

Geophysikalische Bibliographie von Nord- und Ostsee—2. Teil. Registerband (Geophysical bibliography for the North Sea and Baltic—Part 2. Index volume)

Unpubl. MS. Co 62-06799. Contains indexes to volume 1 by author—or title—, subject—by UDC and also by descriptors—, by area and within area by main subject. Also contains a citation index in the form of forward references to entries in this bibliography.

M  
62-06800**Schmidt-Nielsen, K.** (1960)\**Circulation*, 21 (5) Part 2 : 955-67

Symposium on salt and water metabolism

M  
62-06801

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- Gessner, F.** (1962) M  
62-06802  
*Acta cient. venezol.*, 13 (2) : 41-5  
 Fitogeografía del mar (Phytogeography of the sea)
- Popular article on the historical development of this science with examples taken from ecological research.
- National Shellfisheries Association** (n.d.) M  
62-06803  
 Mimeo, 15 p.  
 Titles of papers presented at annual meetings 1930-1957
- Dévoid, F.** (1962) M  
62-06804  
*Simrad Echo*, (3) : 1  
 Wizard of the west
- Note on work of F. Dévoid on echo-sounding for herring.
- Beverton, R. J. H.** (1962) M  
62-06805  
*FAO Fish. Rep.*, (3) : 19-21  
 The commercial fishing statistics required for research and regulation of the North Sea demersal fisheries
- Fridriksson, A.** (1962) M  
62-06806  
*FAO Fish. Rep.*, (3) : 66-72  
 Fishery statistical requirements of ICES
- Keir, R. S.** (1962) M  
62-06807  
*FAO Fish. Rep.*, (3) : 72-9  
 Fishery statistical requirements of ICNAF
- Gertenbach, L. P. D.** (1962) M  
62-06808  
*FAO Fish. Rep.*, (3) : 106-9  
 Fishery statistics: conversion factors
- Gertenbach, L. P. D.** (1962) M  
62-06809  
*FAO Fish. Rep.*, (3) : 112-20  
 Statistical treatment of direct foreign landings
- Gertenbach, L. P. D.** (1962) M  
62-06810  
*FAO Fish. Rep.*, (3) : 136-9  
 Excerpts from annexes to statistical treatment of direct foreign landings

**Yentsch, A. E.** (Comp.) (1962)  
Woods Hole Oceanographic Institution, 395 p.  
A partial bibliography of the Indian Ocean

M  
62-06811

Ci 60-9923. Compilation of nearly 400 pp. references contributed by Day, Rao, Prasad, Smith, Challenger Soc., and incl. those in Ci 60-9923 but does not apparently necessarily incl. references in IPFC bibliography of the western sector, 1950; incl. also references from *Biol. Abstr.*, *Zool. Rec.*, *Met. Abstr.* Intended primarily as guide to work which done in region, not as comprehensive or exhaustive treatment of subject. Arranged by subject with references to more than one subject appearing in full under each of the appropriate headings. Within each subject group, the references are listed alphabetically by senior author. Gives an author index. Lists important expeditions and gives charts of their cruise tracks. Biological references listed by major taxonomic groups. Other main headings are: Oceanography (general, physical and chemical); Submarine geology, geophysics and geochemistry; Meteorology; Coral reefs (geology and biology). Issued also as: *Contr. Woods Hole oceanogr. Instn.* (1286).

**Parrish, B. B.** (Ed.) (1962)  
*FAO Fish. Rep.*, (3) : 217 p.

MG  
62-06812

Requirements and improvements of fishery statistics in the North Atlantic region

Report based on documents of the Expert Meeting on Fishery Statistics in the North Atlantic Area, held in Edinburgh, Scotland, 22-29 Sep. 1959. Incl. 62-06608; 62-06609; 62-06810; 62-06813; 62-06805 to 62-06809; 62-06831 to 62-06837. Also gives recommendations, summaries of discussions. Appendices list participants and documents, classifications and gives reports of first two meetings of FAO/ICNAF/ICES Continuing Working Party on North Atlantic Statistics.

**Parrish, B. B. & R. S. Keir** (1962)  
*FAO Fish. Rep.*, (3) : 88-93

MG  
62-06813

The measurement of fishing power and its relation to the characteristics of vessels

**Poland. Laws, Statutes, etc.** (1962)  
*Dziennik Ustaw*, (17) : 128-32

MF  
62-06814

Rozporządzenie prezesa rady ministrów z dnia 28 lutego 1962 r. w sprawie norm dopuszczalnych zanieczyszczeń wody oraz warunków, jakim powinny odpowiadać ścieki odprowadzane do wody i do ziemi (Order prescribing standards concerning permissible impurities in and conditions required of sewage drained into water or land.—28 February 1962)

Includes tables of quality standards for surface waters, waters of inland zones, etc. Repeals and replaces order of 2 Sept. 1950, text 371.

- MF
- Rhodesia-Nyasaland, Federation of. Laws, Statutes, etc.** (1962) 62-06815  
*Fed. Govt Gaz., Rhodesia*, (11), suppl., 207  
 Federal Government notice No. 67 of 1962 relating to the customs and excise (suspension) (amendment) regulations, 1962 (No. 31), made under the customs and excise act, 1955 [ACT 16/55]
- The effect of these regulations is to withdraw suspension of duty granted on potted or tinned fish and fish pastes.
- MF
- Rhodesia-Nyasaland, Federation of. Laws, Statutes, etc.** (1962) 62-06816  
*Fed. Govt Gaz., Rhodesia*, (15), suppl., 245  
 Federal Government notice No. 84 of 1962 relating to the control of goods (fish prices) (Northern Rhodesia) (repeal) order, 1962, made under ACT 12/54
- Removes price control of fish in Northern Rhodesia and repeals order published in Fed. Govt. notice No. 273 of 1954 and (amendment) order (No. 1) published in Fed. Govt. notice No. 86 of 1955.
- MF
- Rhodesia-Nyasaland, Federation of. Laws, Statutes, etc.** (1962) 62-06817  
*S. Rhodesia Govt. Gaz.*, (16) Suppl. Act (2) : 5-6  
 Fish conservation amendment act, 1962: act to amend the fish conservation act, 1960
- Various amendments of an administrative nature.
- MF
- Rhodesia-Nyasaland, Federation of. Laws, Statutes, etc.** (1962) 62-06818  
*S. Rhodesia Govt. Gaz.*, (16) Suppl. Not. (176) : 1-3  
 Southern Rhodesia government notice No. 176 of 1962 relating to fish conservation (honorary officers: Powers) regulations, 1962, made under the fish conservation act, 1960 [ACT 44/60]
- Powers to ensure application of the fish conservation act, 1960.
- MF
- South Africa, Republic. Laws, Statutes, etc.** (1962) 62-06819  
*Govt Gaz. S. Afr.* (217) : 9-14  
 Goewermentskennisgewings No. R. 553. Streekstandaarde vir nywerheidsafvalwater.—5 April 1962 (Government notice No. R. 553 relating to regional standards for industrial effluents.—5 April 1962)
- Quality standards for any waste water or effluents; tables in respect of constituents; tolerances, exemptions, etc.
- MF
- Spain. Laws, Statutes, etc.** (1961) 62-06820  
*Bol. ofic. Estado, Madr.*, (98) : 5402-3  
 Instrumento de ratificación del convenio 113, relativo al examen médico de los pescadores.—28 de junio de 1961 (Instrument of ratification of convention No. 113 relative to medical examinations for fishermen.—28 June 1961)
- Employment in fishing vessels subject to presentation of a health certificate signed by a competent medical authority. Ratification by Spain of international convention adopted by ILO general conference in June 1959.

- MF  
62-06821
- Spain. Laws, Statutes, etc. (1962)**  
*Bol. ofic. Estado, Madr.*, (74) : 4168-9  
 Orden sobre juntas territoriales de pesca en las provincias de Ifni y Sahara.—  
 7 de febrero de 1962 (Order relative to territorial fisheries boards in the  
 province of Ifni and Sahara.—7 February 1962)

As a result of the abolition of Spanish West Africa and the creation of the provinces of Ifni and Sahara, the former territorial fisheries board of Spanish West Africa is replaced by the present board. Gives functions and membership of the board.

- MF  
62-06822
- Spain. Laws, Statutes, etc. (1962)**  
*Bol. ofic. Estado, Madr.*, (77) : 4343

Orden de 14 de marzo de 1962 por la que se extiende al Japón el régimen de comercio vigente en España para los países del anexo " B " de la orden de 29 de julio de 1959 (Order extending to Japan the trade regime in force in Spain for countries appearing in annex " B " to the order of 29 July 1959.—14 March 1962)

For the liberalization of imports. Includes fish.

- MF  
62-06823
- U.K. Laws, Statutes, etc. (1962)**  
*Stat. Instr., U.K.*, (385) : 2 p.

The Northumberland and Tyneside River Board area (fisheries) order, 1962, made under the salmon and freshwater fisheries act, 1923.—5 January 1962

Permits the use for fishing for salmon and trout in certain parts of the river board area of nets known as " T " nets.

- MF  
62-06824
- The Council for Nature, London (1961?)**  
 Mimeo, 28 p.

A list of 16 mm. films on natural history subjects—Part 1: The British Isles & Europe

Annotated list, giving full particulars of films, in rough order of subject and type. List of distributors. Incl. 586750; 586751; 62-06357; 62-06449; 62-06463; 62-06464; 62-06465; 62-06527; 62-06698; 62-06752 to 62-06755; 62-06757 to 62-06760.

- MF  
62-06825
- Lanjouw, J. et al. (1961)**  
 Utrecht, International Bureau for Plant Taxonomy and Nomenclature of the International Association for Plant Taxonomy, 372 p.

International code of botanical nomenclature, adopted by the 9th International Botanical Congress, Montreal, August, 1959

List of conserved names of families (15 p.) and of conserved generic names (123 p.); Full index.

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*SFI Bull.*, (124) : 1-2 62-06826  
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- Discusses the effects of road construction on fisheries with special reference to the removal of stream bed gravel used for spawning.
- Andrews, P. M. (Comp.) (1962)** MF  
*FAO Cat. Fish. Publ.*, 1948-1962 : 49 p. 62-06827
- Co 61-09418. Trilingual revised catalogue listing all fisheries publications and documents issued by FAO and its subsidiary bodies and prepared by its staff, or published with FAO's permission.
- Anon. (1961)** MF  
 Washington, Bureau of Commercial Fisheries 62-06828  
 Flytting av fiskearter i Sovjetsamveldet (Air transportation of fish species in Soviet Russia). Sv
- Anon. (Scattergood, L. W. Transl.) (1961)** MF  
*Fiskets Gang*, 47 (44) : 707 62-06829  
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- En* 62-06828. CFA 15 (4) : 19.
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 La FAO e la pesca nel mondo (FAO and the fisheries in the world). *It*
- Holt, S. J. (1962)** MF  
*FAO Fish. Rep.*, (3) : 16-8 62-06831  
 The use of fishery statistics by research biologists
- Scott, A. (1962)** MF  
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 The use of fishery statistics by research economists
- Rutherford, J. B. (1962)** MF  
*FAO Fish. Rep.*, (3) : 36-44 62-06833  
 The use of fishery statistics by business and government in North America
- Gerhardsen, G. (1962)** MF  
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 The use of fishery statistics by government and business in north west Europe

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**Shparlinsky, V.** (1962) MF  
*FAO Fish. Rep.*, (3) : 53-60 62-06835  
 Soviet system of fishery statistics

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*FAO Fish Rep.*, (3) : 61-5 62-06836  
 Fishery statistical requirements of FAO

**Gulland, J. A.** (1962) MF  
*FAO Fish Rep.*, (3) : 84-8 62-06837  
 Operation statistics in relation to measurements of fishing effort

**Piper, D. C.** (1962) F  
 Thesis, Duke University, USA, 295 p. 62-06838  
 The international law of the Great Lakes  
 DA 22 (10) : 3730.

**U.N. Office of Public Information & Technical Assistance Board** (1962) F  
*Tech. Assist. Newslett.*, 2 (5) : 5 p. 62-06839  
 Special fund proposes multi-purpose dam on Niger River

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*Rep. Nat. Conserv.*, 1960 62-06840

Contains lists of studentships incl. those on: ecological and physiological significance of trace elements to aquatic animals (D. J. Hobden); the ecology and biology of some benthic invertebrates in moving waters of streams and lake shores, with special reference to environmental factors governing distribution (J. M. Edington); population study of water-mites Hydrachnellae (I. E. Efford); the physiology and ecology of the Rotifera (R. M. Oldoyd); an investigation of the hydrological cycle in the catchment area of river Ystwyth (J. C. Rodda); Population studies of the aquatic isopod *Asellus* (E. A. Steel).

**Anon.** (1962) F  
*Swissair Gaz.*, (6) : 8 62-06841  
 Ghana's great Volta project

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 News of Soviet medicine and biology

*En* transl. of seven selected articles from Jul.-Aug. 1961 issues of seven Ru newspapers. Contains: Rivers must be clean, by V. Kirpichnikov. Available from Office of Technical Services, Washington, D.C.

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 Incl. note on work of W. S. Overton on creel census.
- Heidhues, T. E. (1962)** G  
62-06844  
 Thesis, Cornell University, USA, 92 p.  
 Accuracy of the selection index method in samples from population with unknown parameters  
 DA 22 (11) : 3820.
- Garfinkel, D. (1962)** G  
62-06845  
*Nature, Lond.*, 194 (4831) : 856-7  
 Digital computer simulation of ecological systems  
 Describes a general computer method of representing ecological systems of any desired degree of complexity in terms of simultaneous first-order differential equations, with some simple illustrative applications.
- Stoward, P. J. (1962)** G  
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*Nature, Lond.*, 194 (4832) : 977-8  
 Thermodynamics of biological growth  
 The application of the entropy theorem to biological growth as a step in testing experimentally the heat evolved by cultures of *Aerobacter aerogenes* growing in a synthetic glucose medium has been studied.
- Course, A. G. (1962)\*** G  
62-06847  
 London, Arco Publications, 216 p.  
 A dictionary of nautical terms
- Swamy, P. S. & S. A. D. C. Doss (1961)** G  
62-06848  
*Sankhya, (A)* 23 (3) : 225-30  
 On a problem of Bartholomew in life testing  
 Ci 586753; 59-0302. Problem in life testing is considered under a more general model of Mendenhall & Hader, viz. that the parent failure population is made up of two different sub-populations mixed in unknown proportions, each sub-population representing a different cause of failure. Maximum likelihood estimating equations of parameters and variance-covariance matrix of estimates are obtained.
- Katti, S. K. & J. Gurland (1962)** G  
62-06849  
*Biometrics*, 18 (1) : 42-67  
 Some methods of estimation for the Poisson binomial distribution  
 Ci 580346; 61-09407. Shows a minimum chi-square method is a reasonable substitute for complex maximum likelihood method within a tabulated region of parameter values.



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**Patil, G. P.** (1962) G  
62-06850  
*Biometrics*, 18 (1) : 68-75  
 Some methods of estimation for the logarithmic series distribution

Ci Kendall, D. G., 1948. Develops maximum likelihood method and three other useful estimates, considering their efficiencies, and giving a table of means of this distribution, to assist in fitting it.

**Barnett, V. D.** (1962) G  
62-06851  
*Biometrics*, 18 (1) : 76-103  
 The Monte Carlo solution of a competing species problem

Ci 59-0297; 61-02387; 62-03193. Develops and applies method, giving extensive tables for extinction probabilities.

**Hiorns, R. W.** (1962) G  
62-06852  
*Biometrics*, 18 (1) : 123  
 A further note on the extension of Stevens' tables for asymptotic regression

Ci W. L. Stevens, 1951; 61-01195. Pointing out that author has submitted for publication in *Tracts for computers* (Dept. Statistics, Univ. College, London), tables for  $n=5$  (1) 30.

**Gorokhoff, B. I.** (1962) G  
62-06853  
 Washington, National Science Foundation, 46 p.  
 Providing U.S. scientists with Soviet scientific information

**Harary, F.** (1961) G  
62-06854  
*Gen. Syst.*, 6 : 41-4  
 Who eats whom?

**Levins, R.** (1961) G  
62-06855  
*Gen. Syst.*, 6 : 33-9  
 Mendelian species as adaptive systems

**Danskin, J. M.** (1962) G  
62-06856  
*Operat. Res.*, 10 (3) : 285-99  
 A theory of reconnaissance: 1

Study of optimum distribution of aerial reconnaissance effort against targets in presence of decoys. Model considered is one in which reconnoitering forces allocate effort among various regions, their objective being location of targets, assuming that the side being reconnoitered is passive. Information function of theory of communication chosen as measure of effectiveness.

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- Danskin, J. M.** (1962) G  
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*Operat. Res.*, 10 (3) : 300-9  
 A theory of reconnaissance: 2.  
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- Lerner, I. M. & E. R. Dempster** (1962) G  
62-06858  
*Proc. nat. Acad. Sci., Wash.*, 48 (5) : 821-6  
 Indeterminism in interspecific competition  
 Apparently indeterminacy is largely result of genetic heterogeneity among founder of populations in different cultures, and that proper specification of genotypes makes results of replicate competing cultures predictable with near certainty in each individual case. Supported by deterministic outcome of competition trials in which genetic variability from culture to culture has been greatly reduced.
- IAEA** (1962) G  
62-06859  
 Vienna, 304 p.  
 Radioisotopes and radiation in entomology
- Koster, J. Th.** (1962) G  
62-06860  
*Phycologia*, 2 (1) : 38-41  
 Quelques règles de la nomenclature botanique importantes pour les phycologues (Some rules of botanical nomenclature of importance to phycologists)  
 Short note with examples.
- Tonna, E. A., E. P. Cronkite & F. J. Sanen** (1962) G  
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*Nature, Lond.*, 195 (4837) : 157-9  
 Fracture repair after treatment with deoxyribonucleic acid from fish
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 Numerical methods of curve fitting  
 Re 62-00564.
- Cutting, C. L.** (1962) G  
62-06863  
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- Worsley, B. H. & L. C. Lax** (1962) G  
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 Selection of a numerical technique for analyzing experimental data of the decay type with special reference to the use of tracers in biological system

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## VOLUME 7—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA

62-001me to 62-107me

- |   |                |
|---|----------------|
| <b>American Geophysical Union</b> (1962)<br>43rd Annual meeting   | MG<br>62-001me |
| <b>NATO, Sub-Committee on Oceanography</b> (1962)<br>1st Meeting of working group on Mediterranean Productivity Project   | M<br>62-002me  |
| <b>British Institution of Radio Engineers/Institute of Physics/<br/>Physical Society/University of Birmingham, Electrical Engineer-<br/>ing Department</b> (1962)<br>Symposium on sonar systems | MF<br>62-003me |
| <b>ICSU, Abstracting Board</b> (1962)<br>Triennial general assembly   | G<br>62-004me  |
| <b>ICSU, Abstracting Board</b> (1962)<br>Meeting of the Executive Committee<br>(In conjunction with triennial general assembly)   | G<br>62-005me  |
| <b>ICSU, Abstracting Board</b> (1962)<br>Meeting of the Editors Committee<br>(In conjunction with triennial general assembly)   | G<br>62-006me  |
| <b>NATO</b> (1962)<br>Conference of the Advanced Study Institute on "Algae and man"   | M<br>62-007me  |
| <b>Water Research Association</b> (1962)<br>Symposium on measurements in hydrology  | F<br>62-008me  |
| <b>IOC</b> (1962)<br>1st Meeting, coordination group for the International Co-operative<br>Investigations of the Tropical Atlantic (ICITA)  | M<br>62-009me  |

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- Lima, Universidad Agraria, Facultad de Zootecnia (1962)** M  
62-010me  
El desarrollo de la pesqueria en el Perú (The development of fisheries in Peru). Symposium
- WMO (1963)** MG  
62-011me  
Working group on requirements in connexion with the exchange of meteorological information by facsimile of regional association VI (Europe)
- IAEA (1963)** G  
62-012me  
Meeting of panel on revision of regulations for the safe transport of radioactive material
- University of Michigan, Dept. of Marine and Nuclear Engineering (1963)** M  
62-013me  
Symposium on advanced marine engineering concepts for increased reliability
- WMO/IUGG (1963)** MG  
62-014me  
International symposium on numerical weather forecasting
- OECD (1963)** F  
62-015me  
Working party on study of detergents in water. (Participation of laboratories from 12 member countries of OECD)
- WHO (1963)** G  
62-016me  
EURO—programme planning meeting
- USPHS, Division of Water Supply and Pollution Control (1963)** F  
62-017me  
Technical symposium on stream-flow regulation for quality control
- GFCM (1963)** MF  
62-018me  
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- International Sedimentological Congress (1963)** G  
62-019me  
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- OECD (1963)** F  
62-021me  
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<b>IPFC (1963)</b> 36th Statutory meeting of the executive committee	MF 62-023me
<b>ECE (UN) (1963)</b> Meeting of a group of experts on questions concerning administrative water pollution control	MF 62-024me
<b>IWC (1963)</b> 3rd Meeting of the special committee of three scientists	62-025me
<b>Water Resources Development Center, United Nations, N. York (1963)</b> 10th Inter-agency meeting on international co-operation with respect to the development and utilization of water resources	F 62-026me
<b>UNESCO (1963)</b> Preparatory meeting for international conference on organization of research and training of personnel in Africa	G 62-027me
<b>FBA (UK) (1963)</b> Annual general meeting	F 62-028me
<b>Zoological Station of Naples (1963)</b> Conferenza sulla storia e biologia del Lago Trasimeno—by Prof. G. Moretti (Conference on the history and biology of Lago Trasimeno—by Prof. G. Moretti)	F 62-029me
<b>OECD (1963)</b> 7th Fisheries committee meeting	MF 62-030me
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<b>Challenger Society/Representatives from the Marine Laboratories (1963)</b> Joint meeting	M 62-032me
<b>ECE (UN) (1963)</b> Inter-secretariat meeting on water questions	MF 62-033me

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| <b>IAEA (1963)</b><br>Meeting of panel on standard methods of contamination measurements  | MF<br>62-034me |
| <b>Academy of Sciences of Australia (1963)</b><br>Symposium on water resources use and management                               | F<br>62-035me  |
| <b>IAIBS/American Fisheries Society/ASLO (1963)</b><br>General session and session on sampling problems in the aquatic sciences | MF<br>62-036me |
| <b>North-East Atlantic Fisheries Commission (1963)</b><br>1st Meeting   | M<br>62-037me  |
| <b>IMCO (1963)</b><br>7th Session of the maritime safety committee  | M<br>62-038me  |
| <b>IUCN (1963)</b><br>9th Technical meeting   | FG<br>62-039me |
| <b>West European Fishery Conference (1963)</b>  | MF<br>62-040me |
| <b>ECE (UN) (1963)</b><br>Meeting of a group of experts on water quality criteria for industrial use                            | F<br>62-041me  |
| <b>UNESCO (1963)</b><br>Meeting of working party on scientific publications   | G<br>62-042me  |
| <b>Systematics Association (1963)</b><br>Symposium on the past and the present marine organisms and their environment           | M<br>62-043me  |
| <b>IAEA (1963)</b><br>Meeting of panel on radiological protection services for small nuclear establishments (II)                | G<br>62-044me  |
| <b>International Association of Fish Meal Manufacturers (1963)</b><br>4th Annual conference                                     | M<br>62-045me  |
| <b>IMCO (1963)</b><br>9th Session of Council  | M<br>62-046me  |

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<b>UNESCO/IOC Bureau (1963)</b> Meeting	M 62-048me
<b>GCFI (1963)</b> 16th Annual session	M 62-049me
<b>SCOR (ICSU) (1963)</b> Meeting of working group on abstracts and bibliographies of use in marine sciences	M 62-050me
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<b>ICSU (1963)</b> Ordinary session of general assembly	MF 62-052me
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| <b>International Association of Game, Fish and Conservation Commissioners (1964)</b><br>Annual meeting<br>(In conjunction with the American Fisheries Society annual meeting) | MF<br>62-060me |
| <b>Water Pollution Control Federation (1964)</b><br>37th Annual meeting   | MF<br>62-061me |
| <b>ECE (UN) (1963)</b><br>Meeting of a group of experts on the rational utilization of water resources  | F<br>62-062me  |
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| <b>OECD (1963)</b><br>Meeting of the group of experts to study the methods of determining the composition and condition of the water of streams                               | F<br>62-064me  |
| <b>IAEA (1963)</b><br>Meeting of panel on radiation protection guides for emergency exposure of the public  | G<br>62-065me  |
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| <b>Royal Astronomical Society, London (1963)</b><br>Meeting on the origin and constitution of the planets   | MG<br>62-067me |
| <b>ICES (1963)</b><br>Working group on international young herring surveys  | M<br>62-068me  |
| <b>ICES (1963)</b><br>North Sea herring working group   | M<br>62-069me  |
| <b>ICES (1963)</b><br>Working group on international forecasting of herring fisheries in the North Sea  | M<br>62-070me  |
| <b>ICES (1963)</b><br>Editing group for the joint summer cruises in the Norwegian Sea   | M<br>62-071me  |
| <b>ICES (1963)</b><br>Atlanto-Scandinavian herring working group  | M<br>62-072me  |



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<b>International symposium on humidity and moisture (1963)</b>	G 62-074me
<b>Operations Research Society of America (1963)</b> 23rd National meeting	GF 62-075me
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<b>IAEA (1963)</b> Meeting of Board of Governors	MG 62-080me
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2nd Coombs A. V. (1962)	06530	Cowden, R. R. (1961)	01893
2nd Cooper, A. C. (1962)	06418	Cowden, R. R. & J. R. Coleman	
2nd Cooper, A. L. (1961)	05072	(1962)	06514
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(1961)	01264	2nd Cowey, C. B. & K. W. Daisley	
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2nd Copes, P. & W. R. Stevenson		Cox, L. R. (1960)	04785
(1961)	02126	Cox, R. A. <i>et al.</i> (1962)	02320
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2nd Corner, E. D. S. (1962)	01912	Craig, R. E. (1961)	05266
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3rd Corroller, Le, Y. (1960)	04322	Criou, R. (1961)	00276
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(1961)	03915	Crisafi, P. (1960)	00097 00098
3rd Corwin, N. (1961)	03507		00101 01851
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2nd Costello, T. J. (1962)	04855	Crisp, D. J. (1960)	04757
Costemalle, B. (1960)	05602	Crisp, D. J. (1961) & B. Patel	
Costa Rica, Laws, Statutes, etc.		(1961)	01301
(1961)	06170	Crisp, D. J. (1962)	02473
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Cott, H. B. (1961)	02802	N. Baleanu (1961)	05313
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(1961)	01313	(1962)	06861
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(1962)	06776	2nd Cross, F. B. (1960)	04514

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	00795 02504	Delaware University. Depart- ment of Biological Sciences (1961)	06069
2nd Dawson, L. H. (1961)	02841	Della Croce, N. (1959)	01850
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		00411	00416	00424	01717	01720	01727	01728
		00439	00443	00444	01730	01732	01734	01736
		00468	00470	00471	01738	01746	01751	01799
		00480	00488	00499	01827	01828	01879	01981
		00502	00504	00513	01990	01991	01993	01995
		00527	00528	00537	01998	02000	02002	02003
		00543	00562	00575	02005	02007	02008	02017
		00605	00615	00640	02018	02019	02021	to
		00753	00767	00872	02024	02026	02028	to
		00875	00876	00878	02033	02035	to	02039
		00880	00883	to	02053	02054	02057	02108
		00895	to	00901	02132	02150	02152	02160
		00907	00908	00910	02162	02166	02170	02173
		00914	00926	00947	02185	02186	02194	02196
		00981	00983	00989	02206	to	02210	02212
		01001	01006	01028	02219	02226	02227	02229
		01035	01036	01038	02230	02231	02233	02234
		01042	01055	01056	02235	02238	02239	02240
		01060	to	01065	02242	02248	02251	02253
		01069	01071	01074	02261	02263	02269	02272
		01079	01081	to	02273	02274	02276	02292
		01088	to	01092	02299	02306	02307	02311
		01100	01102	01104	02313	02318	02352	02388
		01108	01109	01112	02418	02551	02558	02560
		01118	01120	01121	02562	02563	02565	02568
		01125	01127	01129	02570	02571	02572	02574
		01143	01145	01148	02575	02579	to	02583
		01156	01158	01160	02585	02586	02588	to
		01163	01175	01176	02591	02594	to	02600
		01226	01239	01242	02607	02634	02637	02641
		01246	01257	01267	02670	02680	02683	02695
		01273	01298	01316	02696	02703	02750	02751
		01338	01339	01342	02753	02754	02764	02765
		01345	01346	01352	02768	02769	02770	02772
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		01361	01364	01366	02788	02798	02802	02803
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02913	02921	02932	02948	04943	04945	04949	04971
02951	03003	03006	03025	04992	04995	05015	05021
03038	03040	03041	03042	05025	05038	05039	05065
03054	03056	03062	03067	05067	05075	05076	05086
03092	03103	03105	03167	05100	05113	05129	05131
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03179	03182	to	03187	05162	05164	05168	05169
03190	to	03194	03197	05173	05182	05190	05191
03198	03199	03201	03212	05195	05201	05202	05203
03214	to	03219	03222	05224	05228	05245	05278
03223	03225	03242	03246	05281	05282	05288	05294
03253	03268	03277	03278	05301	05305	05310	05313
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03467	03468	03483	03495	05467	05470	05471	05480
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03741	03743	to	03747	05631	05635	05637	05638
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03760	03764	03775	03776	05651	05652	05656	05660
03784	03801	03804	03812	05664	05670	05671	05674
03814	03865	03887	03902	05678	05686	05687	05689
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03964	03971	03984	03986	05780	05801	05807	05808
03990	03991	03993	03997	05817	05827	05829	05902
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04431	04435	04448	04450	05999	06018	06019	06047
04455	04457	04475	04480	06059	06068	06076	06081
04483	04486	04508	04519	06086	06089	06091	06094
04520	04521	04523	04549	06099	06103	06117	06118
04579	04582	04585	04589	06136	06164	06169	to
04593	04596	04598	04600	06174	06186	06192	06195
04603	04604	04607	04608	06198	06199	06201	06204
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06715	06750	06757	06759	04160	04161	04164	04165
06762	06763	06778	06779	04167	04169	04170	04181
06791	06792	06793	06795	04186	04194	04196	04203
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037me	040me		049me	04707	04710	04721	04738
057me	058me		059me	04773	04790	04969	05009
060me	077me		085me	05017	05065	05123	05137
087me	088me		092me	05176	05182	05185	05226
				05285	05286	05319	05320
				05325	05332	05339	05341
				05343	05344	05359	05360
				05372	05385	05432	05607
				05693	05761	05794	05823
				05842	05844	05849	05864
				06017	06021	06065	06088
				06311	06323	06335	06354
				06433	06443	06463	06464
				06483	06520	06546	06564
				06599	06752	06811	06840
				029me	032me		043me
				079me	092me		

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00020	00043
00057	00100
00112	00119
00126	00127
00137	00142
00177	00182
00218	00223
00377	00560
00648	00676
00723	00725
00733	00738
00757	00760
00785	00786
00852	00968
01172	01210
	to 01260
	to 01267
01277	01280
01488	01489
01704	01733

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2,05	<i>Bythotrephes</i>			04172		<i>Euchirella</i>			05848
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		04136	05340				05639	05848	
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		00138	00744	00757	00760	<i>Eurytemora</i>			00741
		01279	02277	02492	02830	<i>Gaëtanus</i>			05848
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		04722	04723	04724	05308	<i>Herpyllobius</i>			02648
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2,06	<i>Chlamydotheca</i>			00863		<i>Lepeophtheirus</i>			03087
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		01865	01866	01967	04589		02436	05622	
		05323	06526			<i>Lernaenicus</i>			03235
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2,08	<i>Cypridina</i>	01479	04793	04794		<i>Myocheres</i>			03889
2,09	<b>COPEPODA</b>	00143	00946	01850		<i>Oithona</i>			03636
		01856	01858	03075	03078	<i>Oncaea</i>			02047
		04136	04988	05327	05340	<i>Paracyclops</i>			04717
		05500	05589	06516		<i>Paralepeopsyllus</i>			01845
2,10	<i>Acanthocyclops</i>		03097	04717		<i>Pontella</i>			00098
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		05838	05839			<i>Xanthocalamus</i>			05848
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		02490	04174	04712			04757	04760	06499
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5,07	SALIENTIA								06748
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		029me							
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		00968	01704	02449	03325				
		03451	03452	04024	04025				
		04032	04033	04123	04551				
		04555	05596	06744					
5,31	<i>Caretta</i>						05041	06646	
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		04043	04941	04963	05453				
		05685	06043	06354					
	<i>Chelonia</i>		01524	05041	06038				
		06624	06646						
	<i>Chelydra</i>							05041	
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	<i>Dermochelys</i>	05041	06644	06646				05666	
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5,62	<i>Pelecanus</i>	02059	05665			<i>Ichthyobodo</i>			05622
	<i>PHALACROCORACIDAE</i>		05038			<i>MASTIGOPHORA,</i>			
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5,64	<i>ANSERIFORMES</i>		02165			<i>Pontosphaera</i>			02469
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04328	04329	04398	04399	03157	03158	03162	03163
04436	04693	04726	04732	03590	03633	03668	03671
04733	04734	04740	04743	03673	03695	03700	03701
04746	04757	04760	04761	03702	03705	03706	03708
04762	04763	04764	04766	04164	04177	04180	04198
04773	04776	04780	04782	04220	04221	04236	04249
04784	04791	04793	04794	04714	04727	04731	04737
04798	04897	04956	04965	04739	04742	04744	04748
to	04969	04971	04980	04749	04753	04756	04769
05008	05013	05056	05057	04770	04771	04774	04777
05069	05349	05352	05355	04778	04781	04783	04784
05356	05362	05369	05370	04786	to	04789	04792
05376	05380	05383	05390	04795	04800	to	04803
05404	05553	05619	05628	04805	04808	04809	04811
05846	05878	05891	05895	04813	05310	05348	05354
05980	05988	06017	06063	05357	05361	05363	05373
06070	06071	06072	06457	05379	05381	05382	05384
06459	06465	06475	06480	05387	05389	05391	05393
to	06483	06485	06486	05395	to	05402	05405
06487	06489	06490	06492	05683	05814	05815	05856
06493	06498	06499	06502	to	05859	05866	05868
06503	06504	06506	06507	05873	05874	05879	05887
06511	06514	06515	06516	05888	05889	05894	05897
06524	06525	06535	06574	05901	06419	06454	06458
06667	06689	06771	06798	06460	06466	06471	06478
4.5 <i>Phytobenthos</i>	00179	00181	00187	06479	06484	06488	06495
00209	00210	00227	00233	06496	06497	06500	06505
00235	00238	to	00241	06513	06521	06522	06528
00245	00247	00248	00253	to	06533	06537	06538
to	00256	00490	00491	06540	06542	06544	
00519	00548	00639	00719	007me	073me	104me	
00750	00758	00778	00793				
00794	00795	00810	00818				
00847	to	00851	00853				
00855	00906	01142	01177				
01239	01255	01282	01284				
to	01287	01289	01293				
01295	01299	01306	01318				
01320	01323	01326	01327				
01328	01332	01333	01334				
01832	01876	01881	01886				
01889	01904	01912	01935				

5. FISHING (see also 6.8)

5.1 <i>Statistical returns</i>	00257	00260
	00261	00274
	00279	00290
	00887	01348
	01351	01352
	01363	01372
	01994	02009
	to	02016
	02018	02132
	02562	02572
	02573	02587
	02594	02600
	02650	02653
	02658	03180
	03185	03186
	03203	03204

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	03722	03740	03741	03742		05910	05918	to	05922
	03748	04258	04262	04278		05927	05939	06563	06565
	04281	04600	04864	04887		06572	06573	06575	06581
	05019	05164	05411	05416		06582	06583	06591	06606
	05417	05418	05421	05429		06804	003me		
	05430	05441	05450	05452					
	05453	05456	05460	05463	5.4	00271	00272	00280	00281
	05470	05593	05703	05902		00284	00292	00304	00584
	05903	05907	05908	05911		00615	00616	00873	00875
	05943	06569	06570	06571		00883	00886	00888	00889
	06598	06600	06608	06609		00890	00897	00901	01226
	06611	06671	06808	06809		01354	01364	01367	01368
5.2	06810	06812	06835	06836		01378	01379	01380	01751
<i>Vessels</i>	00263	to	00268	00270		01990	01998	02000	02001
	00868	00882	01337	01340		02006	02008	02019	02024
	01355	01356	01357	01359		02029	to	02033	02558
	01374	01375	01429	02003		02564	02570	02571	02579
	02026	03187	03717	03719		02580	02581	02586	02588
	03732	04256	04259	04266		02595	03166	03171	03173
	04271	04283	04615	04829		03176	03178	03179	03180
	04830	04834	04853	05413		03182	03183	03184	03190
	05419	05449	05529	05912		03192	03194	03201	03202
	to	05917	05944	06561		03209	03215	03218	03219
	06566	06574	06576	06599		03222	03223	03224	03356
	06639	020me	038me			03657	03713	03714	03715
	046me	095me				03720	03734	03735	03738
5.3	00262	00275	00276	00282		03747	03753	03760	03946
<i>Gear</i>	00286	00291	00869	00870		04257	04260	04262	04264
	00872	00877	00879	00880		04265	04267	to	04270
	00891	00892	00898	00937		04275	04276	04280	04281
	01316	01335	01341	to		04282	04284	04286	04288
	01345	01347	01353	01358		04289	04290	04410	04420
	01345	01347	01353	01358		04421	04590	04598	04816
	01360	01361	01362	01371		04821	04824	04839	04840
	01376	01377	01519	01997		04854	04859	04946	04977
	02002	02004	02017	02028		05164	05169	05410	05423
	02100	02556	02559	02560		05425	05427	05428	05432
	02565	02566	02569	02575		05437	05439	05442	05443
	to	02578	02582	02585		05445	05447	05454	05520
	02592	02596	02598	02599		to	05523	05902	05905
	02601	02602	03167	03170		05906	05926	05928	05931
	03172	03181	03188	03191		05936	05937	05939	05940
	03199	03210	03211	03220		06510	06547	06548	06551
	03221	03225	03721	03723		to	06559	06567	06569
	03724	to	03727	03729		06571	06584	06585	06586
	03730	03731	03736	03737		06588	06589	06590	06594
	03743	03749	03761	03916		06596	06601	06610	06618
	03917	03980	04255	04256		010me	040me		
	04277	04285	04827	04831	5.5	00085	00269	00270	
	04832	04833	04838	04856	<i>Fish technology</i>	00273	00293	to	00341
	04857	04858	04860	04865		00549	00874	00899	00903
	04869	04947	05350	05372		to	00914	01346	01381
	05412	05414	05415	05422		to	01462	01472	01820
	05435	05436	05438	05444		01991	01992	01996	02005
	05446	05455	05461	05471		02025	02027	02035	to
	05494	05498	05582	05904		02040	02352	02388	02561

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02567 02603 02604 02605  
 02608 03174 03175 03193  
 03751 04273 04412 04435  
 04822 04835 04866 04874  
     to 04880 04896 05424  
 05444 05931 05945 to  
 05980 05983 to 05987  
 06045 06139 06478 06549  
 06550 06577 to 06580  
 06615 06616 06617

5.6 *Economics of fishing* 00876 01365  
 01370 01993 01995 02590  
 02593 03195 03196 03197  
 03201 03209 03712 03716  
 03718 04282 04290 04826  
 04836 04837 04863 04867  
 05443 05454 05459 05464  
 05929 05930 05933 05935  
 06587 06607 030me  
 037me 058me

6. AQUATIC STOCKS

6.0 *General biology* 00350 00355 00375  
 00390 00409 00434 00478  
 00501 00919 00922 00923  
 00930 00931 01012 01013  
 01464 01509 01510 01511  
 01543 01562 01564 02080  
 02095 02111 02161 02168  
 02615 to 02618 02630  
 02633 02638 02671 02677  
 02693 02715 02755 02791  
 02802 02827 03233 03251  
 03274 03275 03276 03279  
 03294 03301 03302 03303  
 03314 03349 03351 03366  
 03367 03368 03785 03786  
 03792 03795 03799 03800  
 03804 03818 03896 03908  
 03918 04301 04332 04334  
 04339 04345 04347 04355  
 04372 04376 04396 04405  
 04439 04453 04494 04504  
 04533 04545 04633 04852  
 04883 04884 04941 04951  
 04960 04961 04963 04975  
 04981 05004 05005 05040  
 05041 05064 05066 05068  
 05092 05096 05475 05489  
 05506 05511 05519 05524  
 05525 05543 05549 05551  
 05564 05571 05574 05583  
 05591 05592 05596 05600  
 05606 05640 05642 05657

05675 05679 06009 06011  
 06026 06039 06042 06043  
 06044 06046 06047 06083  
 06090 06094 06115 06129  
 06625 06630 06641 06644  
 06647 06657 06666 06670  
 06675 06680 06700 06703  
 06753 06755 06758

6.1 *Systematics* 00006 00229 00342  
 00348 00351 00352 00357  
 00365 00379 00454 00455  
 00467 00477 00483 00484  
 00487 00504 00508 00517  
 00533 00534 00539 00540  
 00541 00951 00958 00962  
 00964 00978 01006 01015  
 01016 01019 01465 01466  
 01468 01469 01476 01492  
 01501 01508 01523 01525  
 01538 01553 01559 01565  
 01576 01596 01597 02042  
 02048 02060 02061 02062  
 02071 02072 02075 02084  
 02097 02107 02126 02129  
 02138 02157 to 02160  
 02199 02612 02619 02620  
 02625 02635 02645 02669  
 02688 02690 02691 02695  
 02697 02700 02711 02714  
 02753 02767 02774 02797  
 02804 02810 02820 02828  
 02872 03234 03237 03244  
 03245 03260 03262 03263  
 03267 03268 03270 03291  
 03292 03334 03335 03336  
 03340 03341 03362 03363  
 03364 03764 03766 to  
 03769 03773 03774 03789  
 03793 03794 03796 03797  
 03798 03806 03898 03899  
 03900 03904 03912 03919  
     to 03922 03959 03967  
 03970 03974 03981 04311  
 04336 04348 04349 04364  
 04365 04366 04371 04380  
 04381 04404 04414 04433  
 04461 04464 04465 04469  
 04474 04477 04500 04501  
 04503 04514 04515 04517  
 04518 04532 04538 04886  
 04894 04899 04944 04948  
 04949 04952 04958 04964  
 04994 05012 05015 05020  
 05024 05028 05039 05041  
 05044 05054 05058 05059  
 05076 05078 05121 05477

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05577	05580	05581	05613	05512	05515	to	05518
05630	05643	05645	05667	05532	05533	05565	05569
05668	05670	05671	05684	05591	05601	05630	05656
05996	05999	06008	06025	05660	05672	05841	06021
06027	06029	06038	06051	06054	06055	06060	06074
06052	06068	06077	06078	06080	06088	06105	06111
06079	06095	06098	06106	06120	06380	06435	06560
06114	06115	06118	06119	06562	06612	06619	06620
06121	06122	06622	06629	06622	06629	06632	06646
06635	06636	06673	06677	06649	06652	06653	06656
06681	06683	06693	06694	06661	06676	06709	06714
06711	06713	06740	06741	06741	06745	06748	06759
06745	06754	06759	06764	06763	028me	039me	
06768	06772	06780	06781	6.3 <i>Physiology and behaviour</i>			00081
6.2 <i>Distribution and ecology</i>				00114	00137	00291	00334
00348	00355	00361	00362	00342	00353	00354	00360
00373	00374	00376	00377	00368	00381	00382	00384
00378	00400	00403	00404	to	00388	00392	00393
00405	00407	00410	00433	00411	00412	00416	00419
00438	00439	00448	00449	00428	00430	00431	00432
00479	00480	00504	00505	00435	00437	00442	00443
00517	00521	00545	00873	00444	00447	00452	00466
00932	00933	00941	00942	00478	00483	00484	00485
00949	00950	00952	00953	00509	00510	00512	00514
00957	to	00960	00963	00520	00529	00530	00531
00992	01263	01466	01468	00533	00535	00536	00642
01497	01500	01503	01505	00753	00913	00915	00917
to	01508	01513	01515	00918	00920	00921	00924
01520	01541	01544	01551	00926	00927	00934	00939
01552	01553	01567	01601	00943	00944	00945	00948
01998	02041	02044	02048	00955	00965	00966	00967
02053	02058	02069	02076	00973	00976	00979	00981
02081	02088	02090	02103	00983	00988	00989	00991
02106	02107	02116	02117	00995	00996	01003	01004
02120	to	02123	02128	01017	01019	01023	01024
02143	02162	02192	02558	01027	01032	01033	01176
02608	02623	02627	02630	01231	01233	01239	01241
02639	02642	02650	02676	01242	01470	01472	01473
02681	02682	02694	02751	01475	01477	to	01482
02752	02765	02825	03234	01492	01495	01497	01513
03239	03241	03244	03246	01514	01517	01527	01530
03247	03265	03266	03271	01532	01533	01534	01537
03272	03300	03306	03310	01539	01546	01548	01558
03320	03333	03350	03375	to	01561	01563	01568
03380	03616	03711	03758	01575	01580	01581	01583
03763	03771	03772	03778	01598	01599	01601	01607
03783	03789	03901	03908	01609	01610	01799	01864
03910	03913	03924	03926	02057	02067	02079	02082
03927	03928	03932	03964	02090	02099	02104	02105
03970	03985	04157	04315	02108	02109	02110	02113
04317	04324	04361	04368	02118	02119	02135	02137
04374	04382	04423	04425	02142	02148	02149	02153
04427	04442	04898	04949	02164	02171	02177	02178
04952	05027	05037	05039	02181	02184	02185	02187
05065	05080	05108	05115	02189	to	02192	02197

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02388	02567	02568	02596	05099	05102	05103	05113
02597	02606	02624	02626	05114	05116	to	05119
02628	02637	02640	02642	05290	05293	05308	05310
02673	02675	02678	02683	05472	05473	05474	05478
02685	02689	02696	02698	05480	05481	05488	05510
02702	to	02705	02708	05514	05526	05527	05528
02710	02745	02747	02748	05540	05541	05542	05544
02749	02753	02762	02764	05546	05548	05554	05555
02766	02771	02773	02777	05559	05560	05563	05576
02779	02781	02784	02785	05578	05585	05595	05598
02789	02792	02793	to	05599	05612	05614	to
02796	02799	02803	02808	05617	05620	05621	05623
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02820	02829	02966	03038	05646	05650	05653	05654
03040	03041	03051	to	05658	05665	05673	05674
03054	03227	to	03230	05676	05677	05681	05682
03233	03238	03241	03242	05691	05941	05942	05989
03243	03248	03249	03254	to	05993	06010	06014
03255	03258	03261	03264	06020	06023	06034	to
03269	03280	03288	03289	06037	06041	06050	06057
03290	03293	03294	03298	06058	06059	06061	06062
03307	03312	03313	03319	06064	06075	06076	06081
03324	03325	03327	03331	06084	06085	06087	06095
03335	03346	03357	03358	to	06098	06102	06103
03360	03361	03368	03369	06104	06106	06108	06110
03374	03377	03378	03379	06119	06125	06128	06356
03381	03388	03598	03762	06382	06413	06414	06415
03770	03775	03780	03790	06417	06615	06616	06617
03809	03810	to	03814	06621	06623	06624	06633
03816	03876	03895	03897	06637	06642	06650	06651
03905	03923	03925	03930	06662	06665	06668	06669
03934	03935	03938	03940	06682	06690	06705	06710
03948	03949	03950	03957	06723	06741	06742	06743
03958	03961	03965	03977	06745	06746	06747	06756
03978	03982	03989	04098	06760	06766	06769	06770
04308	04330	04337	04353	06773	06775	06786	06787
04357	04367	04369	04381	032me			
04397	04400	04406	04417	6.4 Parasites, diseases, abnormalities			
04424	04434	04462	04463	00343	00346	00347	00371
04469	04473	to	04476	00372	00383	00397	00398
04478	04479	04481	04482	00406	00408	00413	00415
04490	04498	04502	04503	00441	00445	00446	00451
04508	04513	04515	04534	00456	00458	00459	00461
to	04537	04541	04543	to	00465	00469	to
04814	04815	04884	04888	00476	00489	00493	00502
04892	to	04895	04940	00507	00513	00514	00515
04945	04954	04962	04968	00522	00538	00544	00548
04969	04970	04978	04979	00925	00928	00947	00975
04985	04988	04989	04994	00993	00994	00998	01000
04995	05007	05017	05018	01002	01005	01007	01020
05021	05026	05030	to	01026	01029	01474	01483
05034	05038	05042	05043	01484	01485	01493	01516
05045	05048	05050	05051	01521	01522	01524	01534
05058	05061	05063	05072	01536	01555	01584	01587
05074	05081	05086	05087	to	01590	01600	01608

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02066	02073	02077	02092	03894	03918	03947	03969
02098	02112	02154	02165	03984	04298	04305	04314
02166	02167	02175	02176	04323	04359	04373	04376
02179	02180	02436	02613	04389	04390	04392	to
02649	02660	02670	02672	04395	04403	04406	04407
02684	02686	02713	02746	04419	04422	04437	04440
02763	02780	02783	02786	04442	04444	04469	04485
02787	02800	02805	02815	04487	04490	04491	04546
02821	03087	03231	03235	04847	04849	04882	04887
03323	03329	03332	03346	04898	04922	04972	04975
03788	03791	03890	03891	05006	05020	05038	05065
03892	03909	03911	03914	05070	05071	05080	05082
03931	03941	03960	03966	05084	05090	05093	05097
03971	03979	03986	04322	05098	05099	05106	05109
04327	04341	04342	04343	05120	05121	05471	05476
04363	04377	04378	04379	05485	05499	05503	05504
04382	04383	04384	04386	05507	05529	05539	05549
04387	04446	04448	04455	05551	05556	05557	05558
to	04460	04466	04483	05564	05568	05572	05586
04488	04499	04519	to	05593	05607	05609	05611
04530	04535	04539	04540	05681	05721	05808	05827
04950	04971	04982	05006	05994	06001	06002	to
05008	05010	05035	05052	06007	06012	06018	06019
05053	05060	05073	05077	06022	06028	06030	06031
05100	05101	05112	05483	06065	06074	06092	06095
05484	05487	05500	05501	06107	06626	06627	06628
05502	05561	05579	05588	06634	06638	06639	06643
05589	05590	05622	05624	06650	06657	06663	06674
to	05627	05635	to	06711	06740	06751	06765
05639	05647	05648	05661	06805	06806	06807	06812
05663	05666	05669	05678	06837	06843		036me
05997	06015	06032	06073	070me			
06089	06091	06113	06116	6.6	<i>Selection by fishing gear</i>	01518	01602
06134	06135	06477	06631			01603	02768
06695	06702	06712	06767			02769	03297
06783				6.7	<i>Marking</i>	05566	05567
						05618	06628
						00389	00516
						00992	00994
						01018	01034
						02041	02050
						02086	02121
						02134	02203
						02564	02634
						02642	02754
						02778	03259
						03281	03299
						03382	03385
						03765	03937
						04320	04323
						04391	04394
						04471	04855
						05025	05106
						05193	05538
						05594	05597
						05603	05608
						06000	06080
						06109	06709
				6.8	<i>Fisheries for particular species or groups</i>	00004	00275
						00276	00283
						00434	00549
						00870	00923
						00929	00980
						01373	01377
						01379	01491
						01494	01519
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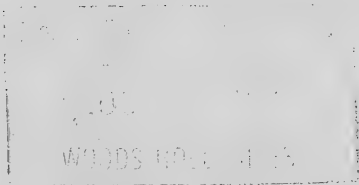


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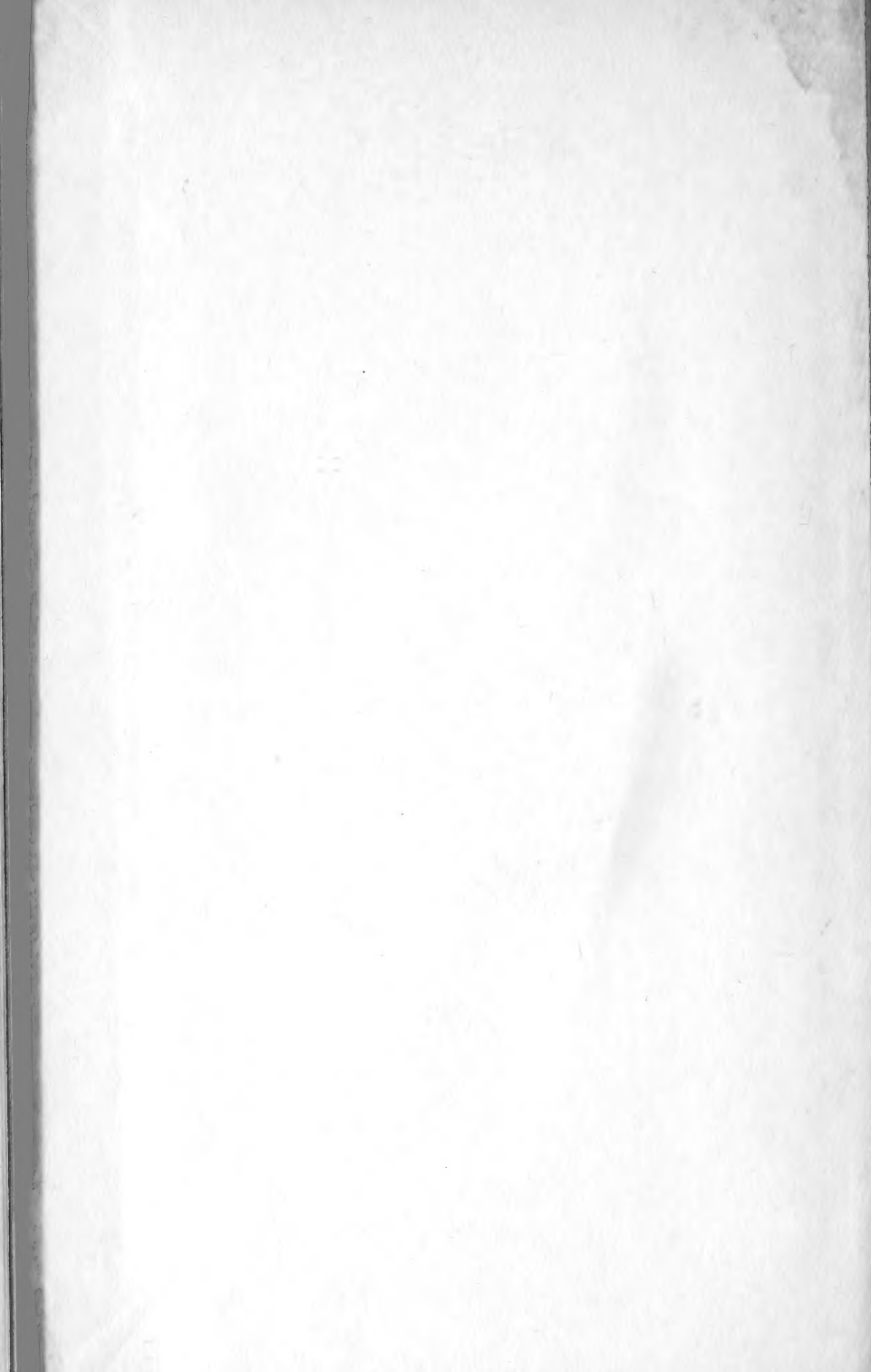
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