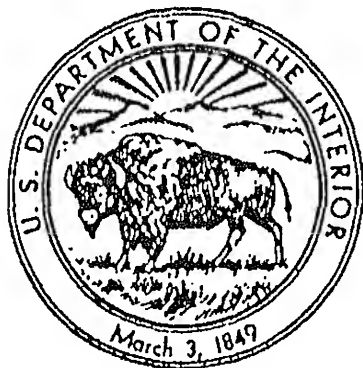


# Fisheries Review



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## AQUATIC PLANTS AND THEIR CONTROL

88-003683 Thompson, Boyd Z.; Jeffrey L. Underwood and Rue  
UTILIZATION OF TRIPLOID GRASS CARP IN SEWAGE-RETENTION POND  
OF FLOATING VEGETATION. *Fla. Sci.* 51(2):115-119. 1988. FR 33(4)  
[Game & Fresh Water Fish Comm., Fish. Res. Lab., P.O. Box 1903,  
1903] *Ctenopharyngodon idella* in Florida.

## GENERAL FISH CULTURE

88-003684 Benito, Javier. [ECONOMIC ASPECTS OF THE AQUACULTURE  
*Invest. Pesq.* 51(Suppl. 2):231-235. 1987. In Spanish with English summ.  
[Escuela Superior Montes, Madrid, Spain]

88-003685 Billard, R. RESEARCH ON FISH REPRODUCTION FOR THE  
TOMORROW. *Riv. Ital. Piscic. Ittlop.* 23(1):13-16, 19. 1988. In English  
33(4)  
[Mus. Natl. Hist. Nat., Ichtyol. Gen. & Appl., 43, Rue Cuvier, 75231  
France]

88-003686 Chattopadhyay, G. N.; P. K. Saha; Apurba Ghosh and H  
STUDY ON OPTIMUM BOD LEVELS FOR FISH CULTURE IN WASTEWATER  
*Wastes* 25(2):79-85. 1988. FR 33(4)  
[Central Inland Capture Fish. Res. Inst., Barrackpore-743 101, West Bengal]

88-003687 Donati, Francesco. [INVESTMENT YIELDS IN AQUACULTURE  
51(Suppl. 2):223-230. 1987. In Spanish with English summ. FR 33(4)  
[Via Olmo, 278.30030 Martellago, Venezia, Italy]

88-003688 Florida Agricultural Statistics Service. FLORIDA AQUACULTURE  
335 MILLION IN 1987. *Trop. Fish Hobbyist* 37(1):54-57. 1988. FR 33(4)

88-003689 Goussot, B. A NOTE ON EEL RESEARCH IN JAPAN. *Aquaculture*  
19(4):393-403. 1988. FR 33(4)  
[Danish Aquacult. Inst., 11 Agern Alle, DK-2970 Horsholm, Denmark]  
*A. anguilla*, and *A. rostrata*.

88-003690 Jacobsen, Pal and Lasse Berglund. PERSISTENCE OF OXYGEN  
SEDIMENTS FROM FISH FARMS. *Aquaculture* 70(4):365-370. 1988. FR 33(4)  
[Norwegian Inst. Water Res., P.O. Box 33, Blindern, 0313 Oslo 3, Norway]

88-003691 Juevas, Joan Manuel. [THE ECONOMICS OF AQUACULTURE  
AFFECTING THE PRODUCTION FUNCTION.] *Invest. Pesq.* 51(Suppl. 2)  
Spanish with English summ. FR 33(4)  
[Gran Via Ramon & Cajal, 28.46007 Valencia, Spain]

88-003692 Sarig, S. and Moshe Shilo. EFFECT OF LIGHT ON THE  
SURVIVAL OF *NITROSOMONAS* SP. AND *NITROBACTER* SP. ISOLATES

88-003693 Smith, T. I. J.; W. E. Jenkins; W. D. Oldland and  
DEVELOPMENT OF NURSERY SYSTEMS FOR REARING SHORTNOSE STURGEON.  
*Soc. Symp.* 1:550. 1987. Abstract only. FR 33(4)  
[Mar. Resour. Res. Inst., S.C. Wildl. & Mar. Resour. Dep., P.O. Box  
29412] *Acipenser brevirostrum*.

88-003694 Stevens, Robert E. AQUACULTURE: AN OVERVIEW FOR 1988.  
*Wildl. Nat. Resour. Conf.* 53:561-563. 1988. FR 33(4)  
[U.S. Fish & Wildl. Serv., Marion, AL]

88-003695 Teichert-Coddington, D. R.; N. Stone and R. P. Phelps. HYDRO-  
CULTURE PONDS IN GUALACA, PANAMA. *Aquacult. Eng.* 7(5):309-320. 1987.  
[Dep. Fish. & Allied Aquacult., Auburn Univ., Auburn, AL 36849]

#### TROUT AND SALMON CULTURE

88-003696 Albrektsen, Sissel; Oyvind Lie and Kjartan Sandnes. ASCORBIC ACID  
A DIETARY VITAMIN C SOURCE FOR RAINBOW TROUT (*SALMO GAIRDNERI*).  
*J. Aquacult. Res.* 71(4):359-368. 1988. FR 33(4)  
[Inst. Nutr., Dir. Fish., P.O. Box 4285, N-5028 Bergen, Norway]

88-003697 Barannikova, I. A. REVIEW OF STURGEON FARMING IN THE USSR.  
*Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 27(6):62-71. 1987. FR 33(4)  
*Scophthalmus* and *Acipenser*.

88-003698 Elrod, J. H. EFFECTS OF REARING DENSITY AND STOCKING RATE ON  
POST-STOCKING SURVIVAL OF HATCHERY-REARED LAKE TROUT IN  
*Int. Assoc. Great Lakes Res. Conf.* 30:A-18. 1987. Abstract only. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green  
MI 48105] *Salvelinus namaycush*.

88-003699 F.I.O.M. [TWO STUDIES FROM THE F.I.O.M. ON THE REARING OF  
NORWEGIAN REARED SALMONIDS AND THE MOVEMENT OF REARED SALMONIDS IN  
WATER.] *Equinox* No. 18. p. 11-17. 1988. In French. FR 33(4)

88-003700 Gunnerød, T. B.; N. A. Hvidsten and T. G. Heggberget. OPTIMAL  
OF ATLANTIC SALMON SMOLTS, *SALMO SALAR*, IN CENTRAL NORWAY.  
*Fish. Aquat. Sci.* 45(8):1340-1345. 1988. In English with French summ. FR 33(4)  
[Dir. Nat. Manage., Res. Div., Tungasletta 2, N-7004 Trondheim, Norway]

88-003701 Holm, J. C. and D. Møller. A SYNOPSIS OF SMOLT PRODUCTION IN  
A COASTAL FRESHWATER LAKE IN NORWAY. *Aquacult. Fish. Manage.* 1988.  
FR 33(4)  
[Dep. Fish. Biol., Univ. Bergen, P.O. Box 1839 Nordnes, N-5024 Bergen, Norway]

88-003702 Hortle, Michael E. DESIGN AND OPERATION OF A HIGH PERFORMING

03702 CONTINUED

Dep. Sea Fish., Tasm. Mar. Lab., Crayfish Point, Tarroona, Tasm. 7053, Australia) *Salmo salar*.

03703 Hossain, Md. Abul; Masayuki Furuichi and Yasuo Yona. PROXIMATE AMINO ACID COMPOSITION OF LIVER, HEMATOLOGICAL CHARACTERISTICS, AND CHEMICAL COMPONENTS IN PLASMA OF RED SEA BREAM FED ON SCRAP MATERIALS CONTAMINATED WITH MOLDS. *Nippon Suisan Gakkaishi* 54(8):1385-1389. 1988. In English (Jpn. Summ.)  
(Mar. Res. Lab., Kyushu Univ., Tsuyazaki, Fukuoka 811-33, Japan) *Pagrus major*.

03704 Hvidsten, N. A. and R. A. Lund. PREDATION ON HATCHERY-REARED BROOD SMOLTS OF ATLANTIC SALMON, *SALMO SALAR* L., IN THE ESTUARY OF FJERRELA, NORWAY. *J. Fish Biol.* 33(1):121-126. 1988. FR 33(4)  
(Inst. Nat. Manage., Tungasletta 2, N-7004 Trondheim, Norway) *Gadus morhua* and *Salmo salar*.

03705 Kaiser, H. and O. Schmitz. WATER QUALITY IN A CLOSED RECIRCULATING CULTURE SYSTEM INFLUENCED BY ADDITION OF A CARBON SOURCE IN RELATION TO FEED UPTAKE BY FISH. *Aquacult. Fish. Manage.* 19(3):265-273. 1988. FR 33(4)  
(Inst. Anat., Physiol. Hyg., Univ. Bonn, Katzenburgweg 7-9, 53 Bonn, West Germany) *Salmo gairdneri*.

03706 Khakimullin, A. A. OXYGEN PREFERENCE (PREFERRED OXYGEN REGIMEN) OF HATCHERY YOUNG OF THE SIBERIAN STURGEON, *ACIPENSER BAERI*. *J. Ichthyol. (Russ. J. Aquacult. Vopr. Ikhtol.)* 27(6):111-115. 1987. FR 33(4)  
(Siberian Sci.-Res. & Proj.-Construct. Inst. Fish., SibirybNIIproekt, Tyumen, USSR)

03707 Kojima, Hiroshi; Munehico Iwata; Mahito Miyamoto and Tadahide Kuroki. WATER ADAPTABILITY AND SERUM THYROXINE OF YEARLING MASU SALMON (*ONCORHYNCHUS MASOU*) SMOLTIFIED IN THREE DIFFERENT PROCESSES. *Sci. Rep. Hokkaido Fish Hatchery* No. 42, p. 53-56. 1987. In Japanese with English summ. FR 33(4)  
(Hokkaido Fish Hatchery, Hokkaido, Japan.)

03708 Lichatowich, James A. and John D. McIntyre. USE OF HATCHERIES IN THE MANAGEMENT OF PACIFIC ANADROMOUS SALMONIDS. *Am. Fish. Soc. Symp.* 1:13-17. 1988. FR 33(4)  
(Dep. Fish & Wildl., 303 Ballard Ext. Hall, Oreg. State Univ., Corvallis 97331) *Oncorhynchus ktsutch*.

03709 McIntyre, John D.; Alan R. Hemmingsen and Raymond C. Simon. SELECTIVE BREEDING TO INCREASE SURVIVAL OF SMOLTS IN FOUR SUCCESSIVE BROODS OF COHO SALMON. *Trans. Am. Fish. Soc.* 117(1):90-92. 1988. FR 33(4)  
(U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cent., Bldg. 204, Naval Stn., Seattle 98114) *Oncorhynchus ktsutch*.

03710 Nakano, Hiroshi and Soichiro Shirahata. [AN EVALUATION OF THE PHYSIOLOGICAL QUALITY OF HATCHERY REARED CHUM SALMON FRY (*ONCORHYNCHUS KISUTCH*)]. *Nippon Suisan Gakkaishi* 54(8):1263-1269. 1988. In Japanese with English summ.

TROUT AND SALMON CULTURE (CONTINUED)

88-003711 Reisenbichler, Reginald R. RELATION BETWEEN DISTANCE FROM NATAL STREAM AND RECOVERY RATE FOR HATCHERY COHO SALMON. *Fish. Manage.* 8(2):172-174. 1988. FR 33(4)

[U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cont., Bldg. 204, Naval Air Station, 98115] *Oncorhynchus kisutch* in Oregon and Washington.

88-003712 Roslyy, Yu. S.; N. M. Panasenko and N. F. Kaplankin. STRUCTURE OF HATCHERY STOCKS AND REPRODUCTION OF AUTUMN COHO SALMON (*ONCORHYNCHUS KETA*), OF THE AMUR RIVER. *J. Ichthyol. (Engl. Transl.)* 27(6):1-11. 1987. FR 33(4)

[Amur Branch, Pac. Fish. & Oceanogr. Res. Inst.-AOTINRO Khabarovsk]

88-003713 Shustov, Yu. A. and I. L. Shchurov. QUANTITATIVE ANALYSIS OF STAMINA OF WILD AND HATCHERY-REARED ATLANTIC SALMON (*Salmo salar*). *Aquaculture* 71(1/2):81-87. 1988. FR 33(4)

[Inst. Biol., Karelian Branch, USSR Acad. Sci., Petrozavodsk 185610, Karelia]

88-003714 Sigurdsson, Fridrik. AQUACULTURE IN ICELAND. *Riv. Ital. Acquacolt.* 23(1):5-6, 9-10. 1988. In English with Italian summ. FR 33(4)

88-003715 Smith, Robert R.; Harold L. Kincaid; Joe M. Regenstein and Robert L. Metcalfe. GROWTH, CARCASS COMPOSITION, AND TASTE OF RAINBOW TROUT (*Salmo gairdneri*) STRAINS FED DIETS CONTAINING PRIMARILY PLANT OR ANIMAL PROTEIN. *J. Fish. Res. Board Can.* 70(4):309-321. 1988. FR 33(4)

[Tunison Lab. Fish Nutr., U.S. Fish & Wildl. Serv., Cortland, NY 13820, *gairdneri*]

88-003716 Soivio, Antti; Erkki Virtanen and Marja Muona. DESMOLTIFICATION OF ACCELERATED BALTIC SALMON (*SALMO SALAR*) IN BRACKISH WATER. *Aquaculture* 71(1/2):89-97. 1988. FR 33(4)

[Div. Physiol., Dep. Zool., Univ. Helsinki, Arkadiankatu 7, SF-00100 Helsinki]

88-003717 Svealy, Tore L. INSHORE VERSUS OFFSHORE FARMING OF SALMON. *Aquaculture* 74(4):279-287. 1988. FR 33(4)

[Farmocean AB, Datavagen 14 A S-436 32 Askim, Sweden] *Salmo gairdneri*

88-003718 Swink, William D. THE EFFECT OF LAKE TROUT SIZE ON SEA LAMPREY ATTACK. *Int. Assoc. Great Lakes Res. Conf.* 30:A-57. 1988. FR 33(4)

[U.S. Fish & Wildl. Serv., Hammond Bay Biol. Stn., Rt. 1, Box 441, Marquette, MI 49759] *Salvelinus namaycush* and *Petromyzon marinus*.

WARMWATER CULTURE

88-003719 Ameen, Mahmud-ul; Pk. M. Motiur Rahman; Naseem A. Aleem; M. A. Rahman; Shahadat Ali and Z. Tahmida Begum. IDENTIFICATION OF CRITICAL POINTS IN FISH PRODUCTION IN SEMI-INTENSIVELY MANAGED FISH PONDS IN BANGLADESH. *J. Fish. Res. Board Can.* 70(4):309-321. 1988. FR 33(4)

- B-003720 Ferguson, Sandra. PROPAGATION OF *BARBUS VIVIPARUS* UNDER HARDY CONDITIONS. *Lammergeyer* No. 38, p. 55-59. 1987. FR 33(4)  
[Umgeni Warmwater Hatchery, P.O. Box 41, Cato Ridge 3680, South Africa]
- B-003721 Fineman-Kallo, A. S. PRELIMINARY OBSERVATIONS ON THE EFFICIENCY OF THE REPRODUCTION AND GROWTH OF FRESHWATER NILE TILAPIA (*OREOCHROMIS NILOTICUS* (L.)), CULTURED IN BRACKISHWATER PONDS. *Aquaculture Management* 19(3):313-320. 1988. FR 33(4)  
[Fac. Agric., Rivers State Univ. Sci. & Technol., PMB 5080, Port Harcourt, Nigeria]
- B-003722 Garcia, Luis Maria B. and Joebert D. Toledo. CRITICAL FACTORS INFLUENCING SURVIVAL AND HATCHING OF MILKFISH (*CHANOS CHANOS*) EGGS DURING SIMULATED TRANSPORT. *Aquaculture* 72(1/2):85-93. 1988. FR 33(4)  
[Aquacult. Dep., SEAFDEC, Tigbauan, Iloilo City, Philippines]
- B-003723 Gerochi, Dante D.; Melchor M. Lijauco and Dan D. Baliao. COMPARISON OF BROADCAST AND BROADCAST METHODS OF APPLYING ORGANIC FERTILIZER IN MILKFISH (*CHANOS CHANOS* (FORSSKAL)), PONDS. *Aquaculture* 71(4):313-318. 1988. FR 33(4)  
[Aquacult. Dep., Southeast Asian Fish. Dev. Cent., Tigbauan, Iloilo, Philippines]
- B-003724 Keenum, Mark E. and John E. Waldrop. ECONOMIC ANALYSIS OF FARM-SCALE MILKFISH PRODUCTION IN MISSISSIPPI. *Miss. Agric. For. Exp. Stn. Tech. Bull.* 1988. FR 33(4)  
[Miss. Agric. & For. Exp. Stn., Miss. State Univ., Mississippi State] *Ictalurus punctatus*
- B-003725 Kouril, J.; T. Barth and J. Hamackova. STRIPPING THE FEMALES OF MILKFISH (*SILURUS GLANIS* L.) WITH LH-RH ANALOG INDUCTION. *Pr. Vodnany* 1987. 62-68. 1987. In English with Czech summ. FR 33(4)  
[Vyzkumny ustav rybarsky & hydrobiol., 389 25 Vodnany, Czechoslovakia]
- B-003726 Mangalo, Hana H. and Manal M. Akbar. LIMNOLOGICAL INVESTIGATION OF THE AL-LATIFIYAH COMMON CARP (*CYPRINUS CARPIO*) POND (BAGHDAD - IRAQ). FEEDING AND FEEDING HABITS OF *CYPRINUS CARPIO* L. *J. Environ. Sci. Health Environ. Sci. Eng.* 23(6):513-524. 1988. FR 33(4)  
[Hay Al-Riyadh, 908/43/12, Baghdad, Iraq]
- B-003727 Marte, Clarissa L. AN IMPROVED METHOD FOR COLLECTING NATUALLY SPAWNING MILKFISH EGGS FROM FLOATING CAGES. *Aquaculture* 71(4):387-392. 1988. FR 33(4)  
[Southeast Asian Fish. Dev. Cent., Aquacult. Dep., Tigbauan, Iloilo, Philippines] *Chanos chanos*.
- B-003728 Merola, Nino and J. Henrique De Souza. CAGE CULTURE OF THE AMAZONIAN MILKFISH, *COLOSSOMA MACROPOMUM*, AT TWO STOCKING DENSITIES. *Aquaculture* 71(1/2):15-21. 1988. FR 33(4)  
[FAO-Proj. GCP/RLA/075/ITA Support Region. Aquacult. Atividades Latin Americanas, c.p. 07-1058, 70330 Brasilia, DF, Brazil]



88-003729 Murad, Areena Anna. EXPERIMENTS ON FERTILIZATION OF  
AND EVALUATION OF QUALITY AND QUANTITY OF EFFLUENTS FROM  
CHANNEL CATFISH PONDS. *Ph.D. dissertation, Auburn Univ.* 83p.  
Abstr. Int. B Sci. Eng. 49(2):269. 1988. FR 33(4)  
*Ictalurus punctatus* and *Lepomis* sp.

88-003730 Murad, Haider Ali. ACIDIFICATION AS ENVIRONMENTAL PROBLEM  
ON FISHPOND ECOLOGY. *Ph.D. dissertation, Auburn Univ.* 101p. 1987.  
Int. B Sci. Eng. 49(2):269. 1988. FR 33(4)  
*Lepomis* sp. and *Ictalurus punctatus*.

88-003731 Nerrie, Brian Lloyd. PRODUCTION FUNCTION ANALYSES OF  
CENTRAL ALABAMA CATFISH PRODUCTION PONDS. *Ph.D. dissertation.*  
93p. 1987. From Diss. Abstr. Int. B Sci. Eng. 49(2):269. 1988. FR 33(4)  
*Ictalurus* sp.

88-003732 Papoutsoglou, S. E. and G. A. Voutsinos. INFLUENCE OF FEEDING  
GROWTH RATE OF *TILAPIA AUREUS* (STEINDACHNER) REARED IN  
CIRCULATED SYSTEM. *Aquacult. Fish. Manage.* 19(3):291-298. 1988. FR 33(4)  
[Dep. Appl. Hydrobiol., Agric. Univ. Athens, 75 Iera Odos, Votaniki, Athens,  
Greece]

88-003733 Pokorny, J. REARING ADVANCED FRY OF CARP IN PONDS AT  
STOCK DENSITIES. *Pr. Vodnany* No. 16. p. 45-52. 1987. In English with  
33(4)  
[Vyzkumny ustav rybarsky & hydrobiol., 389 25 Vodnany, Czechoslovakia]

88-003734 Rowland, Stuart J. HORMONE-INDUCED SPAWNING OF  
FRESHWATER FISH MURRAY COD, *MACCULLOCHELLA PERCIFORMIS*  
(PERCICHTHYIDAE). *Aquaculture* 70(4):371-389. 1988. FR 33(4)  
[Dep. Agric., Inland Fish. Res. Stn., P.O. Box 182, Narrandine, South  
Australia]

88-003735 Sarig, S. THE FISH CULTURE INDUSTRY IN ISRAEL IN 1987.  
40(2):43-49. 1988. FR 33(4)  
[Lab. Res. Fish Dis., Nir-David, D.N. 19150, Israel]

88-003736 Sedana, I. Putu. DEVELOPMENT OF BENTHOS AND ITS EFFECT ON  
FISH PRODUCTION IN PONDS WITH ORGANIC LOADING. *Ph.D. dissertation.*  
118p. 1987. From Diss. Abstr. Int. B Sci. Eng. 49(2):270. 1988. FR 33(4)  
*Tilapia aurea* and *T. nilotica*.

88-003737 Shen Peirong and Xu Binchen. PEN CULTURE IN WULI LAKE.  
*Aquaculture* 71(4):301-312. 1988. FR 33(4)  
[Asian-Pac. Regional Res. & Training Cent. Integrated Fish Farming  
*Oreochromis aureus* and *Cyprinus carpio*.

003739 Swar, D. B. and T. B. Gurung. INTRODUCTION AND CAGE CULTURE OF CARPS AND THEIR IMPACT ON FISH HARVESTED IN LAKE BEGNAS, N. *Hydrobiologia* 166(3):277-283. 1988. FR 33(4)

[Otsu Hydrobiol. Stn., Kyoto Univ., Shimosakamoto, Otsu, Shiga, Japan] *Aristichthys nobilis*, *Hypophthalmichthys molitrix*, *Ctenopharyngodon idella*, *Cyprinus carpio*, and *Puntius gononotus*.

003740 Weisburd, Richard S. SILVER CARP (*HYPOPHTHALMICHTHYS MOLITRIX*) EFFECTS ON WATER QUALITY IN FRESHWATER PRAWN (*MACROBRACHIUM ROSENBERGII*) PONDS IN HAWAII. *Pac. Sci.* 42(1-2):137. 1988. Abstract only. FR 33(4)

[Dep. Oceanogr., Univ. Hawaii, Honolulu]

003741 Yusoff, Fatimah. FISH PRODUCTION, PRIMARY PRODUCTIVITY AND NUTRIENT AVAILABILITY IN FERTILIZED FISH PONDS IN MALAYSIA. *Ph.D. Diss.* *State Univ.* 79p. 1987. From Diss. Abstr. Int. B Sci. Eng. 49(3): 584. 1988. FR 33(4)

[*Aristichthys nobilis*, *Ctenopharyngodon idella*, *Cyprinus carpio*, and *Puntius gononotus*]

#### RICULTURE

003742 Corbari, L.; A. Lazzari and F. Barbato. [THE INTRODUCTION AND REARING OF THE JAPANESE RED SEA BREAM (*CHRYSOPHRYS MAJOR*) IN ITALY.] *Riv. Ital. Idrobiol.* 23(1):11-12. 1988. In Italian and English. FR 33(4)

[Istituto Ugento S.p.A., Via Parini 2, 73100 Lecco, Italy]

003743 Degani, G. and D. Levanon. THE RELATIONSHIP BETWEEN AMMONIUM PRODUCTION AND OXYGEN CONCENTRATION IN WATER AND THE BIOMASS OF EEL (*ANGUILLA ANGUILLA* L.) IN THE DIET OF *ANGUILLA ANGUILLA* L. *Aquacult. Eng.* 7(4): 273-277. 1988. FR 33(4)

[Migal-Galilee Technol. Cent., Kiryat Shmona 10200, Israel]

003744 Duray, Marietta and Hiroshi Kohno. EFFECTS OF CONTINUOUS LIGHTING ON GROWTH AND SURVIVAL OF FIRST-FEEDING LARVAL RABBITFISH, *SIGANUS GUTTATUS*. *Aquaculture* 72(1/2):73-79. 1988. FR 33(4)

[Aquacult. Dep., SEAFDEC, P.O. Box 256, Iloilo City, Philippines]

003745 Foscari, Roberto. A REVIEW: INTENSIVE FARMING PROCEDURE FOR REARING OF SEA BREAM (*PAGRUS MAJOR*) IN JAPAN. *Aquaculture* 72(3/4):191-246. 1988. FR 33(4)

[Dep. Biol., Univ. Roma 2, "Tor Vergata", 00100 Rome, Italy]

003746 Francescon, A.; A. Freddi; A. Barbaro and R. Glavenni. [PARALLEL TESTS BETWEEN HATCHERY-BRED AND WILD-CAUGHT GILTHEAD SEABREAM (*SPARUS ANGUILLA*) UNDER DIFFERENT REARING CONDITIONS.] *Aquaculture* 72(3/4):273-285. 1988. In Italian with English summ. FR 33(4)

[Int. Biol. Mare, CNR, Riva 7 Martiri 1364/A, 30122 Venezia, Italy]

88-003747 Fujimaki, Yukio; Yasushi Tomizawa; Kishio Hatai and Saburo Hatai. [HISTOPATHOLOGICAL EXAMINATION OF RED SEA BREAM WITH CLOUDINESS ON THE BODY SURFACE.] *Fish Pathol.* 23(2):111-115. 1988. English summ. FR 33(4)

[Dep. Fish Dis., Nippon Vet. & Zootech. Coll., 1-7-1 Kyonan Cho, Mujo-cho, Japan] *Pagrus major* in Japan.

88-003748 Kaspar, Heinrich F.; Grahame H. Hall and A. Jan Holland. [EFFECTS OF CAGE SALMON FARMING ON SEDIMENT NITRIFICATION AND DISSIMILATED NITROGEN REDUCTIONS.] *Aquaculture* 70(4):333-344. 1988. FR 33(4)

[Cawthron Inst., P.O. Box 175, Nelson, New Zealand] *Oncorhynchus mykiss* in New Zealand.

88-003749 McNeil, William J. MARICULTURE: AN AID OR HINDRANCE TO WILDLIFE? *Trans. N. Am. Wildl. Nat. Resour. Conf.* 53:569-576. 1988. FR 33(4)

[Oreg. State Univ., Newport]

88-003750 Perez Benavente, Gonzalo and Francois-Joel Gatesoupe. [DISTRIBUTION OF ROTIFERS INCREASES THE ESSENTIAL FATTY ACIDS IN TURBOT LARVAE, *SCOPHTHALMUS MAXIMUS*.] *Aquaculture* 72(1/2):109-114. 1988. FR 33(4)

[IFREMER/INRA, Cont. Brest, BP 70, 29263 Plouzane, France]

88-003751 Turk, Christopher T. MARINE FISH NUTRITION: PART 1. *Rev. Fish Biol. Fish.* 36(11):98, 100-105. 1988. FR 33(4)

#### FEEDS, FEEDING, AND NUTRITION

88-003752 Adams, Michael A.; Peter B. Johnsen and Zhou H. [EFFECTS OF ENHANCEMENT OF FEEDING FOR THE HERBIVOROUS FISH *TILAPIA NIGRIFRONS*.] *Aquaculture* 72(1/2):95-107. 1988. FR 33(4)

[Monell Chem. Senses Cent., Univ. Pa., 3500 Market St., Philadelphia, Pa.]

88-003753 Alaya, Veronica R. and Chhorn Lim. [EFFECTS OF ARTIFICIAL DIETS ON THE GROWTH OF *CHANOS CHANOS* (FORSSKAL), FRY REARED IN SEAWATER.] *Aquaculture* 72(1/2):109-114. 1988. FR 33(4)

[Aquacult. Dep., Southeast Asian Fish. Dev. Cent., P.O. Box 6, Manila, Philippines]

88-003754 Blanco B., Oscar and Tobias Roman G. [EFFECTS OF FEEDING OF MALE *TILAPIA HORNORUM* AND FEMALE *T. MOSSAMBICA* IN CAGE CULTURE IN PUNTARENAS, COSTA RICA.] *Rev. Biol. Trop.* 34(2):273-276. 1988. English summ. FR 33(4)

[Univ. Costa Rica, Cent. Regional Occidente, San Ramon, Costa Rica]

88-003755 de la Higuera, M.; M. Garcia-Gallego; A. Sanz; G. Cardena and F. J. Moyano. [EVALUATION OF LUPIN SEED MEAL AS AN ALTERNATIVE FEED IN FEEDING OF RAINBOW TROUT (*SALMO GAIRDNERI*).] *Aquaculture* 72(1/2):109-114. 1988. FR 33(4)

[Dep. Biol. Anim., Ecol. & Genet., Fac. Cienc., Univ. Granada 18071, Granada, Spain]

- 03756 Eid, Abd Elhamed Mohamed Salah. THE ASSESSMENT OF PROTEIN QUALITY OF DIETS OF *CYPRINUS CARPIO*. Ph.D. dissertation, Univ. Aston (Birmingham). From Diss. Abstr. Int. B Sci. Eng. 49(1):4. 1988. FR 33(4)
- 03757 Fagbanro, Oyedapo A. RESULTS OF PRELIMINARY STUDIES ON UTILIZATION OF COCOA-POD HUSKS IN FISH PRODUCTION IN SOUTH-WEST NIGERIA. *Wastes* 25(3):233-237. 1988. FR 33(4)  
Dep. Fish. & Wildl., Fed. Univ. Technol., P.M.B. 704, Akure, Nigeria] *Cyprinus carpio*
- 03758 Fermin, A. C. and R. D. Recometa. LARVAL REARING OF BIGHEAD CARP (*STICTHYS NOBILIS* RICHARDSON), USING DIFFERENT TYPES OF FEED AND COMBINATIONS. *Aquacult. Fish. Manage.* 19(3):283-290. 1988. FR 33(4)  
SEAFDEC Aquacult. Dep., Tigbauan 5021, Iloilo, Philippines]
- 03759 Hughes, Steven G. ASSESSMENT OF LUPIN FLOUR AS A DIET INGREDIENT FOR RAINBOW TROUT (*SALMO GAIRDNERI*). *Aquaculture* 71(4):379-385. 1988. FR 33(4)  
Monell Chem. Senses Cent., 3500 Market St., Philadelphia, PA 19104]
- 03760 Lam, Sum-Wah and K. L. Shephard. SOME EFFECTS OF NATURAL VITAMINS AND HIGH-PROTEIN SUPPLEMENT ON THE GROWTH OF CARP. *Aquaculture* 72(2):131-138. 1988. FR 33(4)  
Dep. Biol. Sci., Univ. Buckingham, Buckingham MK18 1E, England] *Cyprinus carpio*
- 03761 Martinez-Palacios, C. A. DIGESTIBILITY STUDIES IN JUVENILES OF THE MEXICAN CICHLID, *CICHLASOMA UROPHthalmus* (GUNTHER). *Aquacult. Fish. Manage.* 19(1):347-354. 1988. FR 33(4)  
CINESTAV-IPN, Merida, Yucatan, Mexico]
- 03762 Olvera N., Miguel A.; Carlos A. Martinez P.; Reyna Galvan C. and Cruz S. THE USE OF SEED OF THE LEGUMINOUS PLANT *SESBANIA GRANDIFLORA* AS A PARTIAL REPLACEMENT FOR FISH MEAL IN DIETS FOR TILAPIA (*Oreochromis mossambicus*). *Aquaculture* 71(1/2):51-60. 1988. FR 33(4)  
Cent. Invest. & Estudios Avanzados I.P.N., Unidad Merida, Apdo. Postal 73-Corona, Merida, Yucatan 97310, Mexico]
- 03763 Prinsloo, J. F. and H. J. Schoonbae. NOTES ON THE EARLY LARVAL REARING OF THE BUTTER CATFISH *Eutropius depressirostris* (SCHILBEIDAE) USING AN ARTIFICIAL FEED. *Water SA (Pretoria)* 14(3):163-165. 1988. FR 33(4)  
Limnol. Res. Unit, Univ. North, Private Bag X1106, Sovenga 0727, South Africa]
- 03764 Rehulka, J. and J. Jirasek. TESTING THE ANTIOXIDANT ACTIVITY OF BHT (BUTYLHYDROXYTOLUOL) AND BHA (BUTYLHYDROXYANISOLATE) IN THE DIETS FOR RAINBOW TROUT (*SALMO GAIRDNERI* R.). *Pr. Vodnany* No. 16. p. 1-7. In English with Czech summ. FR 33(4)  
Vyzkumny ustav rybarsky & hydrobiol. Vodnany, pracoviste Varena 51, Varena, Czechoslovakia]
- 03765 Senerlches, Mary Lynn M. and Yvonne N. Chlu. EFFECT OF FISHMEAL ON

88-003765 CONTINUED

[Chiu: Brackishwater Aquacult. Cent., Coll. Fish., Univ. Philippines  
5000, Philippines]

88-003766 Shiau, Shi-Yon; Hao-Ling Yu; Sophy Hwa; Shih-Yang CHEN.  
THE INFLUENCE OF CARBOXYMETHYLCELLULOSE ON GROWTH, FEED  
EMPTYING TIME AND BODY COMPOSITION OF TILAPIA. *Aquaculture*  
FR 33(4)

[Dep. Mar. Food Sci., Natl. Taiwan Coll. Mar. Sci. & Technol., Keelung  
*Oreochromis niloticus* and *O. aureus*.]

88-003767 Tabachek, Jo-Anne L. THE EFFECT OF FEED PARTICLE SIZE  
AND FEED EFFICIENCY OF ARCTIC CHARR [*SALVELINUS ALPINUS*]  
71(4):319-330. 1988. FR 33(4)

[Dep. Fish. & Oceans, Cent. & Arctic Region, Freshwater Inst., 50  
Winnipeg, MB, Canada R3T 2N6]

88-003768 Viola, Shalom; Yeruham Arieli and Gil Zohar. UNIFORMITY  
(TAPIOCA AND LUPIN) AS INGREDIENTS FOR CARP AND TILAPIA  
CULTURE. *Bamtdgeh* 40(1):29-34. 1988. FR 33(4)

[Kfar Masaryk, D.N. Ashrat 25208, Israel] *Cyprinus carpio*, *Oreochromis*  
*O. aureus*.]

88-003769 Yamada, Shoji; Yoshito Tanaka and Muneo Sameshima.  
NITROGEN LOSS FROM AMINO ACID DIETS FOR CARP. *Nippon Suisan Gakkaishi*  
1988. In English. FR 33(4)

[Lab. Mar. Biochem., Fac. Fish., Kagoshima Univ., Shimoarata,  
*Cyprinus carpio*.]

88-003770 Zagarese, Horacio E. REARING FRY OF SOUTH AMERICAN  
SAPO) ON NATURAL ZOOPLANKTON POPULATIONS. *Aquaculture* 70  
33(4)

[Inst. Nac. Invest. Desarrollo Pesquero, Dep. Aguas Continentales,  
Grande (7600), Mar del Plata, Argentina]

## TRANSPORTING FISH

88-003771 De, D. K.; D. Nath and P. R. Sen. PRELIMINARY TRIALS ON  
FRY OF *HILSA ILISHA* (HAMILTON). *Indian J. Fish.* 33(4):481-484. 1988.  
1

[Cent. Inland Fish. Res. Inst., Barrackpore - 743101, W.B., India]

88-003772 Froese, R. RELATIONSHIP BETWEEN BODY WEIGHT AND GROWTH  
IN FISH TRANSPORT USING THE PLASTIC BAG METHOD. *Aquaculture*  
19(3):275-281. 1988. FR 33(4)

[Inst. Meereskunde, Düsternbrooker Weg 20, D-2300 Kiel 1, West Germany]

## AQUARIUMS

88-003773 Edmonds, Les. OZONE. *Trop. Fish Hobbyist* 36(10):76-77

88-003774 Kapralski, Adam. MY EXPERIENCES WITH *LAMPROLOGUS LELEUPI*. *Hobbyist* 36(12):23-26, 29-30. 1988. FR 33(4)

88-003775 Palicka, Jiri. A TRANSPARENT BEAUTY: BREEDING *CHANDA RAJA*. *Fish Hobbyist* 36(12):42-44, 47. 1988. FR 33(4)

88-003776 Pinkerton, Alan. BREEDING *CORYDORAS HARALDSCHULTZII*. *Hobbyist* 36(12):32-35. 1988. FR 33(4)

88-003777 Ralph, Deborah and Rodney Ralph. BREEDING AUSTRALIA'S DESERT FISH. *Trop. Fish Hobbyist* 36(12):38-40. 1988. FR 33(4)  
*Chlamydogobius eremius*.

88-003778 Richter, Hans-Joachim. THE RED FORM OF *APISTOGRAMMA AGASIZI*. *Fish Hobbyist* 37(1):10-12, 14-15, 17. 1988. FR 33(4)

88-003779 Richter, Hans-Joachim. BREEDING *POECILIA NIGROFASCIATA*. *Hobbyist* 36(10):10-12, 14-15. 1988. FR 33(4)

88-003780 Stratton, Richard F. THE QUEEN OF THE SEAS. *Trop. Fish Hobbyist* 83. 1988. FR 33(4)  
*Ballistes vetula*.

88-003781 Stratton, Richard F. THE KING ANGEL, *HOLACANTHUS PASSERIS*. *Hobbyist* 36(12):94-97. 1988. FR 33(4)

88-003782 Turk, Christopher T. MARINE FISH NUTRITION, PART 2. *Trop. Fish Hobbyist* 36(12):99, 101-102, 104, 106, 108. 1988. FR 33(4)

#### MISCELLANEOUS CULTURE TECHNIQUES AND EQUIPMENT

88-003783 Losordo, Thomas M.; Raul H. Piedrahita and James M. Ebeling. AN AUTOMATIC WATER QUALITY DATA ACQUISITION SYSTEM FOR USE IN AQUACULTURE. *Aquacult. Eng.* 7(4):265-278. 1988. FR 33(4)  
[Dep. Zool., N.C. State Univ., Raleigh 27605]

88-003784 Nirmalakhandan, N.; Y. H. Lee and R. E. Speece. OPTIMIZATION OF AMMONIUM NITROGEN ABSORPTION AND NITROGEN DESORPTION IN PACKED TOWERS. *Aquacult. Eng.* 7(4):234. 1988. FR 33(4)  
[Speece: Drexel Univ., Philadelphia, PA 19104]

88-003785 Varvarigos, Panagiotis. MICROCOMPUTER BASED FISH FARM PLANNING: THE DEVELOPMENT OF A MICROCOMPUTERISED DATA RECORDING AND PRODUCTION DECISION SUPPORT SYSTEM FOR INDIVIDUAL FISH FARMERS. *Ph.D. dissertation* (United Kingdom) 204p. 1987. From Disc. Abstr. Int. J. Fish. Aquacult. 1988, 10(1):1-2.

88-003786 Welt, Marc. OXYGEN RECHARGE AS A FUNCTION TEMPERATURE, AND HEIGHT OF FALL IN SERIAL REUSE FISH PONDS. *Idaho* 124p. 1988. FR 33(4)

88-003787 Yamasaki, S.; H. Hirata; S. H. Cheah; K. J. Ang. FUNCTIONS OF A STREAM UNIT ON THE GROWTH OF PHYTOPLANKTON AND FISH FRY IN A NEW CULTURE TANK SYSTEM. *Aquacult. Eng.* 7(3):33(4)

[Fac. Fish., Kagoshima Univ., Kagoshima 890, Japan] *Puntius gonionotus*

#### GENERAL LIMNOLOGY AND OCEANOGRAPHY

88-003788 Iryin, Kenneth. ZOOPLANKTON ECOLOGY AND THE EFFECTS OF NUTRIENT ADDITIONS, HABITAT STRUCTURE AND FISH PREDATION ON A FRESHWATER ECOSYSTEM. *Ph.D. dissertation, Univ. E. Anglia (England)* 336p. 1988. *Int. B. Sci. Eng.* 49(2):306. 1988. FR 33(4)

88-003789 Maeda, Hiroto and Akira Kawal. MICROFLORA AND BACTERIAL PRODUCTION IN THE BOTTOM SEDIMENT OF LAKE BIWA. *Nippon Suisan Gakkaishi* 54(8):1375-1383. 1988. In English with Japanese summ. FR 33(4)  
[Lake Biwa Res. Inst., Uchidehama, Otsu, Shiga 520, Japan]

#### PHYSICAL LIMNOLOGY AND OCEANOGRAPHY

88-003790 Swanson, R. Lawrence and Charles A. Parker. PHYSICAL FACTORS CONTRIBUTING TO RECURRING HYPOXIA IN THE NEW YORK STATE CATTARAUGUS RIVER. *Am. Fish. Soc.* 117(1):37-47. 1988. FR 33(4)  
[Waste Manage. Inst., SUNY, Stony Brook, NY 11794]

88-003791 Zou Shanghai. [STUDY OF MODERN VICISSITUDES OF THE HANGZHOU BAY GROUP BY USING REMOTE SENSING TECHNIQUES.] *Oceanol. Limnol.* 1987. In Chinese with English summ. FR 33(4)  
[Cent. China Teacher's Univ., Wuchang, China]

#### CHEMICAL LIMNOLOGY AND OCEANOGRAPHY

88-003792 Oliver, J. Douglas. EFFECTS OF BIOGENIC AND SIMULATED NUTRIENT ENRICHMENT ON FISH AND OTHER COMPONENTS OF OKEFENOKE LAKE. *Ph.D. dissertation, Univ. Ga.* 179p. 1987. From Diss. Abstr. Int. B. 1988. FR 33(4)  
*Leptolucania ommata* and *Cambusia affinis*.

88-003793 Swanson, George A.; Thomas C. Winter; Vyto A. Adamec; LaBaugh. CHEMICAL CHARACTERISTICS OF PRAIRIE LAKES IN SOUTH DAKOTA--THEIR POTENTIAL FOR INFLUENCING USE BY FISH AND WILDLIFE. *Wildl. Serv. Tech. Rep.* No. 18. 44p. 1988. Available from U.S. Fish & Wildl. Serv., North. Prairie Wildl. Res. Cent., Box 100, Fargo, ND 58105. FR 33(4)  
[U.S. Fish & Wildl. Serv., North. Prairie Wildl. Res. Cent., Box 100, Fargo, ND 58105]

003794 Yu Yuansheng. [CHARACTERISTICS OF DISTRIBUTION AND MIGRATION OF PHOSPHORUS IN DEPOSITS OF DIANCHI LAKE.] *Oceanol. Limnol. Sin.* 19(2):149-156. 1986. Chinese with English summ. FR 33(4)  
[Nanjing Inst. Geogr., Acad. Sinica, Nanjing, China]

## ETHOS

003795 Markmann, Carla. BENTHIC MONITORING IN THE SACRAMENTO-SAN JOAQUIN ESTUARY: RESULTS FROM 1975 THROUGH 1981. *Interagency Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep.* 12. 51p. 1986. FR 33(4)

## MORPHOLOGY

003796 Acero P., Arturo and Jaime Garzon F. [TAXONOMY AND NOMENCLATURE OF *CHAETODON SEDENTARIUS* POEY AND *CHAETODON ACULEATUS* (POEY) (PISCES: CHAETODONTIDAE) AND NOTES ON THEIR BIOLOGY IN SANTA MARTA, COLOMBIA.] *Biol. Trop.* 34(2):267-271. 1986. In Spanish with English summ. FR 33(4)  
[Univ. Nac. Colombia, INVEMAR, Apdo. 1016, Santa Marta, Colombia] *Prognathodes*

003797 Al-Hassan, L. A. J. and A. K. Naama. SOME VERTEBRAL ABNORMALITIES COLLECTED FROM THE EUPHRATES IN IRAQ. *Indian J. Fish.* 33(2):237-241. 1986. FR 33(4)  
[Mar. Sci. Cont., Univ. Basrah, Basrah, Iraq] *Tor grypus*, *Mesopotamichthys shawi*, *Liza abu*.

003798 Al-Kadhomly, N. K. and G. M. Hughos. HISTOLOGICAL STUDY OF DIFFERENT REGIONS OF THE SKIN AND GILLS IN THE MUDSKIPPER, *BOLEOPHTHALMUS BOLEOPHTHALMUS* (PISCES: GASTEROSTEIDAE) WITH RESPECT TO THEIR RESPIRATORY FUNCTION. *J. Mar. Biol. Assoc. U.K.* 68(3):481-491. 1988. FR 33(4)  
[Res. Unit Comp. Anim. Respir., Univ. Bristol, Woodland Rd., Bristol BS8 1TL, England]

003799 Anker, G. Ch. THE MORPHOLOGY OF JOINTS AND LIGAMENTS IN GENERALIZED *HAPLOCHROMIS* SPECIES: *H. ELEGANS* TREWAVAS 1933 (TELEOSTEI: CHLIDAE) II. THE JAW APPARATUS. *Neth. J. Zool.* 37(3-4):394-427. 1987. FR 33(4)  
[Res. Group Ecol. Morphol., Zool. Lab., Rijksuniv. Leiden, Postbus 9516, 2300 RA Leiden, Netherlands]

003800 Bakker, Th. C. M. and P. Sevenster. PLATE MORPHS OF *GASTEROSTEUS ACULEATUS* LINNAEUS (PISCES: GASTEROSTEIDAE): COMMENTS ON TERMINOLOGY. *Environ. Biol. Fish.* 1988(3):659-663. 1988. FR 33(4)  
[Ethol. Dep., Zool. Lab., Univ. Leiden, P.O. Box 9516, 2300 RA Leiden, Netherlands]

003801 Beacham, Terry D.; Ruth E. Withler; Clyde B. Murray and L. W. E. H. VARIATION IN BODY SIZE, MORPHOLOGY, EGG SIZE, AND BIOCHEMICAL GENETICS OF SALMON IN BRITISH COLUMBIA. *Trans. Am. Fish. Soc.* 117(2):109-126. 1988. FR 33(4)  
[Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nanaimo, BC, Canada] *Oncorhynchus gorbuscha*.



88-003802 Beall, Edward and Patrick Davaine. [SCALE ANALYSIS OF *TRUTTA* L.): SCALE RING FORMATION AND IDENTIFICATION OF MIGRANT AND NON-MIGRANT INDIVIDUALS FROM ONE POPULATION ACROSS THE KERGUELEN ISLANDS (TAAF).] *Aquat. Living Resour.* 1(1):3-16. English summ. FR 33(4)

[Lab. Ecol. Poissons, INRA, Stn. Hydrobiol., Saint-Pee-sur-Nivelle, France]

88-003803 Bemis, William E. CONVERGENT EVOLUTION OF JAW-CLOSURE MECHANISMS IN LEPIDOSIRENID LUNGFISHES AND TETRAPODS. *Can. J. Zool.* 65(1):1-10. English with French summ. FR 33(4)

[Dep. Zool., Univ. Mass., Amherst 01003-0027] *Lepidosiren* spp. and *Aplocheilichthys* spp.

88-003804 Bennett, M. B. MORPHOMETRIC ANALYSIS OF THE GILL RING OF THE EEL, *ANGUILLA ANGUILLA*. *J. Zool. (Lond.)* 215(3):549-560. 1988. FR 33(4)

[Dep. Pure & Appl. Biol., Leeds Univ., Leeds, W. Yorks. LS2 9JT, U.K.]

88-003805 Blouw, D. M. and D. W. Hagen. THE ADAPTIVE SIGNIFICANCE OF SPINE VARIATION IN THE FOURSPINE STICKLEBACK, *APELTICHTHYS*. TEMPORAL VARIATION. *Can. J. Zool.* 65(11):2651-2660. 1987. In English with French summ. FR 33(4)

[Dep. Biol., St. Francis Xavier Univ., Antigonish, NS, Canada B2G 2W5]

88-003806 Bordat, C. [THE HISTOLOGY AND ULTRASTRUCTURE OF THE BONE CALCIFICATIONS IN THE LESSER SPOTTED DOGFISH *SCYLIORHINUS*]. *Zool.* 66(6):1432-1445. 1988. In French with English summ. FR 33(4)

[Hospital Enfants Malades, 149 rue Sevres, 75743 Paris Cedex 15, France]

88-003807 Bruce, B. D. LARVAL DEVELOPMENT OF BLUE GREY SLOAN *NOVAEZELANDIAE* (HECTOR), IN TASMANIAN WATERS. *U.S. Natl. Bull.* 86(1):119-128. 1988. FR 33(4)

[Dep. Fish., GPO Box 1625, Adelaide, S.A. 5001, Australia]

88-003808 Burgin, Tom. ASYMMETRY AND FUNCTIONAL DESIGN OF THE JAW APPARATUS IN SOLEOID FLATFISHES (PISCES; PLEURONECTIFORMES). *Zool.* 37(3-4):322-364. 1987. FR 33(4)

[Palaontol. Inst. & Mus. Univ. Zurich, Kunstlergasse 16, CH-8000 Zurich, Switzerland] *Achirus achirus*, *Cynoglossus tanzibarensis*, and *Dicologoglossa cuneata*

88-003809 Chapleau, Francois. COMPARATIVE OSTEOLOGY AND ANATOMICAL RELATIONSHIPS OF THE TONGUE SOLES (PISCES; SOLEIDAE; PLEURONECTIFORMES; CYNOGLOSSIDAE). *Can. J. Zool.* 66(5):1214-1232. 1988. In English with French summ. FR 33(4)

[Ichthyol. Sect., Natl. Mus. Nat. Sci., P.O. Box 3443, Stn. D, Ottawa, Ontario, Canada K1P 6P4]

88-003810 Collin, Shaun P. and H. Barry Collin. THE MORPHOLOGY AND FUNCTION OF THE LENS OF THE SANDLANCE, *LIMNICHTHYES FASCIATUS* (CREMIIDAE). *Zool.* 47(4):209-218. 1988. FR 33(4)

[Collin, H. B.: School Optometry, Univ. New South Wales, P.O. Box 2027, Kensington, N.S.W. 1585, Australia]

- 88-003811 Corti, M.; R. S. Thorpe; L. Sola; V. Sbordoni and  
MULTIVARIATE MORPHOMETRICS IN AQUACULTURE: A CASE STUDY OF  
THE COMMON CARP (*CYPRINUS CARPIO*) FROM ITALY. *Can. J. Fish. Aquat. Sci.* 45(9):1548-1554. 1988. In English with French summ. FR 33(4)  
[Dip. Biol. Anim. dell'Uomo, Via A. Borelli, 50, Univ. Roma "La Sapienza"]
- 88-003812 Crane, S. A.; J. M. Fonaughty and R. W. Gauldie. THE  
RELATIONSHIP BETWEEN EYE DIAMETER AND FORK LENGTH IN THE SPINY OREO DORIS  
SP. N.Z. *J. Mar. Freshwater Res.* 21(4):641-642. 1987. FR 33(4)  
[Gauldie: Fish. Res. Cent., Minist. Agric. & Fish., P.O. Box 297  
Zealand]
- 88-003813 Crespo, S.; R. Sala and M. J. Marlasca. [FISH BRANCHIAL  
FUNCTION AND PATHOLOGICAL ALTERATIONS.] *Med. Vet.* 5(4):199-202. 1988. In Spanish. FR 33(4)  
[Lab. Biol., Univ. Autonoma, Barcelona, Spain] *Scophthalmus maximus*.
- 88-003814 Currens, Kenneth P.; Carl B. Schreck and Hiram W. Li. RESEARCH  
ON THE USE OF OTOLITH NUCLEAR DIMENSIONS TO IDENTIFY JUVENILE ATLANTIC  
NONANADROMOUS RAINBOW TROUT, *SALMO GAIRDNERI*. *U.S. Natl. Fish. Bull.* 86(1):160-163. 1988. FR 33(4)  
[Coop. Fish. Res. Unit, Oreg. State Univ., Corvallis 97331]
- 88-003815 Da Graca Salomao, Maria and Paulo Sawaya. MORPHOLOGY AND  
FUNCTION OF THE GONOPODIUM IN POECILID FISH. *Zool. Anz.* 220(3/4):135-143. 1988. In English with French summ. FR 33(4)  
[Univ. Sao Paulo, Rua Terre Roxa 311, 06300-Carapicuilba Sao Paulo, Brazil] *Gambusia affinis holbrooki* and *Phallogeros caudimaculatus*.
- 88-003816 Daniel, Thomas L. FORWARD FLAPPING FLIGHT FROM FLEXIBLE  
WINGS. *Zool.* 66(3):630-638. 1988. In English with French summ. FR 33(4)  
[Dep. Zool., NJ-15, Univ. Wash., Seattle 98195] *Raja eglaterla*.
- 88-003817 de Pontual, Helene and Patrick Prouzet. NUMERICAL ANALYSIS OF  
MORPHOLOGY TO DISCRIMINATE BETWEEN ATLANTIC SALMON STOCKS. *ICES J. Mar. Sci.* 1(1):17-27. 1988. In English with French summ. FR 33(4)  
[IFREMER, Cont. Brest, DRV/AP, B.P. 337, 29273 Brest cedex, France]
- 88-003818 del Barco, Daniel and Angel Panattieri. [A CASE OF ALBINISM IN  
*PLECOPTERUS KNERI*, BLEEKER 1862, PISCES, DORADIDAE.] *Com. Mus. Prov. Buenos Aires "Ameghino"* No. 9. p. 1-20. 1980. In Spanish with English summ. FR 33(4)  
[MAG, Ave. Aristobulo del Valle 8700, 3000 Santa Fe, Argentina]
- 88-003819 Diaz, J. P. and R. Connes. [PARTICULARITIES OF THE  
ULTRASTRUCTURAL ORGANIZATION OF THE SEA-BASS *DICENTRARCHUS LABRUS*  
(PISCES, TELEOSTEI).] *Ann. Sci. Nat. Zool. Biol. Anim.* 9(2):123-141. 1988. In English with French summ. FR 33(4)  
[Lab. Biol. Anim., Univ. Sci. & Tech. Languedoc, F 34060 Montpellier Cedex, France]

88-003820 Dickman, Michael C.; Manfred Schliwa and George W. B. DEATH AND DISAPPEARANCE PRODUCES COLOR METAMORPHIC POLYCHROMATIC MIDAS CICHLID (*CICHLASOMA CITRINELLUM*). 253(1):9-14. 1988. FR 33(4)

[Dep. Biol. Sci., Univ. Calif., Santa Barbara 93106]

88-003821 Eastman, Joseph T. OCULAR MORPHOLOGY IN ANTARCTIC FISHES. *J. Morphol.* 196(3):283-306. 1988. FR 33(4)

[Dep. Zool. & Biomed. Sci. & Coll. Osteopathic Med., Ohio Univ., A

88-003822 El-Fiky, N. and W. Wieser. LIFE STYLES AND PATTERNS OF GILLS AND MUSCLES IN LARVAL CYPRINIDS (CYPRINIDAE; TELEOSTEI). 33(1):135-145. 1988. FR 33(4)

[Wieser: Inst. Zool., Univ. Innsbruck, Technikerstr. 25, A-6020 Innsbruck, Austria] *Abramis brama*, *Chondrostoma nasus*, *Alburnus alburnus*, *Rutilus rutilus*, and *L. leuciscus*.

88-003823 Erben, Radovan; Srecko Lelner; Hrvoje Gomerčić and Zvezdana Lelner. BLENNIDAE FAMILY FROM THE POREC LITTORAL AREA. *J. Ichthyol.* 24(1):1-10. 1988. In Serbo-Croatian with English summ. FR 33(4)

[Fac. Nat. Sci., Zool. Dep., Rooseveltov trg 6, 41000 Zagreb, Yugoslavia] *B. sangulinotentus*, *B. tentacularis*, and *B. gattorugine* in Yugoslavia.

88-003824 Frazzatta, T. H. THE MECHANICS OF CUTTING AND GRINDING WITH TEETH (CHONDRICTHYES, ELASMOBRANCHII). *Zoomorphology* 1988. FR 33(4)

[Dep. Ecol., Ethol., & Evol., Univ. Ill., 515 Morrill Hall, 505 S. Morgan St., Urbana, IL 61801]

88-003825 Gambaryan, S. P. KIDNEY MORPHOLOGY AND FUNCTIONAL MICRODISSECTIONAL AND ULTRASTRUCTURAL STUDY. *J. Fish Biol.* 1988. FR 33(4)

[I.M. Sechenov. Inst. Evol. Physiol. & Biochem., Acad. Sci. USSR, Leningrad 194223, USSR] *Acipenser stellatus*, *A. gueldenstaedti*, *A. persicus*, *A. ruthenus*, and *Huso huso*.

88-003826 Gjosæter, Harald. PRIMARY GROWTH INCREMENTS IN TROPICAL MYCTOPHID SPECIES. *Biol. Oceanogr.* 4(4):359-382. 1987

[Inst. Mar. Res., Nordes, Norway]

88-003827 Gomez-Segade, Pablo and Ramon Anadon. SPECIFIC DIENCEPHALON OF ADVANCED TELEOSTS. *J. Morphol.* 197(1):71-100

[Dep. Fundamental Biol., Fac. Biol., Univ. Santiago, Compostela, Spain] *Mediterraneus*, *Syngnathus acus*, *Gasterosteus aculeatus*, *Pleuronectes vulgaris*.

88-003828 Green, David M. and D. Louise Barber. THE VENTRAL ANTERIOR CLINGFISH *GOBIESOX MAEANDRICUS*: INTEGUMENTAL STRUCTURE AND MECHANISMS. *Can. J. Zool.* 66(7):1610-1619. 1988. In English with French summary. [Redpath Mus., McGill Univ., Montreal, PQ, Canada H3A 2K6]

- 03829 Hilliard, R. W. and I. C. Potter. MORPHOLOGY OF THE EXOCRINE PANCREAS OF THE SOUTHERN HEMISPHERE LAMPREY, *GEOTRIA AUSTRALIS*, AND CHANGES DURING METAMORPHOSIS. *J. Morphol.* 197(1):33-52. 1988. FR 33(4)  
[School Biol. & Environ. Sci., Murdoch Univ., Perth, W.A. 6150, Australia]
- 03830 Hine, P. M. and J. M. Wain. ULTRASTRUCTURAL AND CYTOCHEMICAL OBSERVATIONS ON THE GRANULOCYTES OF THE STURGEON, *ACIPERES VIRESTRUM* (CHONDROSTEI). *J. Fish Biol.* 33(2):235-245. 1988. FR 33(4)  
[Fish. Res. Cent., Minist. Agric. & Fish., P.O. Box 297, Wellington, New Zealand]
- 03831 Hofer, R. MORPHOLOGICAL ADAPTATIONS OF THE DIGESTIVE TRACT OF TROPICAL CYPRINIDS AND CICHLIDS TO DIET. *J. Fish. Biol.* 33(3):399-408. 1988. FR 33(3)  
[Inst. Zool., Univ. Innsbruck, Technikerstr. 25, A-6020 Innsbruck, Austria]  
[Species: *Melipotrinus*, *Rasbora daniconius*, *Amblypharyngodon melettinus*, *Esomus daniconius*, *Astatoreochromis mossambicus*, and *Puntius* spp.]
- 03832 Hoogerhoud, R. J. C. THE ADVERSE EFFECTS OF SHELL INGESTION BY CARNIVOROUS CICHLIDS, A CONSTRUCTIONAL MORPHOLOGICAL APPROACH. *J. Fish Biol.* 37(3-4):277-300. 1987. FR 33(4)  
[Res. Group Ecol. Morphol., Zool. Lab., Rijksuniv. Leiden, Postbus 9516, 2300 RA Leiden, Netherlands] *Astatoreochromis affluvidi*.
- 03833 Hossain, Amjad and Hiran M. Dutta. EMBRYOLOGY OF INTESTINAL CAECUM OF BLUEGILL (*LEPOMIS MACROCHIRUS*). *Can. J. Zool.* 66(4):998-1003. 1988. In English. French summ. FR 33(4)  
[Dep. Biol. Sci., Kent State Univ., Kent, OH 44242]
- 03834 Hussain, S. M. CRANIAL OSTEOLOGY OF *BREGMACEROS MCCLELLANDI* (POMPOIDAE), WITH A NOTE ON ITS RELATIONSHIP WITH OTHER GADIFORMES. *Ind. J. Zool.* 33(3):251-261. 1986. FR 33(4)  
[Inst. Mar. Biol., Univ. Karachi, Karachi 32, Pakistan]
- 03835 Imagawa, Tomohiro. A MORPHOLOGICAL STUDY ON BLOOD CELLS AND LYMPHOID TISSUES OF CARP (*CYPRINUS CARPIO*). *Jpn. J. Vet. Res.* 36(2):151-157. 1988. FR 33(4)  
[Abstract only. FR 33(4)]  
[Dep. Vet. Anat., Fac. Vet. Med., Hokkaido Univ., Sapporo 060, Japan]
- 03836 Jahn, Andrew E. and Richard L. Haedrich. NOTES ON THE PELAGIC SQUID *ISISTHIUS BRASILIENSIS*. *Biol. Oceanogr.* 5(4):297-309. 1987. FR 33(4)  
[Sect. Fish., Los Angeles Cty. Mus. Nat. Hist., 900 Exposition Blvd., Los Angeles 90007]
- 03837 Kawamura, Gunzo and Shinichi Ohashi. THE HABIT OF CUTLASSFISH (*XIPHOIDES*) DERIVED FROM THE RETINA. *Nippon Suisan Gakkaishi* 54(5):889. 1988. In English. FR 33(4)  
[Fac. Fish., Kagoshima Univ., 4-50-20 Shimoarata, Kagoshima 890, Japan] *Trachurus*.

88-003838 CONTINUED 1988. FR 33(4)

[Fish. Res. Lab., Mie Univ., P.O. Box 11, Wagu, Shima, Mie 517-07,

88-003839 Leis, Jeffrey M. LARVAL DEVELOPMENT IN FOUR SPECIES OF CORAL TROUT *PLECTROPOMUS* (PISCES: SERRANIDAE: EPINEPHELINAE). ANALYSIS OF THE RELATIONSHIPS OF THE GENUS. *Bull. Mar. Sci.* FR 33(4)

[Div. Vertebr. Zool., Australian Mus., P.O. Box A 285, Sydney, N.S.W.] *Plectropomus leopardus*, *P. maculatus*, *P. areolatus*, and *P. laevis*.

88-003840 Lenhardt, Mirjana. [COMPARATIVE ANALYSIS OF THE CHARACTERISTICS OF THE CHUB (*LEUCISCUS CEPHALUS* L.) FROM THE VRUJCI STREAM NEAR LJIG (THE SAVA RIVER SYSTEM) IN THE ZAPADNA MORAVA RIVER (PRELIMINARY REPORT).] *Ichthyos* No. 1. Serbo-Croatian with English summ. FR 33(4)

[Jasmina KRPO, Inst. Biol. Instrazivanja, "Sinisa Stankovic", Beograd]

88-003841 Lesel, Rene; Ricardo Rojas-Beltran; Jean-Marie Blanc; Michel Lesel. OSIDASIC PROFILES IN THE DIGESTIVE TRACT OF SOME HERBIVOROUS CONTINENTAL FISHES OF FRENCH GUIANA. *Aquatic Botany* 1(1):53-57. 1988. In English with French summ. FR 33(4)

[INRA, Stn. Hydrobiol., Lab. Microorganismes, B.P. 3, Saint-Pierre de l'Ascalin, France] *Arius parkeri*, *A. couma*, *Myleus ternetzi*, *Leporinus thoracatum*, and *Hypostomus watwata*.

88-003842 Li Sizhong and Wang Hulmin. [OSTEOLOGICAL STUDIES ON FRESHWATER FLATFISHES II. THE VERTEBRAE, RIBS, EPIPLEURALS AND MYOSEPTA]. *Zool. Stn.* 33(3):267-276. 1987. In Chinese with English summ. FR 33(4)

[Inst. Zool. Acad. Sinica, Beijing, China]

88-003843 Lombardi, Julian and John P. Wourms. EMBRYONIC AND TROPHOTAENIAL DEVELOPMENT IN GOODEID FISHES (TELEOSTEI: ALEKINAE). *Morphol.* 197(2):193-208. 1988. FR 33(4)

[Dep. Biol., Univ. N.C., Greensboro 27412-5001] *Ameca splendens* and *Ameca*

88-003844 Lonning, Sunnlva; Elin Kjorsvik and Inger-Britt Rognes. A COMPARATIVE STUDY OF PELAGIC AND DEMERSAL EGGS FROM COMMON FISHES IN NORTHERN NORWAY. *Sarsia* 73(1):49-60. 1988. FR 33(4)

[Kjorsvik: Inst. Biol. Geol., Univ. Tromso, P.O. Box 3085 Gulvåg, Norway] *Gadus morhua*, *Melanogrammus aeglefinus*, *Hippoglossus hippoglossus*, *Hippoglossoides platessoides*, *Pleuronectes platessa*, *Platichthys flesus*, *Clupea harengus*, *Cyclopterus lumpus*, *Myoxocephalus scorpius*, and *Ammodytes*

88-003845 MacNeill, David B. and Stephen B. Brandt. ONTOGENETIC CHANGES IN THE GILL RAKER MORPHOLOGY AND PREY CAPTURE EFFICIENCY OF THE HERRING IN THE GREAT LAKES. *Great Lakes Res. Conf.* 30:A-41. 1987. Abstract only. FR 33(4)

[SUNY-ESF, Illick Hall, Syracuse, NY 13210] *Alosa pseudoharengus*.

- 03846 Matthews, William J. and Frances P. Gelwick. VARIATION AND SYSTEMATICS OF *ETHEOSTOMA RADIOSUM*, THE ORANGEBELLY DARTER (PISCES: PERCIDAE). *Cons. Biol.* 3(3):543-554. 1988. FR 33(4)  
[Univ. Okla. Biol. Stn. & Dep. Zool., Kingston 73439]
- 03847 McAllister, Chris T. and James T. McAllister, Jr. AN UNUSUAL BLUE CATFISH, *ALURUS FURCATUS* (SILURIFORMES: ICTALURIDAE), FROM ARKANSAS. *Tex. J. Sci.* 30(3):361-363. 1988. FR 33(4)  
[Gen.-Metabol. Lab. (151-G), Vet. Admin. Med. Cent., 4500 S. Lancaster Rd., D-15216]
- 03848 McNulty, J. A.; M. A. Neighbors and M. H. Horn. ULTRASTRUCTURE AND CHEMISTRY OF THE PINEAL ORGAN IN DEEP-SEA LANTERNFISHES (MYCTOPHIDAE). *Experientia (Basel)* 44(9):740-742. 1988. FR 33(4)  
[Dep. Anat., Loyola Univ. Stritch School Med., Maywood, IL 60153] *Triphacanthus canus*, *Stenobranchius leucopsaurus*, *Lampanyctus oliveri*, *Tarletonbeania crenata*, *Diabolophorus californiensis*, and *Carassius auratus*.
- 03849 Mounier, Francois. [NEW DATA ON THE SPATIAL ORGANIZATION OF COLLAGENOUS FIBRILS IN THE BASAL PLATE OF TELEOSTS SCALES.] *Ann. Sci. Nat. Zool. Anim.* 9(2):113-121. 1988. In French with English summ. FR 33(4)  
[I.N.R.S. O41137 Lab. Anat. Comp., Univ. Paris 7 2, place Jussieu, F 75251 Paris 05, France]
- 03850 Mayer, Axel. MORPHOLOGIC MEASUREMENTS FROM SPECIMENS AND THE EFFECTS: TEST OF A METHOD FOR THE STUDY OF ALLOMETRY AND PHENOTYPIC VARIATION IN FISHES. *Neth. J. Zool.* 37(3-4):315-321. 1987. FR 33(4)  
[Mus. Vertebr. Zool. & Dep. Zool., Univ. Calif., Berkeley 94720]
- 03851 Mollah, M. F. A. CYCLIC CHANGES IN THE OVARY OF FRESHWATER CARP, *CYPRINUS MACROCEPHALUS* (GUNTHER). *Indian J. Fish.* 33(1):54-65. 1986. FR 33(4)  
[School Biol. Sci., Univ. Sci., Ponang, Malaysia]
- 03852 Myagkov, N. A. EXTERNAL STRUCTURE OF THE CEPHALIC BRAIN OF THE POLAR MAGIC SHARK, *SQUALIOLUS LATICAUDUS*. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 27(1):125-127. 1987. FR 33(4)  
[Polar Sci.-Res. Inst. Fish. & Oceanogr. -- PINRO, Murmansk, USSR]
- 03853 Nishikawa, Yasuo. LARVAL MORPHOLOGY OF STRIPED BONITO, *SARDINELLA MELANOTALIS*, WITH COMMENTS ON DISTINCTION FROM KAWAKAWA, *EUTHYRACHTUS JAPONICUS*. *Bull. Far Seas Fish. Res. Lab.* No. 25. p. 163-175. 1988. In English with Japanese summ. FR 33(4)  
[Far Seas Fish. Res. Lab., 7-1, 5-chome Orido, Shimizu 424, Japan]
- 03854 Oguri, Mikio. HISTOLOGY OF THE INTERRENAL GLANDS OF SOUTH AMERICAN FRESHWATER STINGRAYS. *Nippon Suisan Gakkaishi* 54(8):1339-1341. 1988. In English with Japanese summ. FR 33(4)  
[Lab. Fish Biol., Fac. Agric., Nagoya Univ., Nagoya 464, Japan] *Potamorhynchus*.

[Northeast Fish. Cent., NMFS, NOAA, Narragansett Lab., S. F. Cent.  
RI 02882]

88-003857 Pratt, Harold L., Jr. ELASMOBRANCH GONAD STRUCTURE AND SURVEY. *Copeia* 1988(3):719-729. 1988. FR 33(4)

[U.S. Dep. Commerce, NOAA, NMFS, Northeast Fish. Cent. Narragansett, RI 02882] *Raja erinacea*.

88-003858 Prokes, Miroslav; Armando Perez Martinez and Milan Pešić. *CICHLASOMA TETRACANTHUM* IN THE POSTHATCHING PERIOD. *Fauna* 1987. In English with Russian summ. FR 33(4)

[Inst. Syst. & Ecol. Biol., Czech. Acad. Sci., Brno, Czechoslovakia]

88-003859 Randall, John E. and Malikusworo Hutomo. REDESCRIPTION OF A PACIFIC SERRANID FISH *PSEUDANTHIAS BIMACULATUS* (SMITH). *Copeia* 1988. FR 33(4)

[Div. Ichthyol., Bernice P. Bishop Mus., Box 19000-A, Honolulu, HI 96813]

88-003860 Re, Pedro. [ON THE IDENTIFICATION OF THE FISH *SARDINA PILCHARDUS* (WALBAUM, 1792) AND *ENGRAULIS ENCRASIOCHOLUS* (WALBAUM, 1958)]. *Cienc. Biol. Ecol. Syst.* 6(1/2):135-140. 1988. In Portuguese. FR 33(4)

[Dep. Zool. & Anthropol., Fac. Cienc. Univ. Lisboa, Rua Escola Politécnica, 1200-1, Portugal]

88-003861 Re, Pedro. OTOLITH MICROSTRUCTURE AND THE HISTORY EVENTS IN SARDINE AND ANCHOVY LARVAE. *Cienc. Biol. Ecol. Syst.* 17. 1986. In English. FR 33(4)

[Dep. Zool. & Anthropol., Fac. Cienc. Univ. Lisboa, Rua Escola Politécnica, 1200-1, Portugal] *Sardina pilchardus* and *Engraulis encrasiolus* in Portugal

88-003862 Rodriguez Ruiz, Amadora and Carlos Granado Lorenzo. OTOLITH STRUCTURES IN FIVE SPECIES OF *CHIROSTOMA* (PISCES: ATHINIDAE). *Trop. Zool.* 35(1):97-106. 1987. In Spanish with English summ. FR 33(4)

[Dep. Ecol., Univ. Sevilla, Apdo. 1095, 41080 Sevilla, Spain] *C. lucius*, *C. ocellonae*, and *C. sphyraena*.

88-003863 Rojo, Alfonso and Pedro Ramos. [CONTRIBUTION TO THE KNOWLEDGE OF THE RIBBON ROACH, *RUTILUS ARCASII*, STEINDACHNER 1866, OF THE JUCAR ESTUARY (PISCES: CYPRINIDAE). I. MORPHOMETRY.] *Donana Acta Vertebr.* 14:53-66. 1987. In English with English summ. FR 33(4)

[Biol. Dep., St. Mary's Univ., Halifax, NS, Canada B3H 3C3]

88-003864 Rojo, Alfonso. THE OSTEOLOGY OF *BARBUS BOCAGEI* (PISCES: CYPRINIDAE). *Donana Acta Vertebr.* 14:5-40. 1987. In French with English summ. FR 33(4)

[Biol. Dep., St. Mary's Univ., Halifax, NS, Canada B3H 3C3]

88-003865 Ross, Steve W. XANTHIC COLORATION AS THE NORMAL JUVENILE SPECKLED HIND, *EPINEPHELUS DRUMMONDHAYI* (PISCES: SCORPAENIDAE). *Copeia* 1988(3):700-701. 1988. FR 33(4)

- 03866 Roubal, Frank R. GILL SURFACE AREA AND ITS COMPONENTS IN LOWFIN BREAM, *ACANTHOPACRUS AUSTRALIS* (GUNTHER) (PISCES: SPARIDAE). *J. Zool.* 35(1):25-34. 1987. FR 33(4)  
[Dep. Parasitol., Univ. Queensland, St. Lucia, Qld. 4067, Australia]
- 03867 Schafer, Heike and Volker Blum. STUDIES ON THE SUBCOMMISSURAL ORGANIZATION OF *SALMO GAIRDNERI*. *J. Morphol.* 196(3):345-351. 1988. FR 33(4)  
[Univ.-Univ., Arbeitsgruppe Vergleichende Endokrinol., Bochum, West Germany]
- 03868 Sibbing, Ferdinand A. SPECIALIZATIONS AND LIMITATIONS IN THE UTILIZATION OF FOOD RESOURCES BY THE CARP, *CYPRINUS CARPIO*: A STUDY ON FOOD PROCESSING. *Environ. Biol. Fishes* 22(3):161-178. 1988. FR 33(4)  
[Dep. Exp. Anim. Morphol. & Cell Biol., Agric. Univ., Marijkeweg 40, 6700 ZG Wageningen, Netherlands]
- 03869 Sira, Jean-Yves. EVIDENCE THAT MINERALIZED SPIERULES ARE INVOLVED IN THE FORMATION OF THE SUPERFICIAL LAYER OF THE ELASMOID SCALE IN *CICHLASOMA OCTOFASCIATUM* AND *HEMICHROMIS BIMACULATUS* (PISCES, TELEOSTEI). EPIDERMAL ACTIVE PARTICIPATION? *Cell Tissue Res.* 253(1):165-172. 1988. FR 33(4)  
[Lab. Anat. Comp., Univ. Paris 7, 2, place Jussieu, F-75251 Paris cedex 05, France]
- 03870 Swain, D. P. EVIDENCE OF SELECTION FOR VERTEBRAL NUMBER OF FRESHWATER TROUT, *MYLOCHEILUS CAURINUS*. *Can. J. Fish. Aquat. Sci.* 45(7):1279-1290. 1988. In English with French summ. FR 33(4)  
[Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nanaimo, BC, Canada]
- 03871 Taugbol, Trond; Jostein Skurdal and Ragnvald Anderson. ECOLOGICAL SIGNIFICANCE OF DIFFERENCES IN FREQUENCY OF WHITE FIN MARGINS AMONG FRESHWATER TROUT (*SALMO TRUTTA*) POPULATIONS. *Can. J. Fish. Aquat. Sci.* 45(7):1291-1300. 1988. In English with French summ. FR 33(4)  
[Fresna Aquafarm A/S, P.O.B. 447, N-2601 Lillehammer, Norway]
- 03872 Teshima, Kazuyuki. A YELLOW SPECIMEN OF SABLEFISH TAKEN IN THE BERING SEA. *Bull. Far Seas Fish. Res. Lab.* No. 25. p. 177-178. 1988. In English with Japanese summ. FR 33(4)  
[Far Seas Fish. Res. Lab., 7-1, 5-chome Ordo, Shimizu 424, Japan]
- 03873 Tota, B.; F. Farina and G. Zuinno. ULTRASTRUCTURAL ASPECTS OF FUNCTIONAL INTEREST IN THE VENTRICULAR MYOCARDIAL WALL OF THE ANTARCTIC FISH *CHAENOCEPHALUS ACERATUS*. *Comp. Biochem. Physiol. D Comp. Biochem. Physiol.* 101(5):561-566. 1988. FR 33(4)  
[Dep. Exp. Pharm., Fac. Pharm., Univ. Naples, Via Rodino, 80138 Naples, Italy]
- 03874 Van Der Merwe, W.; J. H. J. Van Vuran and J. F. Vormaak. CYTOLOGICAL AND MORPHOLOGICAL CHANGES IN THE OVARY OF MUDFISH, *LABEO CAPE*. *Aquaculture* 72(3/4):349-358. 1988. FR 33(4)  
[Van Vuran: Res. Unit. Fish Biol., Rand Afrikaans Univ., P.O. Box 525, Johannesburg, South Africa]



88-003876 Wainwright, Peter C. MORPHOLOGY AND ECOLOGY: FEEDING CONSTRAINTS IN CARIBBEAN LABRID FISHES. *Ecology* 69(1):33(4)

[Dep. Dev. & Cell Biol., Univ. Calif., Irvine 92717] *Halichoeres pluvittatus*, and *H. maculipinna*.

88-003877 Ward, Paul I. SEXUAL DICHROMATISM AND PARASITISM IN IRISH FRESHWATER FISH. *Anim. Behav.* 36(4):1210-1215. 1988. FR 33(4)

[Dep. Zool., Univ. Liverpool, Liverpool L69 3BX, England]

88-003878 Watanabe, Hiroko. MORPHOLOGICAL STUDY ON THE PSEUDO-OSTIUM OF *CYPRINUS CARPIO*. *Jpn. J. Vet. Res.* 36(2):179. 1988. Abstract only

[Dep. Vet. Anat., Fac. Vet. Med., Hokkaido Univ., Sapporo 060, Japan]

88-003879 Whitear, M. 'TUBULE BODIES' IN THE EPIDERMIS OF *CYPRINUS CARPIO*. *Fish Biol.* 33(1):165-166. 1988. FR 33(4)

[Dep. Biol., University Coll., Gower St., London WC1E 6BT, England]

88-003880 Zeisko, Eckart; Birgit Theisen and Samuel H. Gruber. MORPHOLOGY OF THE OLFACTORY ORGAN OF TWO CARCHARHINID SHARKS. *Can. J. Zool.* 65(10):2406-2412. 1987. In English with French summ. FR 33(4)

[Zool. Inst., Univ. Hamburg, Martin Luther King Platz 3, D-20099 Hamburg, Germany] *Negaprion brevirostris* and *Carcharhinus falciiformis*.

88-003881 Zheng, W. B. and W. S. Liu. MORPHOLOGY AND HISTOLOGY OF THE SWIMBLADDER AND ULTRASTRUCTURE OF RESPIRATORY EPITHELIUM IN BREATHING CATFISH, *PANGASIUS SUTCHI* (PANGASIIDAE). *J. Fish Biol.* 33(4):409-418. 1988. FR 33(4)

[Res. Sect. Ichthyol., Dep. Biol., S. China Normal Univ., Guangzhou 510640, China]

88-003882 Zhigalln, A. Yu. [ESTIMATION OF GONADOSOMATIC INDEX IN *SARDINE*.] *Mar. Biol. Vladivostok* 1987(5):72-74. 1987. In Russian with English summ. FR 33(4)

[Lab. Fish. Resour. Kuroshio, Pac. Res. Inst. Fish. & Oceanogr., USSR] *Sardinops melanosticta*.

## PHYSIOLOGY

88-003883 Alhossaini, M. and T. J. Pitcher. THE RELATION BETWEEN BODY GROWTH AND ENVIRONMENTAL FACTORS IN PLAICE, *PLEURONectes VEXILLIFERUS*. L. JUVENILE OTOLITHS. *J. Fish Biol.* 33(3):409-418. 1988. FR 33(4)

[School Anim. Biol., University Coll. North Wales, Bangor, Gwynedd LL57 2DQ, Wales]

88-003884 Ando, Masaaki. AMINO ACID METABOLISM AND WATER UPTAKE IN THE SEAWATER EEL INTESTINE. *J. Exp. Biol.* 138:93-106. 1988. FR 33(4)

[Lab. Physiol., Fac. Integrated Arts & Sci., Hiroshima Univ., Higashi-1-1, Higashi-ku, Hiroshima 731, Japan] *Anguilla japonica*.

88-003885 Ando, Seiichi; Hirohito Kodama; Yuji Kawai and Mutsuo Hatanaka. PURINE NUCLEOTIDES BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY AND ITS APPLICATION FOR ANADROMOUS SALMONID FISHES. *Bull. Fac. Fish. Hokkaido Univ.* 39(2):142-150. 1988. In English. FR 33(4)

[Lab. Food Chem. I, Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]  
*gorbuschn* and *O. masou*.

88-003886 Angelidis, P.; F. Baudin-Laurencin and P. Youinou. EFFECT OF TEMPERATURE ON CHEMILUMINESCENCE OF PHAGOCYTES FROM *DICENTRARCHUS LABRAX* L. *J. Fish Dis.* 11(4):281-288. 1988. FR 33(4)

[Baudin-Laurencin: Lab. Natl. Pathol. Anim. Aquat., IFREMER, Plouzane, France]

88-003887 Audet, Celine and Chris M. Wood. DO RAINBOW TROUT (*SALMO GAIRDNERI*) ACCLIMATE TO LOW pH? *Can. J. Fish. Aquatic Sci.* 45(8):1399-1405. 1988. In English with French summ. FR 33(4)

[INRS-Oceanol., 310 ave. des Ursulines, Rimouski, PQ, Canada G5L 3A1]

88-003888 Audet, Celine; R. Stephen Munger and Chris M. Wood. LONG-TERM ACID EXPOSURE IN RAINBOW TROUT (*SALMO GAIRDNERI*) IN SOFT WATER: ION EXCHANGES AND BLOOD CHEMISTRY. *Can. J. Fish. Aquatic Sci.* 45(8):1406-1414. 1988. In English with French summ. FR 33(4)

[INRS-Oceanol., 310 ave. des Ursulines, Rimouski, PQ, Canada G5L 3A1]

88-003889 Austin, B. and D. McIntosh. NATURAL ANTIBACTERIAL COMPOUNDS ON THE SURFACE OF RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON. *J. Fish Dis.* 11(3):277. 1988. FR 33(4)

[Dep. Brewing & Biol. Sci., Heriot-Watt Univ., Chambers St., Edinburgh, Scotland]

88-003890 Axelsson, Michael. THE IMPORTANCE OF NERVOUS MECHANISMS IN THE CONTROL OF CARDIAC PERFORMANCE IN THE CARP, *CYPRINUS CARPIO* L. AT REST AND DURING NON-EXHAUSTIVE EXERCISE. *Acta Physiol. Scand.* 137:287-303. 1988. FR 33(4)

[Comp. Neurosci. Unit, Dep. Zoophysiol., Univ. Goteborg, P.O. Box 4003, Goteborg, Sweden]

88-003891 Babu, P. Rajendra and P. D. Prasada Rao. RETINAL PROTEIN PROFILE OF CATFISH, *MYSTUS VITTATUS* (BLOCH) AS REVEALED BY TRACE ANALYSIS OF HORSERADISH PEROXIDASE. *Cell Tissue Res.* 253(1):259-262. 1988. FR 33(4)

[Prasada Rao: Dep. Zool., Nagpur Univ., Univ. Campus, Nagpur 440010, India]

88-003892 Baker, Gary Earl. EXPERIMENTAL STUDIES ON THE ORGANIZATION OF THE GUSTATORY SYSTEMS OF THE CARP, (*CYPRINUS CARPIO*). *Ph.D. dissertation, Natl. Academic Awards (United Kingdom)* 137p. 1987. From Diss. Abstr. 19(2):329-330. 1988. FR 33(4)

88-003893 Baker, Ian J.; Igor I. Solar and Edward M. Donaldson. MASS SCREENING OF CHINOOK SALMON (*ONCORHYNCHUS Tshawytscha*) BY IMMERSION TO 17 $\alpha$ -METHYLTESTOSTERONE AROUND THE TIME OF HATCHING. *Aquaculture* 67:109-114. 1988. FR 33(4)

- 88-003895 Ban, Masatoshi; Noboru Kasahara and Kohai Yamauchi. CHANGES IN THE HATCHERY-REARED UNDERYEARLING MASU SALMON (*MASOU*) DURING SMOLTIFICATION. ] *Sci. Rep. Hokkaido Fish Hatchery* 1987. In Japanese with English summ. FR 33(4)  
[Fac. Fish., Hokkaido Univ., Hokkaido, Japan]
- 88-003896 Ban, Masatoshi; Noboru Kasahara and Kohei Yamauchi. CHANGES IN THE HATCHERY-REARED YEARLING MASU SALMON (*MASOU*) DURING SMOLTIFICATION. ] *Sci. Rep. Hokkaido Fish Hatchery* 1987. In Japanese with English summ. FR 33(4)  
[Fac. Fish., Hokkaido Univ., Hokkaido, Japan]
- 88-003897 Begovac, Paul C. and Robin A. Wallace. STAGES OF OOCYTES IN THE PIPEFISH, *SYNGNATHUS SCOVELLI*. *J. Morphol.* 197(3):353-369.  
[Univ. Tex., M.D. Anderson Cancer Cent., Dep. Biochem. & Holcombe Blvd., Houston 77030]
- 88-003898 Benavides, A. Gonzalo; Francisco Bozinovic; Juan M. Cancian. [ASSIMILATION OF ALGAE BY LITTORAL CHILEAN FISHES: *SICOPHTERUS* (GOBIOSOCIDAE) AND *APLODACTYLUS PUNCTATUS* (APLODACTILIDAE)]. *Chil. J. Zool.* 8(1):21-26. 1986. In Spanish with English summ. FR 33(4)  
[Dep. Cienc. Ecol., Fac. Cienc., Univ. Chile, Casilla 653, Santiago.]
- 88-003899 Bernatchez, L. and J. J. Dodson. EXTENDED FRESHWATER RESIDENCE PRIOR TO SPAWNING: THE INFLUENCE OF WATER VELOCITY AND TEMPERATURE ON SPAWNING CAPACITY AND ITS ROLE IN CONTROLLING THE UPSTREAM MIGRATION OF ANADROMOUS COREGONINES OF JAMES BAY, QUEBEC. *Am. Fish. Soc. Symp.* 1:556. 1987. Abstract only. FR 33(4)  
[Dep. Biol., Univ. Laval, Quebec, PQ, Canada G1K 7P4] *Coregonus artedii*.
- 88-003900 Bernatchez, L. and J. J. Dodson. WHY DO SO MANY ANADROMOUS POPULATIONS MINIMIZE THE ENERGETIC COST OF THEIR UPSTREAM MIGRATION? *Fish. Soc. Symp.* 1:556. 1987. Abstract only. FR 33(4)  
[Dep. Biol., Univ. Laval, Quebec, PQ, Canada G1K 7P4] *Oncorhynchus tshawytscha* and *O. tshawytscha*.
- 88-003901 Berry, Charles R., Jr. EFFECTS OF COLD SHOCK ON COOLWATER LARVAE. *Southwest. Nat.* 33(2):193-197. 1988. FR 33(4)  
[Coop. Fish & Wildl. Res. Unit, S.D. State Univ., Brookings 57007] in Colorado.
- 88-003902 Bianchini, L.; B. Fossat; J. Porthe-Nibelle; J. C. E. E. EFFECTS OF HYPOSMOTIC SHOCK ON ION FLUXES IN ISOLATED TRACHEAL CELLS. *J. Exp. Biol.* 137:303-318. 1988. FR 33(4)  
[Lab. Physiol. Cellulaire & Comparee & UA CNRS 651, Fac. Sci., Paris 6, Cedex, France] *Salmo gairdneri*.
- 88-003903 Binkowski, Fred P. and Sergel I. Doroshov. SPAWNING BEHAVIOR AND ANALYSIS OF REPRODUCTIVE CONDITIONS OF GULL ISLAND SHOALWATER SCUMMERS. *Assoc. Great Lakes Res. Conf.* 30:A-5. 1987. Abstract only. FR 33(4)

- 003904 Boge, G.; L. Lopez and G. Peres. AN *IN VIVO* STUDY OF THE RO  
 LORIC CAECA IN WATER ABSORPTION IN RAINBOW TROUT (*SALMO GAIRO*  
*op. Blochem. Physiol. A Comp. Physiol.* 91(1):9-13. 1988. FR 33(4)  
 Inst. Michel Pacha, Lab. Maritime Physiol. 1337, Corniche Michel Pacha, F-83  
 ne Sur Mer, France]
- 003905 Bowmaker, J. K.; H. J. A. Dartnall and P. J. Herring. LONGWAVE-SENS  
 UAL PIGMENTS IN SOME DEEP-SEA FISHES: SEGREGATION OF 'PAIRED' RHODO  
 O PORPHYROPSINS. *J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 163(5):68  
 B. FR 33(4)  
 School Biol. Sci., Queen Mary Coll., Univ. London, Mile End Rd., London E1  
 land] *Aristostomus grimaldii*, *Malacosteus niger*, and *Pachystomus microdan*.
- 003906 Bradley, James T. and John M. Grizzle. CHANNEL CATFISH VITELLOGEN  
*Acad. Sci.* 59(3):106. 1988. Abstract only. FR 33(4)  
 Dep. Zool. & Wildl. Sci., Auburn Univ., Auburn, AL 36849] *Ictalurus punctatus*.
- 003907 Bradley, Terence M. CHANGES IN HEPATIC MITOCHONDRIAL PROTEIN  
 HELHEAD DURING THE PARR-SMOLT TRANSFORMATION. *Am. Fish. Soc. Symp.*  
 . 1987. FR 33(4)  
 Dep. Fish., Aquacult. & Pathol., Univ. R.I., Kingston 02881] *Salmo gairdneri*.
- 003908 Bratton, Bradford O. and Bernd Kramer. INTRASPECIFIC VARIABILITY  
 E PULSE-TYPE DISCHARGES OF THE AFRICAN ELECTRIC FISHES, *POLLIM*  
*DORI* AND *PETROCEPHALUS BOVEI* (MORMYRIDAE, TELEOSTEI), AND  
 PENDENCE ON WATER CONDUCTIVITY. *Exp. Biol. (Berl.)* 47(4):227-238. 1988. FR  
 Kramer: Zool. Inst. Univ., D-8400 Regensburg, West Germany]
- 003909 Bromley, P. J. GASTRIC DIGESTION AND EVACUATION IN WH  
 RLANGIUS MERLANGUS (L.). *J. Fish Biol.* 33(2):331-338. 1988. FR 33(4)  
 MAFF, Fish. Lab., Lowestoft, Suffolk NR33 0HT, England]
- 003910 Brook, A. J. and N. R. Bromage. PHOTOPERIOD: THE PRIN  
 VIRONMENTAL CUE FOR REPRODUCTION IN THE DACE (*LEUCISCUS LEUCISCU*  
*erdtspl. Cycle Res.* 19(3):165-166. 1988. Abstract only. FR 33(4)  
 Fish Cult., Aston Univ., Aston Triangle, Birmingham B4 7ET, England]
- 003911 Burger, C. V. THERMAL ADAPTATIONS IN ALASKAN CHINOOK AND SO  
 LMON. *Am. Fish. Soc. Symp.* 1:553. 1987. Abstract only. FR 33(4)  
 U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cent., 1011 E. Tudor Rd., Anchorage  
 03] *Oncorhynchus nerka* and *O. tshawytscha*.
- 003912 Byrne, Kyle Richard. AN ASSESSMENT OF LEUKOCYTE CLASSES IN ATL  
 LMON, *SALMO SALAR* L. *Ph.D. dissertation, Univ. Mass.* 198p. 1987. From Diss.  
 . B Sci. Eng. 49(3):661. 1988. FR 33(4)
- 003913 Cala, Plutarco. [HISTOMORPHOLOGICAL CHANGES IN THE TESTI  
 EMOPHILUS MUTISII DURING THE ANNUAL REPRODUCTIVE CYCLE IN THE BO  
 YMER, COLOMBIA.] *Caldasia* 14(68-70):659-678. 1986. In Spanish with English sum  
 4)

88-003914 Callard, Gloria V.; Jennifer L. Specker; Jonathan Knap and Howard A. Bern. AROMATASE IS CONCENTRATED IN THE PRO OF TILAPIA PITUITARY. *Gen. Comp. Endocrinol.* 71(1):70-79. 1988.

[Dep. Biol., Boston Univ., 2 Cummington St., Boston, MA *mossambicus*.

88-003915 Canario, A. V. M. and A. P. Scott. STRUCTURE-ACT OF C21 STEROIDS IN AN *IN VITRO* OOCYTE MATURATION B TROUT, *SALMO GAIIRDNERI*. *Gen. Comp. Endocrinol.* 71(2):338-348.

[MAFF, Dir. Fish. Res., Fish. Lab., Lowestoft, Suffolk NR33 OHT

88-003916 Cann-Moisan, C.; Ph. Sebert; J. Caroff and L. Ba HYDROSTATIC PRESSURE (HP = 101 ATA) ON NUCLEOT DINUCLEOTIDES TISSUE CONTENTS IN TROUT. *Exp. Biol.* (Be 33(4)

[Lab. Physiol., UA CNRS 648, Fac. Med., BP 815, F-29285 Brest *gairdneri*.

88-003917 Carpenter Livermore, Rochelle and Jeffrey R. H. MICROSOMAL ACYL-CoA: LYSOPHOSPHATIDYLCHOLINE ACYLTRAF OF THERMALLY-ACCLIMATED RAINBOW TROUT, *SALMO GAIIRDNE*. *Biochem. Syst. Environ. Physiol.* 158(3):363-368. 1988. FR 33(4)

[Dep. Zool., Ariz. State Univ., Tempe 85287]

88-003918 Castro, Jose I.; Patricia M. Bubucis and Neal REPRODUCTIVE BIOLOGY OF THE CHAIN DOGFISH *SCYLIORH*. 1988(3):740-746. 1988. FR 33(4)

[Dep. Biol. Sci., Clemson Univ., Clemson, SC 29631]

88-003919 Chakraborti, P. K. and M. Weisbart. HIGH-AFFINITY ACTIVITY IN THE LIVER OF THE BROOK TROUT, *SALVELINUS FO*. *Can. J. Zool.* 65(10):2498-2503. 1987. In English with French summ.

[Weisbart: Dep. Biol., St. Francis Xavier Univ., Antigonish, NS,

88-003920 Coates, D. LENGTH-DEPENDENT CHANGES IN EGG SI FEMALES, AND BROODED EMBRYO SIZE IN MALES, OF FO (PISCES: ARIIDAE) FROM THE SEPIK RIVER, PAPUA NEW IMPLICATIONS FOR STOCK ASSESSMENTS. *J. Fish. Biol.* 33(3):455

[FAO, c/o United Nations Dev. Programme, P.O. Box 1041, Po Guinea] *Arlus leptaspls*, *Brustlarlus nox*, and *Hemipimelodus velutln*

88-003921 Conlon, J. Michael and Lars Thim. ISOLATION O DES[SER<sup>1</sup>PRO<sup>2</sup>] SCYLIORHININ II FROM THE INTESTINE O *MARMORATA*. *Gen. Comp. Endocrinol.* 71(3):383-388. 1988. FR 33(4)

[Clinical Res. Group Gastrointestinal Endocrinol. Max-Plan Gottingen, Gosslerstr. 10D, D-3400 Gottingen, West Germany]

88-003922 Conlon, J. Michael; P. C. Andrews; Sture Falkmor and AND STRUCTURAL CHARACTERIZATION OF INSULIN FROM THE *CHIMAERA MONSTROSA* (RABBIT FISH). *Gen. Comp.*

003922 CONTINUED *Endocrinol.* 72(1):154-160. 1988. FR 33(4)  
[Clinical Res. Group Gastrointestinal Endocrinol. Max-Planck-Gesellschaft,  
Göttingen, Gosslerstr. 100, D-3400 Göttingen, West Germany]

003923 Copeland, P. A. and P. Thomas. THE MEASUREMENT OF P  
TELLOGENIN LEVELS IN MARINE TELEOST. THE SPOTTED SEATROUT (*CYNO  
BULOSUS*) BY HOMOLOGOUS RADIOIMMUNOASSAY. *Comp. Biochem. Physiol. B  
Biochem.* 91(1):17-23. 1988. FR 33(4)  
[Univ. Tex., Mar. Sci. Inst., Port Aransas 78373-1267]

003924 Cowey, C. B. and M. J. Walton. STUDIES ON THE UPTAKE OF (<sup>14</sup>C)  
AMINO ACIDS DERIVED FROM BOTH DIETARY (<sup>14</sup>C) PROTEIN AND DIETARY (<sup>14</sup>C) AMINO  
ACIDS BY RAINBOW TROUT, *SALMO GAIIRDNERI* RICHARDSON. *J. Fish Biol.* 33(2):293-305  
1988. FR 33(4)  
[NERC, Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen AB1 3RA, Scotland]

003925 Crespo, S.; F. Padros; R. Sala and M. J. Marlasca. GILL STRUCTURE  
OF CULTURED *SALMO TRUTTA FARIO* RELATED TO SAMPLING TECHNIQUES. *Dis.  
Piscicult.* 4(3):219-221. 1988. FR 33(4)  
[Lab. Biol., Fac. Vet., U.A.B., Bellaterra, Barcelona, Spain]

003926 Crim, Laurence W.; John J. Nestor, Jr. and Connie E. Wilson. STUDIES ON THE ENDOCRINOLOGICAL ACTIVITY OF LHRH ANALOGS IN THE RAINBOW TROUT, LANDLOCKED SALMON, AND THE WINTER FLOUNDER. *Gen. Comp. Endocrinol.* 71(3):372-382. 1988. FR 33(4)  
[Mar. Sci. Res. Lab., Memorial Univ. Newfoundland, St. John's, NF, Canada A1B 4X9]  
[*Salmo gairdneri*, *Pseudopleuronectes americanus*, and *S. salar*.]

003927 Cui, Y. and R. J. Wootton. BIOENERGETICS OF GROWTH OF A CYPRINID FISH, *PHOXINUS PHOXINUS*: THE EFFECT OF RATION, TEMPERATURE AND BODY SIZE ON FEED CONSUMPTION, FAECAL PRODUCTION AND NITROGENOUS EXCRETION. *J. Fish Biol.* 33(3):431-443. 1988. FR 33(4)  
[Wootton: Dep. Zool., University Coll. Wales, Aberystwyth, Dyfed, Wales]

003928 Curjak, Richard A.; R. Allen Curry and Geoffrey Power. SEASONAL ENERGY BUDGET OF BROOK TROUT IN STREAMS: IMPLICATIONS OF A POSSIBLE DEFICIT IN ENERGY STORES EARLY WINTER. *Trans. Am. Fish. Soc.* 116(6):817-828. 1987. FR 33(4)  
[Canada Dep. Fish. & Oceans, Sci. Branch Gulf Region, P.O. Box 5030, Moncton, New Brunswick, Canada E1C 9B6] *Salvelinus fontinalis* in Canada.

003929 Cyr, Daniel G. and J. G. Eales. INFLUENCE OF THYROIDAL STATUS ON METABOLIC FUNCTION IN RAINBOW TROUT, *SALMO GAIIRDNERI*. *J. Exp. Zool.* 216(1):1-10. 1988. FR 33(4)  
[Dep. Zool., Univ. Manitoba, Winnipeg, MB, Canada R3T 2N2]

003930 D'Avino, Rossana and Guido di Prisco. ANTARCTIC FISH HEMOGLOBIN: AN OUTLINE OF THE MOLECULAR STRUCTURE AND OXYGEN BINDING PROPERTIES. I. MOLECULAR STRUCTURE. *Comp. Biochem. Physiol. B Comp. Biochem.* 90(3):579-588. 1988. FR 33(4)  
[Int. Inst. Genet. & Biophysics, C.N.R., Via Marconi 10, 80125 Naples, Italy]

88-003931 Dabrowski, K.; S. Hintorleitner; C. Sturmbauer; N. E. CARP LARVAE REQUIRE VITAMIN C7 *Aquaculture* 72(3/4):295-306. [Inst. Zool., Univ. Innsbruck, 6020-Innsbruck, Austria] *Cyprinu*

88-003932 Date, Kaoru and Yoshikazu Yamamoto. [SEASONAL VARIATION IN NUTRITIVE COMPONENTS IN MEAT OF CULTURED *QUINQUERADIATA*.] *Nippon Suisan Gakkaishi* 54(6):1041-1047. English summ. FR 33(4)  
[Dep. Food Sci., Fac. Home Econ., Kobe Coll., Nishinomiya, Hyogo]

88-003933 de Leeuw, R.; C. Van't Veer; W. Smit-Van Dijk; H. J. J. Van Oort. BINDING AFFINITY AND BIOLOGICAL ACTIVITY OF RELEASED HORMONE ANALOGS IN THE AFRICAN CATFISH, *Aquaculture* 71(1/2):119-131. 1988. FR 33(4)  
[Dep. Exp. Zool., Res. Group Comp. Endocrinol., Univ. Utrecht, Utrecht, Netherlands]

88-003934 Decker, Eric A.; Marilyn C. Erickson and Herbert O. OXIDATIVE ACTIVITIES OF SARCOPLASMIC RETICULUM IN SOUTHWEST ATLANTIC FISH. *Comp. Biochem. Physiol. B Comp. Biochem. Physiol.* FR 33(4)  
[Univ. Mass. Mar. Stn., P.O. Box 7128, Lanesville Stn., Gloucester, Mass.]

88-003935 Degani, G. and M. L. Gallagher. EFFECTS OF DIFFERENT TREATMENTS IN REDUCING LARGE VARIANCES IN GROWTH RATES OF *Anguilla rostrata*. *Am. Fish. Soc. Symp.* 1:581. 1987. Abstract only. FR 33(4)  
[Galilee Technol. Cent., Israel]

88-003936 Detrich, H. William III and Susan A. Overton. ANTARCTIC FISH HETEROGENEITY, STRUCTURE, AMINO ACID COMPOSITIONS AND METABOLISM. *Biochem. Physiol. B Comp. Biochem. Physiol.* 90(3):593-600. 1988. FR 33(4)  
[Dep. Biochem., Univ. Miss. Med. Cent., Jackson 39216-4505] *N. coriiceps neglecta*, and *Chaenocephalus aceratus*.

88-003937 DeVries, Arthur L. THE ROLE OF ANTIFREEZE GLYCOPROTEIN PEPTIDES IN THE FREEZING AVOIDANCE OF ANTARCTIC FISH. *Physiol. B Comp. Biochem. Physiol.* 90(3):611-621. 1988. FR 33(4)  
[Dep. Physiol. & Biophysics, Univ. Ill., Urbana 61801] *Pagrus auratus*, *Rhizophylla dearborni*, and *Chaenocephalus aceratus*.

88-003938 di Prisco, G.; B. Maresca and B. Tota, editors. MARINE BIOLOGY OF ANTARCTIC ORGANISMS. PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MARINE BIOLOGY OF ANTARCTICA, RAVELLO, ITALY. *Comp. Biochem. Physiol. B Comp. Biochem. Physiol.* 90(3):459-637. 1988. FR 33(4)  
[Int. Inst. Genet. & Biophysics, C.N.R., Via Marconi 10, 80125 Naples, Italy]

88-003939 di Prisco, Guido; Bruno Giardina; Rossana D'Avino; Saverio Bellelli and Maurizio Brunori. ANTARCTIC FISH HEMOGLOBIN: ANTIMETABOLIC MOLECULAR STRUCTURE AND OXYGEN BINDING PROPERTIES - II. *Comp. Biochem. Physiol. B Comp. Biochem. Physiol.* 90(3):585-591. 1988. FR 33(4)  
[Int. Inst. Genet. & Biophysics, C.N.R., Naples, Italy]

- 003940 di Prisco, Guido. A STUDY OF HEMOGLOBIN IN ANTARCTIC FISH: ACCLIMATION AND CHARACTERIZATION OF HEMOGLOBINS FROM FOUR SPECIES. *Comp. Biochem. Physiol. B Comp. Biochem.* 90(3):631-637. 1988. FR 33(4)  
[Inst. Genet. & Biophysics, C.N.R., Via Marconi 10, 80125 Naples, Italy]  
[*Chaenichthys charcoti*, *Notothenia rossii*, *N. gibberifrons*, and *N. coriiceps neglecta*]
- 003941 Dickhoff, Walton W. and Craig V. Sullivan. INVOLVEMENT OF THE THYROID GLAND IN SMOLTIFICATION, WITH SPECIAL REFERENCE TO METABOLIC DEVELOPMENTAL PROCESSES. *Am. Fish. Soc. Symp.* 1:197-210. 1987. FR 33(4)  
[School Fish. WH-10, Univ. Wash., Seattle 98195]
- 003942 Diwan, A. D. and L. Krishnan. LEVELS OF CHOLESTEROL IN BLOOD AND GONADS IN RELATION TO MATURATION IN *ETROPLUS SURATENSIS* (BLOCH). *J. Fish. Biol.* 33(2):241-245. 1986. FR 33(4)  
[Cent. Mar. Fish. Res. Inst., Cochin 682031, India]
- 003943 Dores, Robert M. and Joan M. P. Joss. IMMUNOLOGICAL EVIDENCE FOR MULTIPLE FORMS OF  $\alpha$ -MELANOTROPIN ( $\alpha$ -MSH) IN THE PARIS INTERMEDIA OF AUSTRALIAN LUNGFISH, *NEOCERATODUS FORSTERI*. *Gen. Comp. Endocrinol.* 71(3):203-210. 1988. FR 33(4)  
[Univ. Denver, Dep. Biol. Sci., Denver, CO 80208]
- 003944 Driedzic, William R. MATCHING OF CARDIAC OXYGEN DELIVERY AND METABOLIC DEMAND IN TELEOSTS AND CEPHALOPODS. *Can. J. Zool.* 66(5):653-660. 1988. In English with French summ. FR 33(4)  
[Biol. Dep., Mt. Allison Univ., Sackville, NB, Canada E0A 3C0]
- 003945 Du Bois, M. Bailly; C. Milot; M. Garabedian; H. Guillozo; E. Martelly; E. S. Balsan. CALCIUM-DEPENDENT METABOLISM OF 25-HYDROXYCHOLECALCIFEROL IN EEL TISSUES. *Gen. Comp. Endocrinol.* 71(1):1-9. 1988. FR 33(4)  
[CNRS UA. 583, Hôpital Enfants-Malades, 149 rue Sevres, 75015 Paris, France]
- 003946 Dunbrack, Robert L. FEEDING OF JUVENILE COHO SALMON (*ONCORHYNCHUS KETUS*): MAXIMUM APPETITE, SUSTAINED FEEDING RATE, APPETITE RETURN AND BODY SIZE. *Can. J. Fish. Aquat. Sci.* 45(7):1191-1196. 1988. In English with French summ. FR 33(4)  
[Dep. Fish. & Oceans, 716 Fraser St., Prince Rupert, BC, Canada V8J 1P9]
- 003947 Dunn, J. F. LOW-TEMPERATURE ADAPTATION OF OXIDATIVE PHOSPHORYLATION IN COLD-WATER FISHES. *Can. J. Zool.* 66(5):1098-1104. 1988. In English with French summ. FR 33(4)  
[Dep. Biochem., Univ. Oxford, S. Parks Rd., Oxford OX1 3QU, England]
- 003948 Dunn, J. F. MUSCLE METABOLISM IN ANTARCTIC FISH. *Comp. Biochem. Physiol. B Comp. Biochem.* 90(3):539-545. 1988. FR 33(4)  
[Dep. Biochem., Univ. Oxford, S. Parks Rd., Oxford OX1 3QU, England]



88-003949 Dunstan, Graeme A.; Andrew J. Sinclair; Kerin O Dea and  
THE LIPID CONTENT AND FATTY ACID COMPOSITION OF VARIOUS  
FROM SOUTHERN AUSTRALIAN COASTAL WATERS. *Comp. Biochem.  
Biochem.* 91(1):165-169. 1988. FR 33(4)

[Sinclair: Dep. Appl. Biol., RMIT, G.P.O. Box 2476V, Melbourne, V

88-003950 Dutil, J.-D.; M. Besner and S. D. McCormick. OSMOTIC  
IONOREGULATORY CHANGES AND ASSOCIATED MORTALITIES DURING  
OF MATURING AMERICAN EELS TO A MARINE ENVIRONMENT. *Arch. Fish. Aquacult.*  
1:175-190. 1987. FR 33(4)

[Minist. Peches & Oceans, C.P. 1000, 850, Rt. Mer Mont-Joli, P.Q.  
*Anguilla rostrata*.

88-003951 Dye, John. AN *IN VITRO* PHYSIOLOGICAL PREPARATION OF  
COMMUNICATORY BEHAVIOR: CHIRPING IN THE WEAKLY  
APTERONOTUS. *J. Comp. Physiol. A Sens. Neural. Behav. Physiol.*  
FR 33(4)

[Dep. Neurosci. & Neurobiol. Unit, Scripps Inst. Oceanogr., UCSD  
92093] *A. leptorhynchus*.

88-003952 Eastman, Joseph T. LIPID STORAGE SYSTEMS AND THE  
NEUTRALLY BUOYANT ANTARCTIC NOTOTHIENIID FISHES. *Comp. Biochem.  
Comp. Biochem.* 90(3):529-537. 1988. FR 33(4)

[Dep. Zool. & Coll. Osteopathic Med., Ohio Univ., Athens 4570  
*antarcticum* and *Dissostichus mawsoni*.

88-003953 Epifanio, Charles E.; David Goshorn and Timothy E. Tarant  
SPAWNING IN THE WEAKFISH, *CYNOSCION REGALIS*. *U.S. Natl. Mar. Fish. Bull.*  
86(1):168-171. 1988. FR 33(4)

[Coll. Mar. Studies, Univ. Del., Lewes 19958]

88-003954 Evans, David H. and Kane J. More. MODES OF AMMONIA  
THE GILL EPITHELIUM OF THE DOGFISH PUP (*SQUALUS ACANTHODON*).  
138:375-397. 1988. FR 33(4)

[Dep. Zool., Univ. Fla., Gainesville 32611]

88-003955 Farrell, A. P.; J. A. Johansen and M. S. Graham. THE  
PERICARDIUM IN CARDIAC PERFORMANCE OF THE TROUT (*SALMO GATRA*).  
*Zool.* 61(3):213-221. 1988. FR 33(4)

[Dep. Biol. Sci., Simon Fraser Univ., Burnaby, BC, Canada V5A 1S5]

88-003956 Fida, Shahnaz; M. Yaseen Qadri and Maqsood Siddiqui. EFFECTS OF  
ENVIRONMENTAL CONDITIONS ON THE OVARIAN CYCLE AND SEXUAL MATURATION OF  
*CYPRINUS CARPIO* IN THE DAL LAKE, KASHMIR (INDIA). *Freshwater Fish.*  
1988. FR 33(4)

[Siddiqui: Dep. Biochem., Univ. Kashmir, Srinagar-190006, India]

88-003957 Fields, Robert; Shirley S. Lowe; Christine Kaminski;  
David P. Philipp. CRITICAL AND CHRONIC THERMAL MAXIMA OF  
FLORIDA LARGEMOUTH BASS AND THEIR RECIPROCAL  $F_1$  AND  $F_2$  HYBRIDS.  
*Fish. Soc.* 116(6):856-863. 1987. FR 33(4)

[Dep. Zool., Wash. State Univ., Pullman 99164] (*Micropterus salmoides*)

- 003959 Fishelson, Iev.; W. Linn Montgomery and Arthur A. Myrberg, Jr. A ULTRASTRUCTURAL ANALYSIS OF THE GUT OF TROPICAL HERBIVOROUS SURGEONFISH (ACANTHURUS LINEATUS) FROM THE RED SEA. *Science* 229(4703):49-51. 1985. FR 33(4)  
 Dep. Zool., Tel Aviv Univ., Ramat Aviv, Tel Aviv, Israel] *Acanthurus*.
- 003960 Fitzsimons, John D. and V. Cairns. A COMPARISON OF LAKE TROUT REPRODUCTIVE PHYSIOLOGY BETWEEN SELF-SUSTAINING AND INTRODUCED POPULATIONS. *Int. Assoc. Great Lakes Res. Conf.* 30:A-19. 1987. Abstract only. FR 33(4)  
 Great Lakes Lab. Fish. & Aquat. Sci., Burlington, ON, Canada L7R 4A6] *Salvelinus maydashi*.
- 003961 Fletcher, Garth L.; Ming H. Kao and J. Brian Dempson. LETHAL FREEZE TEMPERATURES OF ARCTIC CHAR AND OTHER SALMONIDS IN THE PRESENCE OF OXYGEN. *Aquaculture* 71(4):369-378. 1988. FR 33(4)  
 Aquac. Sci. Res. Lab., Memorial Univ. Newfoundland, St. John's, NF, Canada A1C 6X9] *Salvelinus fontinalis*, *S. alpinus*, *Salmo salar*, *S. trutta*, and *S. gairdneri*
- 003962 Fuchs, D. A. and C. Albers. EFFECT OF ADRENALINE AND BLOOD OXYGEN CONDITIONS ON RED CELL VOLUME AND INTRA-ERYTHROCYTIC ELECTROLYTES IN THE COMMON CARP, *CYPRINUS CARPIO*. *J. Exp. Biol.* 137:457-477. 1988. FR 33(4)  
 Dep. Physiol., Univ. Regensburg, D-8400 Regensburg, West Germany]
- 003963 Fujiwara, Shunji and David G. Hankin. SEX RATIO, SPAWNING PERIOD, SIZE AND AGE AT MATURITY OF SABLEFISH *ANOPELOPOMA FIMBRIA* OFF NORTH CALIFORNIA. *Nippon Suisan Gakkaishi* 54(8):1333-1338. 1988. In English with Japanese. FR 33(4)  
 Ocean Res. Inst., Univ. Tokyo, Minamidai, Nakano, Tokyo 164, Japan]
- 003964 Gee, John H. and Raymond A. Ratynski. BUOYANCY REGULATION DURING TOXIC STRESS IN STICKLEBACKS (*CULAEA INCONSTANS*, *PUNGITIUS PUNGITIVUS*) AND THE MINNOW (*PIMEPHIALES PROMELAS*). *Physiol. Zool.* 61(4):301-311. 1988. FR 33(4)  
 Dep. Zool., Univ. Manitoba, Winnipeg, MB, Canada R3T 2N2]
- 003965 Gee, John H. PACIFIC BLUE-EYE *PSEUDOMUGIL SIGNIFER* KNER (PIMEPHIALENIIDAE) MAINTAINS BUOYANCY IN VARYING SALINITIES BY ALTERING SWIMBLADDER VOLUME. *J. Exp. Mar. Biol. Ecol.* 120(2):97-104. 1988. FR 33(4)  
 Dep. Zool., Univ. Manitoba, Winnipeg, MB, Canada R3T 2N2]
- 003966 Gehrke, P. C. INFLUENCE OF GUT MORPHOLOGY, SENSORY CUES AND HUNGER ON FEEDING BEHAVIOUR OF SPANGLED PERCH, *LEIOPOTHERAPON UNICOLOR* (GÜNTHER, 1859), (PERCOIDEI, TERAPONIDAE). *J. Fish. Biol.* 33(2):189-201. 1988. FR 33(4)  
 Inland Fish. Res. Stn., P.O. Box 182, Narrandera, NSW 2700, Australia]
- 003967 Genicot, S.; G. Foller and Ch. Gorday. TRYPSIN FROM ANTARCTIC SCORPAENIDAE (*GRANOTOTHENIA MAGELLANICA* FORSTER) AS COMPARED WITH TROUT (*Salmo gairdneri*) TRYPSIN. *Comp. Biochem. Physiol. B Comp. Biochem. Physiol.* 90(3):601-609. 1988. FR 33(4)  
 Lab. Biochim. Musculaire, Inst. Chim., B6, Sart Tilman, 4000 Liege, Belgium]

88-003968 ... MELATONIN SECRETION IN SUPERFUSED TROUT (*SALMO GAIRDNERI*); MAINTAINED UNDER DIEL ILLUMINATION OR CONTINUOUS DARKNESS. *Endocrinol.* 71(1):163-174. 1988. FR 33(4)

[Dep. Zool. & Physiol., Univ. Wyo., Laramie 82071]

88-003969 Greeley, M. S., Jr.; R. MacGregor III and K. R. Marston. OVARY OF THE GULF KILLIFISH, *FUNDULUS GRANDIS* (BAIRD AND GIRARD). SEASONAL AND SEMILUNAR SPAWNING CYCLES. *J. Fish Biol.* 33(4):419-429. 1988. FR 33(4)

[MacGregor: Environ. Sci. Div., Oak Ridge Natl. Lab., Oak Ridge, TN 37831]

88-003970 Greeley, M. S., Jr.; R. MacGregor III and K. R. Marston. PLASMA OESTROGENS AND ANDROGENS DURING THE SEASONAL SPAWNING CYCLES OF FEMALE GULF KILLIFISH, *FUNDULUS GRANDIS* (BAIRD AND GIRARD). *J. Fish Biol.* 33(3):419-429. 1988. FR 33(4)

[Environ. Sci. Div., Oak Ridge North. Lab., Oak Ridge, TN 37831]

88-003971 Grubinko, V. V.; B. V. Yakovenko and A. F. Yatsenko. STARVATION ON ARGINASE ACTIVITY AND UREA CONTENTS IN COMMON CARP (*CYPRINUS CARPIO*). *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):107-110. 1988. FR 33(4)

88-003972 Guderley, Helga and Pierre Blier. THERMAL ACCLIMATION: A CONSERVATIVE AND LABILE PROPERTIES OF SWIMMING MUSCLES OF CARP (*CYPRINUS CARPIO*). *Comp. Biochem. Physiol.* 66(5):1105-1115. 1988. In English with French summ. FR 33(4)

[Dep. Biol., Univ. Laval, Laval, PQ, Canada G1K 7P4]

88-003973 Gunawardana, Jagath. POISONING OF CYPRINIDAE FISHES IN RIVER AREAS. *Environ. Biol. Fish.* 18(1):18-21. 1988. FR 33(4)

[15A, Stanley Tilakaratna Mawatha, Nugugoda, Sri Lanka] Toxicity of *Barbus sarana*, *B. dorsalis*, and *B. filamentosus* in Sri Lanka.

88-003974 Gunn, J. M.; D. L. G. Noakes and G. F. Westlake. BEHAVIOR OF LAKE CHARR (*SALVELINUS NAMAYCUSH*) EMBRYOS TO SIMULATED WINTER CONDITIONS. *Can. J. Zool.* 65(11):2786-2792. 1987. In English with French summ. FR 33(4)

[Dep. Zool., Univ. Guelph, Guelph, ON, Canada N1G 2W1]

88-003975 Hamoir, G. BIOCHEMICAL ADAPTATION OF THE CHANNICHTHYIDAE TO THEIR LACK IN HEMOGLOBIN AND MYOGLOBIN. *Physiol. B Comp. Biochem.* 90(3):557-559. 1988. FR 33(4)

[Lab. Biochim. Musculaire, Inst. Chim., Univ. Liege, Sart Tilman, Belgium] *Notothenia magellanica*, *N. rossii*, *Champscephalus rhinocerotus*, and *Chaenocephalus aceratus*.

88-003976 Hara, Kenji; Atsushi Suzumatsu and Tadashi Ishihara. CHARACTERIZATION OF CATHEPSIN B FROM CARP ORDINARY (*CYPRINUS CARPIO*). *Gakkoishi* 54(7):1243-1252. 1988. FR 33(4)

[Fac. Fish., Nagasaki Univ., Bunkyo-Machi, Nagasaki 852, Japan]

- 03977 Hata, Masahiro; Yoshio Sato; Toshiyasu Yamaguchi; Masao Ito and Yutaka  
THE CHEMICAL AND AMINO ACID COMPOSITIONS IN TISSUES OF CULTURED AND  
AND SALMON *ONCORHYNCHUS KISUTCH.*] *Nippon Suisan Gakkaishi* 54(8):1365  
1988. In Japanese with English summ. FR 33(4)  
Dep. Fish., Fac. Agric., Tohoku Univ., Sendai 981, Japan]
- 03978 Haug, Torø; Einar Ringø and Gord Wibeche Pettorsen. TOTAL LIPID  
FATTY ACID COMPOSITION OF POLAR AND NEUTRAL LIPIDS IN DIFFERENT TISSUE  
ATLANTIC HALIBUT, *HIPPOGLOSSUS HIPPOGLOSSUS* (L.). *Sarsia* 73(2):163-168. 1988  
)  
Dep. Mar. Biol., Tromsø Mus., Univ. Tromsø, P.O. Box 2550, N-9001 Tromsø, Norw
- 03979 He, P. and C. S. Wardle. ENDURANCE AT INTERMEDIATE SWIMMING SP  
ATLANTIC MACKEREL, *SCOMBER SCOMBRUS* L., HERRING, *CLUPEA HARENGUS*  
SAITHE, *POLLACHIUS VIRENS* L. *J. Fish Biol.* 33(2):255-266. 1988. FR 33(4)  
Shandong Coll. Oceanogr., P.O. Box 90, Qingdao, China]
- 03980 Holfman, Gene S.; Douglas E. Facoy; L. Stanton Hales, Jr. and Ea  
man, Jr. REPRODUCTIVE ECOLOGY OF THE AMERICAN EEL. *Am. Fish. Soc.* 5  
-56. 1987. FR 33(4)  
ool. Dep. & Inst. Ecol., Univ. Ga., Athens 30602] *Anguilla rostrata*.
- 03981 Henderson, M. A. and T. G. Northcote. RETINAL STRUCTURE OF SYMPA  
D ALLOPATRIC POPULATIONS OF CUTTHROAT TROUT (*SALMO CLARKI CLARKI*)  
LY VARDEN CHAR (*SALVELINUS MALMA*) IN RELATION TO THEIR SPA  
TRIBUTION. *Can. J. Fish. Aquat. Sci.* 45(7):1321-1326. 1988. In English with F  
n. FR 33(4)  
Dep. Fish. & Oceans, Sci. Branch, 555 W. Hastings St., Vancouver, BC, Canada
- 03982 Henderson, P. A.; R. H. A. Holmes and R. N. Bamber. SIZE-SELEC  
RWINTERING MORTALITY IN THE SAND SMELT, *ATHERINA BOYERI* RISSO, AND  
E IN POPULATION REGULATION. *J. Fish Biol.* 33(2):221-233. 1988. FR 33(4)  
Mar. Biol. Unit, Cent. Electric. Generating Board, Fawley, Southampton SO4  
and]
- 03983 Hidalgo, F. and E. Allot. INFLUENCE OF WATER TEMPERATURE ON PRO  
QUIREMENT AND PROTEIN UTILIZATION IN JUVENILE SEA BASS, *DICENTRARCHUS*  
*LAX.* *Aquaculture* 72(1/2):115-129. 1988. FR 33(4)  
Dep. Anlm. Biol., Fac. Sci., Univ. Granada, 18071 Granada, Spain]
- 03984 Hill, Kevin. AGE IN A NEW LIGHT: GERONTOLOGICAL STUDIES OF  
SELFISH, *DASCYLLUS ALBISELLA*. *Pac. Sci.* 42(1-2):120-121. 1988. Abstract onl  
)  
Dep. Zool., Univ. Hawaii, Honolulu]
- 03985 Hirai, Hisashi; Hiroshi Kawamura; Takayuki Izumi; Takeshi Miura; M  
zeki and Kohji Yamauchi. [SPERM MOTILITY OF THE JAPANESE HUCHEN, *H  
RYI* (BREVOORT).] *Sci. Rep. Hokkaido Fish Hatchery* No. 42. p. 13-18. 1988  
nese with English summ. FR 33(4)  
Fac. Fish., Hokkaido Univ., Hokkaido, Japan]

[Dep. Zool., Univ. British Columbia, Vancouver, BC, Canada V6T 2

88-003987 Honda, Haruo. DISPLACEMENT BEHAVIOR OF *JAPANESE PARALICHTHYS OLIVACEUS* ESTIMATED BY THE DIFFERENCE OF OXYGEN CONSUMPTION RATE. *Nippon Suisan Gakkaishi* 54(7):1259. 1988. FR 33(4)

[Abiko Res. Lab., Cent. Res. Inst. Electric Power Ind., Abiko, Chiba

88-003988 Hoss, Donald E.; David S. Peters and William F. Hettler. EFFECT OF WATER TEMPERATURE ON THE SURVIVAL AND BEHAVIOR OF JUVENILE *HAEMULON FLAVOLINEATUM*. *Bull. Mar. Sci.* 39(1):134-138. 1986. FR 33(4)

[NMFS, NOAA, Southeast Fish. Cont., Beaufort, NC 28516-9722]

88-003989 Houlihan, D. F.; C. Agnisola; A. R. Lyndon; C. Gray. PROTEIN SYNTHESIS IN A FISH HEART: RESPONSES TO INCREASED OXYGEN DEMAND. *Exp. Biol.* 137:565-587. 1988. FR 33(4)

[Dep. Zool., Univ. Aberdeen, Aberdeen AB9 2TN, Scotland] *Salmo gairdneri*

88-003990 Houlihan, D. F.; S. J. Hall; C. Gray and B. S. Noble. PROTEIN TURNOVER IN ATLANTIC COD, *GADUS MORHUA*. *Can. J. Zool.* 66(6):951-964. 1988. In English with French summ. FR 33(4)

[Dep. Zool., Univ. Aberdeen, Aberdeen, Scotland]

88-003991 Houston, A. H. and J. D. Gray. RED CELL MAGNESIUM CONTENT IN ATLANTIC COD, *GADUS MORHUA*. *Can. J. Zool.* 66(4):929-933. 1988. In English with French summ. FR 33(4)

[Dep. Biol. Sci., Brock Univ., St. Catharines, ON, Canada L2S 3A1]

88-003992 Houston, A. H.; A. Murad and J. D. Gray. INDUCED OSMOTIC STRESS IN GOLDFISH, *CARASSIUS AURATUS* L., BY IMMERSION IN HYPEROSMOTIC HYDROCHLORIDE. *Can. J. Zool.* 66(3):729-736. 1988. In English with French summ. FR 33(4)

[Dep. Biol. Sci., Brock Univ., St. Catharines, ON, Canada L2S 3A1]

88-003993 Hughes, G. M. and N. K. Al-Kadhomy. CHANGES IN RESPIRATORY SYSTEMS DURING THE DEVELOPMENT OF FISHES. *J. Exp. Biol.* 68(3):489-498. 1988. FR 33(4)

[Res. Unit Comp. Anim. Respiration, Univ. Bristol, Woodland Road, Bristol, England]

88-003994 Hughes, G. M. and C. Albers. USE OF FILTRATION METHODS TO DETERMINE THE CONDITION OF FISH RED BLOOD CELLS. *J. Exp. Biol.* 68(3):489-498. 1988. FR 33(4)

[Res. Unit Comp. Anim. Respir., Bristol Univ., Bristol BS8 1UD, England] *carpio*.

- 003995 Hwang, P. P. and S. M. Wu. SALINITY EFFECTS ON CYTOMETRIC PARAMETERS OF THE KIDNEY IN THE EURYHALINE TELEOST *OREOCHROMIS MOONII* PETERS. *J. Fish Biol.* 33(1):89-95. 1988. FR 33(4)  
Inst. Zool., Acad. Sinica, Nankang, Taipei, Taiwan 11529]
- 003996 Iancu, Carol A. and Stephen B. Brandt. BIOENERGETIC EVALUATION OF FEEDING STRATEGIES OF ADULT ALEWIFE IN SE LAKE ONTARIO. *Int. Assoc. Great Lakes Res. Conf.* 30:A-30. 1987. Abstract only. FR 33(4)  
SUNY-ESF, Illick Hall, Syracuse, NY 13210] *Alosa pseudoharengus*.
- 003997 Ichikawa, Tomoyuki; Isao Ishida; Shunji Ohsako and Takeo Deguchi. IN VIVO HYPERBRIDIZATION DEMONSTRATING COEXPRESSION OF UROTENSINS I, II- $\alpha$ , AND II- $\beta$  IN THE CAUDAL NEUROSECRETORY NEURONS OF THE CARP, *CYPRINUS CARPIO*. *J. Endocrinol.* 71(3):493-501. 1988. FR 33(4)  
Dep. Anat. & Embryol., Tokyo Metropolitan Inst. Neurosci., Fuchu, Tokyo 183, Japan]
- 003998 Ishimatsu, Atsushi; George K. Iwama and Norbert Heisler. IN VIVO ANALYSIS OF THE PARTITIONING OF CARDIAC OUTPUT BETWEEN SYSTEMIC AND CENTRAL VEINS IN RAINBOW TROUT: A NEW APPROACH USING CHRONIC CANNULATED CATHETERS IN THE BRANCHIAL VEIN. *J. Exp. Biol.* 137:75-88. 1988. FR 33(4)  
Nomo Fish. Stn., Nagasaki Univ., Nomozaki, Nagasaki 851-05, Japan] *Salmo gairdneri*.
- 003999 Ishloka, Hiroko; Yoshimi Hatakeyama and Seiji Sakaguchi. THE HEAVY METAL CONTENT OF THE RED SEA BREEM *PAGRUS MAJOR*. *Nippon Suisan Gakkaishi* 54(6):943-948. In English. FR 33(4)  
Nansei Regional Fish. Lab., Ohno, Saeki, Hiroshima 739-04, Japan]
- 004000 Itoh, Hiromichi; Kunimasa Suzuki and Hiroshi Kawauchi. THE COMPLETE NUCLEOTIDE SEQUENCES OF  $\beta$ -SUBUNITS OF TWO DISTINCT CHUM SALMON GTHs. *J. Endocrinol.* 71(3):438-451. 1988. FR 33(4)  
Lab. Mol. Endocrinol., School Fish. Sci., Kitasato Univ., Sanriku, Iwate 022-01, Japan] *Oncorhynchus keta*.
- 004001 Ivankov, V. N. [METHOD OF DETERMINING FATNESS IN FISHES.] *Morskoy Biologicheskii Zhurnal* 1988(1):59-60. 1988. In Russian with English summ. FR 33(4)  
Dep. Hydrobiol. & Ichthyol., Far-East. Univ., Vladivostok 690000, USSR]
- 004002 Iwama, G. K.; R. G. Boutilier; T. A. Heming; D. J. Randall and M. M. May. THE EFFECTS OF ALTERING GILL WATER FLOW ON GAS TRANSFER IN RAINBOW TROUT. *J. Zool.* 65(10):2466-2470. 1987. In English with French summ. FR 33(4)  
Biol. Dep., Dalhousie Univ., Halifax, NS, Canada B3H 4J1] *Salmo gairdneri*.
- 004003 Johnsen, P. B.; H. Zhou and M. A. Adams. OLFACTORY SENSITIVITY OF THE BIVOROUS GRASS CARP, *CTENOPHARYNGODON IDELLA*, TO AMINO ACIDS. *J. Fish Biol.* 33(1):127-134. 1988. FR 33(4)  
U.S. Dep. Agric., Agric. Res. Serv., South. Regional Res. Cent., P.O. Box 1968, Mississippi State, LA 70179]
- 004004 Johnson, Scott W. and Jonathan Heifetz. OSMOREGULATORY ABILITY OF THE CHUM SALMON (*ONCORHYNCHUS KISUTCH*) AND DOLLY VARDEN CHAR (*SALVE*

88-004005 Johnston, Ian A. and John D. Altringham. MUSCLE CO  
FISHES: EXPERIMENTS WITH DEMEMBRATED MUSCLE FIBRES. C  
B Comp. Biochem. 90(3):547-555. 1988. FR 33(4)

[Gatty Mar. Lab., Dep. Biol. & Preclinical Med., Univ. St. Andr  
KY16 8LB, Scotland] *Notothenia neglecta*, *N. rossii*, *Tren  
Chaenocephalus aceratus*.

88-004006 Johnston, L. R. and T. Wigham. THE INTRACELLU  
PROLACTIN CELL FUNCTION IN THE RAINBOW TROUT. *SALMO G  
Endocrinol. 71(2):284-291. 1988. FR 33(4)*

[Wigham: Dep. Appl. Biol., UWIST, P.O. Box 13, Cardiff CF1 3XF

88-004007 Jordahl, David M. and Arnold Benson. EFFECT OF LOW  
BROOK TROUT EMBRYOS AND YOLK-SAC LARVAE IN WEST VIRG  
Am. Fish. Soc. 116(6):807-816. 1987. FR 33(4)

[Dep. Nat. Resour., Tidewater Admin., Tawes State Office Bldg,  
*Salvelinus fontinalis*.

88-004008 Jurss, K.: R. Bastrop and Th. Vokler. EFFECTS OF SA  
DEFICIENCY IN RAINBOW TROUT (*SALMO GAIRDNERI* RICHARD  
Physiol. B Comp. Biochem. 90(4):891-895. 1988. FR 33(4)

[Wilhelm-Pieck-Univ., Sekt. Biol., Wissenschaftsbereich Tierphys  
DDR 2500 Rostock 1, East Germany]

88-004009 Kanamori, Akira and Yoshitaka Nagahama. DEVELOPME  
PROPERTIES OF GONADOTROPIN RECEPTORS IN THE OVARIAN  
SALMON (*ONCORHYNCHUS RHODURUS*) DURING OOGENESIS. C  
72(1):25-38. 1988. FR 33(4)

[Lab. Reprod. Biol., Natl. Inst. Basic Biol., Okazaki 444, Japan]

88-004010 Kanamori, Akira; Shinji Adachi and Yoshitaka Naga  
CHANGES IN STEROIDOGENIC RESPONSES OF OVARIAN FOLLICL  
(*ONCORHYNCHUS RHODURUS*) TO CHUM SALMON GONADOTROP  
Gen. Comp. Endocrinol. 72(1):13-24. 1988. FR 33(4)

[Lab. Reprod. Biol., Natl. Inst. Basic Biol., Okazaki 444, Japan]

88-004011 Kanamori, Akira and Yoshitaka Nagahama. INVOLVE  
ADENOSINE MONOPHOSPHATE IN THE CONTROL OF FOLLICULAR  
AMAGO SALMON (*ONCORHYNCHUS RHODURUS*). Gen. Comp. .  
1988. FR 33(4)

[Lab. Reprod. Biol., Natl. Inst. Basic Biol., Okazaki 444, Japan]

88-004012 Karasov, William H. and Jared M. Diamond. INTERPLAY  
AND ECOLOGY IN DIGESTION. *BioScience* 38(9):602-611. 1988. FR  
[Dep. Wildl. Ecol., Univ. Wis., Madison 53706]

88-004013 Kaur, Kamaldeep; H. S. Toor and Surinder Vir  
SURVIVAL OF *CYPRINUS CARPIO* LINN. EGGS AT DIFFERENT T

- 004014 Kawahara, Itsuro and Riichi Kusuda. [PROPERTIES OF LYSOZYME ACTIVE CULTURED EEL.] *Nippon Suisan Gakkaishi* 54(6):965-968. 1988. In Japanese with English summary. FR 33(4)  
Fish Dis. Lab., Fac. Agric., Kochi Univ., Nankoku, Kochi 783, Japan] *Anguilla japonica*.
- 004015 Kawamura, Gunzo; Chon Darusu and Tooru Yoneimori. GROUP EFFECTS ON SWIMMING SPEED OF FISH. *Nippon Suisan Gakkaishi* 54(6):1067. 1988. In English. FR 33(4)  
Fac. Fish., Kagoshima Univ., Shimoarata, Kagoshima 890, Japan] *Mugil cephalus latipes*, and *Tilapia nilotica*.
- 004016 Kednay, G. J.; V. Boule and G. J. FitzGerald. THE REPRODUCTIVE ECOLOGY OF THREESPINE STICKLEBACKS BREEDING IN FRESH AND BRACKISH WATER. *Am. Zool.* 27:151-161. 1987. FR 33(4)  
Dep. Biol., Univ. Laval, Ste. Foy, PQ, Canada G1K 7P4] *Gasterosteus aculeatus*.
- 004017 Kelley, Kevin M.; Richard S. Nishioka and Howard A. Bern. NOVEL EFFECTS OF AN ISOACTIVATING GOACTIVE INTESTINAL POLYPEPTIDE AND PEPTIDE HISTIDINE ISOLEUCINE ON THE INHIBITION OF *IN VITRO* SECRETION OF PROLACTIN IN THE TILAPIA, *OREOCHROMIS MOSSAMBICUS*. *Gen. Comp. Endocrinol.* 72(1):97-106. 1988. FR 33(4)  
Dep. Zool & Cancer Res. Lab., Univ. Calif., Berkeley 94720]
- 004018 Kent, Jeffrey; Michael Koban and C. Ladd Prossor. COLD-ACCLIMATION INDUCED PROTEIN HYPERTROPHY IN CHANNEL CATFISH AND GREEN SUNFISH. *J. Exp. Biol.* 158(2):185-198. 1988. FR 33(4)  
Dep. Plant Biol., Univ. Ill., Urbana 61801] *Ictalurus punctatus* and *Leponis cyanellus*.
- 004019 King, Joan C.; Stacia A. Sower and Edythe L. P. Anthony. NEUROPEPTIDES IMMUNOREACTIVE WITH ANTISERUM TO LAMPREY GONADOTROPIN-RELEASING HORMONE IN THE BRAIN OF *PETROMYZON MARINUS*. *Cell Tissue Res.* 253(1):1-8. 1988. FR 33(4)  
Dep. Anat. & Cellular Biol., Tufts Univ. School Med., 136 Harrison Ave., Boston 02111]
- 004020 Kishida, Mitsuyo and Tetsuya Hirano. DEVELOPMENT OF RADIOIMMUNOASSAY FOR EEL GROWTH HORMONE. *Nippon Suisan Gakkaishi* 54(8):1321-1327. 1988. In English with Japanese summary. FR 33(4)  
Ocean Res. Inst., Univ. Tokyo, Nakano, Tokyo 164, Japan] *Anguilla anguilla*.
- 004021 Kohno, Hiroshi; Shiro Hara; Marietta Duray and Amalia Gallego. TRANSFORMATION OF ENDOGENOUS TO EXOGENOUS NUTRITION SOURCES IN LARVAL RABBITFISH, *ANUS CUTTATUS*. *Nippon Suisan Gakkaishi* 54(7):1083-1091. 1988. FR 33(4)  
Aquacult. Dep., SEAFDEC, P.O. Box 256, Iloilo City, Philippines]
- 004022 Korcock, D. E.; A. H. Houston and J. D. Gray. EFFECTS OF SAMPLING CONDITIONS ON SELECTED BLOOD VARIABLES OF RAINBOW TROUT, *SALMO GAIRDNERI*. *J. Fish Biol.* 33(2):319-330. 1988. FR 33(4)  
Houston: Dep. Biol. Sci., Brock Univ., St. Catharines, ON, Canada L2S 3A1]



EFFECT OF THE NUMBERS AND LEVELS OF PITUITARY INJECTIONS ON STRIPPING. Pr. Vodnany No. 16. p. 53-61. 1987. In English with Czech [Vyzkumny ustav rybarsky & hydrobiol., 389 25 Vodnany, Czechoslovakia]

88-004024 Kralom, M. M. and E. Pattee. SALINITY TOLERANCE OF *BARBUS CALLENSIS VALENCIENNES*, 1842 (PISCES, CYPRINIDAE) AND ITS SIGNIFICANCE. *Hydrobiologia* 166(3):263-267. 1988. FR 33(4)  
[Lab. Ecol. Anim., Fac. Sci. Tunis, Campus Universitaire, 1060 Tunis]

88-004025 Kramer, B. and B. Otto. FEMALE DISCHARGES ARE NOT A SPONTANEOUS PREFERENCE IN THE ELECTRIC FISH, *EIGENMANNIA TETRALEPTELEOSTEI*. *Behav. Ecol. Sociobiol.* 23(1):55-60. 1988. FR 33(4)  
[Zool. Inst. Univ., Universitätsstr. 31, D-8400 Regensburg, West Germany]

88-004026 Kreider, Margaret S.; Andrew Winokur; Scott Manaker; Allan P. Fishman. CHARACTERIZATION OF THYROTROPIN-RELEASING HORMONE IN THE CENTRAL NERVOUS SYSTEM OF AFRICAN LUNGFISH. *Gen. Comp. Endocrinol.* 72(1):122. 1988. FR 33(4)  
[Dep. Psychiatry, Univ. Pa., Philadelphia 19104] *Protopterus annectans*

88-004027 Lafeber, F. P. J. G. and S. F. Perry. EXPERIMENTAL STRESS INDUCES HYPOCALCAEMIA AND INHIBITS BRANCHIAL ION TRANSPORT IN FRESHWATER TROUT. *Gen. Comp. Endocrinol.* 72(1):136-143. 1988. FR 33(4)  
[Dep. Anim. Physiol., Univ. Nijmegen, Toernooiveld 25, 6525 ED Nijmegen, The Netherlands] *Salmo gairdneri*

88-004028 Laidley, C. W. and J. F. Leatherland. COHORT SAMPLING AND STOCKING-DENSITY EFFECTS ON PLASMA CORTISOL, THYROID HORMONE AND ION LEVELS IN RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON. *Can. J. Zool.* 66(1):73-88. 1988. FR 33(4)  
[Dep. Zool., Group Advancement Fish Studies, Univ. Guelph, Guelph, Ontario, Canada N1G 2W1]

88-004029 Le Guellec, Katherine; Kenneth Lawless; Yves Valot; Martin Tenniswood. VITELLOGENIN GENE EXPRESSION IN MALE RAINBOW TROUT (*GAIRDNERI*). *Gen. Comp. Endocrinol.* 71(3):359-371. 1988. FR 33(4)  
[Lab. Biol. Mol., L'Univ. Rennes 1, Campus Beaulieu, Rennes Cedex, France]

88-004030 Leatherland, John F. and R. A. Sonstegard. COMPARATIVE EGG SURVIVAL IN TWO STOCKS OF GOITRED COHO SALMON (*ONCHORHYNCHUS WALBAUMI*) FROM LAKE ERIE. *Can. J. Zool.* 65(11):2780-2785. 1987. In summary. FR 33(4)  
[Dep. Zool., Univ. Guelph, Guelph, ON, Canada N1G 2W1]

88-004031 Levanduski, Michael Joseph. *IN VITRO* FERTILIZATION OF (*SALMO GAIRDNERI*) OOCYTES: THE EFFECT OF IMMOTILE SPERM AND MOTILE SPERM. *M.S. Thesis, Univ. Idaho* 31p. 1987. FR 33(4)

004032 Levels, Paul J. and J. Manuel. DENSITY-DEPENDENT VARIABILITY OF THE FREQUENCY OF EMBRYONIC DIAPAUSES OF THE ANNUAL FISH *NOTHOBRANCHIA RATHAUSAE*, REGULATED BY LIGHT:DARK CYCLE AND TEMPERATURE. *Environmental Biology of Fishes* 22(3):211-223. 1988. FR 33(4)

Dep. Zool., Catholic Univ., Toernooiveld, 6525 ED Nijmegen, Netherlands]

004033 Lipke, David William. CHARACTERIZATION OF ELEMENTS OF THE KALLIDIN SYSTEM IN RAINBOW TROUT (*SALMO GAIIRDNERI*). *Ph.D. dissertation, Univ. of California*. 192p. 1988. From Diss. Abstr. Int. B Sci. Eng. 49(2):325. 1988. FR 33(4)

004034 Lowery, Mary Sue. THE EFFECTS OF STARVATION ON PROTEIN SYNTHESIS AND NUCLEIC ACID METABOLISM IN THE MUSCLE OF THE BARRED SAND LANCELET (*AMALABRAX NEBULIFER*). *Ph.D. dissertation, Univ. Calif. (San Diego)* 197p. 1987. From Diss. Abstr. Int. B Sci. Eng. 49(2):289-290. 1988. FR 33(4)

004035 Lutnesky, Marvin. SEXUAL DIMORPHISM, DICHROMATISM, AND HETEROGAMETOUS HERMAPHRODITISM IN THE POMACANTHID ANGELFISH, *CENTRARCHUS BICOLOR*. *Pac. Sci.* 42(1-2):126. 1988. Abstract only. FR 33(4)

Dep. Zool., Univ. Hawaii, Honolulu]

004036 Macdonald, J. A.; J. C. Montgomery and R. M. G. Wells. THE PHYSIOLOGY OF TROPICAL SOUND FISHES: CURRENT NEW ZEALAND RESEARCH. *Comp. Biochem. Physiol.* 90(3):567-578. 1988. FR 33(4)

Dep. Zool., Univ. Auckland, Auckland, New Zealand]

004037 Macdonald, J. Stevenson; Colin D. Levings; Carey D. McAllister; Ulf Eriksson and J. R. McBride. A FIELD EXPERIMENT TO TEST THE IMPORTANCE OF REFUGES FOR CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) SURVIVAL UNDER SHORT-TERM RESULTS. *Can. J. Fish. Aquat. Sci.* 45(8):1366-1377. 1988. In English with summary. FR 33(4)

Dep. Fish. & Oceans, Biol. Sci. Branch, 4160 Marine Dr., West Vancouver, BC, Canada V8V 2T6]

004038 Machado, C. R.; M. A. R. Garofalo; J. E. S. Rosellno; I. C. Kettelhut and M. Migliorini. EFFECTS OF STARVATION, REFEEDING, AND INSULIN ON ENERGY-BALANCE AND METABOLIC PROCESSES IN CATFISH (*RHAMDIA HILARII*) ADAPTED TO A CARBOHYDRATE-RICH DIET. *Gen. Comp. Endocrinol.* 71(3):429-437. 1988. FR 33(4)

Dep. Morphol. & Physiol., UNESP School Vet. Med., Jaboticabal, SP, CP 14870 Brazil]

004039 MacLachy, Deborah L. and J. G. Eales. SHORT-TERM TREATMENT WITH TESTOSTERONE INCREASES PLASMA 3,5,3'-TRI-IODO-L-THYRONINE AND HEPATIC GLUCOCORTICOID LEVELS IN ARCTIC CHARR, *SALVELINUS ALPINUS*. *Comp. Endocrinol.* 71(1):10-16. 1988. FR 33(4)

Dep. Zool., Univ. Manitoba, Winnipeg, MB, Canada R3T 2N2]

004040 Maresca, B.; E. Patriarca; C. Goldenberg and M. Sacco. HEAT SHOCK PROTEIN EXPRESSION AND ADAPTATION IN ANTARCTIC FISHES: A MOLECULAR APPROACH. *Comp. Biochem. Physiol.* 90(3):623-629. 1988. FR 33(4)

Int. Inst. Genet. & Biophysics, C.N.R., Via Marconi, 10, 80125 Naples, Italy. Species: *Notothenia bernacchi*, *Notothenia rossii*, and *Chionodraco kathleene*.

SECRETION BY THE BLOOD-TESTIS BARRIER OF BROOK  
66(7):1603-1609. 1988. In English with French summ. FR 33(4)

[Dep. Biol., St. Francis Xavier Univ., Antigonish, NS, Canada  
*fontinalis*.

88-004043 Martin, Linda K. and Gregor M. Cailliet. ASPECT OF THE  
THE BAT RAY, *MYLIOBATIS CALIFORNICA*, IN CENTRAL  
1988(3):754-762. 1988. FR 33(4)

[Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93940]

88-004044 Martinez S., Gustavo A. and Roger E. Murillo S. [LARI  
*CICHLASOMA NIGROFASCIATUM* (GUNTHER), 1868 (PISCES-  
LABORATORY.] *Rev. Biol. Trop.* 35(1):113-119. 1987. In Spanish  
33(4)

[Fund. Neotrop., Apdo. 236-1002, San Jose, Costa Rica]

88-004045 Marttila, O. Niina T. and Mikko Nikinmaa. BINDING  
ANTAGONISTS 3H-DHA AND 3H-CGP 12177 TO INTACT RAINBOW  
*GAIRDNERI*) AND CARP (*CYPRINUS CARPIO*) RED BLOOD CELLS.  
70(3):429-435. 1988. FR 33(4)

[Div. Physiol., Dep. Zool., Univ. Helsinki, Arkadiankatu 7, SF-0

88-004046 Maurice, Keith R.; Robert W. Blye; Paul L. Hart  
INCREASED SPAWNING BY AMERICAN SHAD COINCIDENT WITH  
OXYGEN IN THE TIDAL DELAWARE RIVER. *Am. Fish. Soc. Symp.* 1:  
[RMC-Environ. Serv., Fricks Lock Rd., Rural Delivery 1, Pot

*sapidissima*.

88-004047 McCleave, James D.; Robert C. Kleckner and  
REPRODUCTIVE SYMPATRY OF AMERICAN AND EUROPEAN EELS  
MIGRATION AND TAXONOMY. *Am. Fish. Soc. Symp.* 1:286-297. 1988

[Dep. Zool. & Migratory Fish Res. Inst., Univ. Maine, Orono 044  
*A. rostrata*.

88-004048 McCormick, Stephen D. and Richard L. Sauer  
PHYSIOLOGICAL ADAPTATIONS FOR MARINE LIFE OF SALMONID  
GROWTH, AND METABOLISM. *Am. Fish. Soc. Symp.* 1:211-239. 1988

[Dep. Zool., Univ. Calif., Berkeley 94720] *Salmo salar*, *S. gairdneri*  
spp.

88-004049 McEnroe, Maryann and Joseph J. Cech, Jr. OSMOTIC  
STURGEON: LIFE HISTORY ASPECTS. *Am. Fish. Soc. Symp.* 1:191-  
[Dep. Wildl. & Fish. Biol., Univ. Calif., Davis 95616] *Acipenser*

88-004050 Middaugh, Douglas P.; Michael J. Hemmer and Dan  
ECOLOGY OF THE PACIFIC SURF SMELT, *HYPOMESUS PRETIOSUS*  
*Pac. Sci.* 41(1-4):44-53. 1987. FR 33(4)

[U.S. Environ. Protection Agency, Gulf Breeze Environ. Res. Ctr.,  
Breeze, FL 32561]

- 04051 Middlebrooks, B. L.; Nancy J. Brown-Peterson; Paul M. Toom and William J. Glas. EVALUATION OF SPECIFIC BINDING AFFINITY AND BIOCHEMICAL PROPERTIES OF CARP EYE-LENS REAGENTS FROM SEVEN TELEOST SPECIES. *Comp. Biochem. Physiol.* 90(4):721-729. 1988. FR 33(4)
- 04052 Miyajima, K.; A. Yasuda; P. Swanson; H. Kawauchi; H. Cook; T. Kaneko; R. Peter; R. Suzuki; S. Hasegawa and T. Hirano. ISOLATION AND CHARACTERIZATION OF CARP PROLACTIN. *Gen. Comp. Endocrinol.* 70(3):407-417. 1988. FR 33(4)
- 04053 Moon, T. W.; P. J. Walsh; S. F. Perry and T. P. Mommsen. EFFECTS OF EXogenous BETA-ADRENOCEPTOR BLOCKADE ON HEPATIC CARBOHYDRATE METABOLISM IN BROOK TROUT. *J. Exp. Zool.* 248(1):88-93. 1988. FR 33(4)
- 04054 Mor, Anat and Ramy R. Avtalion. EVIDENCE OF TRANSFER OF IMMUNITY FROM MOTHER TO EGGS IN TILAPIAS. *Bamldgoh* 40(1):22-28. 1988. FR 33(4)
- 04055 Morin, Pierre-Philippe; Julian J. Dodson and Francois Y. Doré. HEART CONDITIONING TO L-CYSTEINE AND OTHER CHEMICAL STIMULI IN YOUNG ATLANTIC SALMON (*SALMO SALAR*). *Can. J. Zool.* 65(11):2710-2714. 1987. In English with French summary. FR 33(4)
- 04056 Morozov, N. P.; A. P. Solyutin; M. S. Dobrusln and S. A. Petukhina. PROXIMATE COMPOSITION OF LIPID AND FAT-FREE FRACTIONS OF THE TISSUES OF THE SCAD, *TRACHURUS TRACHURUS*, FROM THE NORTHEASTERN ATLANTIC OCEAN. *Hyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):149-152. 1987. FR 33(4)
- 04057 Moser, Mary Lynn. EFFECTS OF SALINITY FLUCTUATION ON JUVENILE ATLANTIC QUARINE FISH. *Ph.D. dissertation, N.C. State Univ.* 156p. 1987. From Diss. Abstr. Int. Sci. Eng. 49(2):298-299. 1988. FR 33(4)
- 04058 Mosillo, Olivia I. W. and J. R. Mainoya. REPRODUCTIVE BIOLOGY OF THE WEST AFRICAN LUNGFISH (*PROTOPTERUS AETHIOPICUS*) IN MWANZA GULF, TANZANIA. *Afr. J. Ecol.* 26(2):149-162. 1988. In English with French summ. FR 33(4)
- 04059 Mukhopadhyay, P. K.; B. Venkatesh and P. Das. GROWTH AND BIOCHEMICAL CHANGES IN *CLARIAS BATRACHUS* DUE TO METHYL TESTOSTERONE. *Indian J. Fish.* 33(3):262-269. 1986. FR 33(4)

## PHYSIOLOGY (CONTINUED)

88-004060 Munekiyo, Masahiro and Akiko Kuwahara. [MATURE RIBBON FISH IN THE WESTERN WAKASA BAY.] *Nippon Suisan Gakkaishi* 44(12):1988. In Japanese with English summ. FR 33(4)

[Kyoto Inst. Oceanic & Fish. Sci., Miyazu, Kyoto 626, Japan]

88-004061 Murray, C. B. and T. D. Beacham. THE DEVELOPMENT OF EMBRYOS AND ALEVIN UNDER VARYING TEMPERATURE REGIMENS. *Can. J. Fish. Aquat. Sci.* 45(11):2672-2681. 1987. In English with French summ. FR 33(4)

[Dep. Fish. & Oceans, Pac. Biol. Stn., Nanaimo, BC, Canada V9R 5N6]

88-004062 Murray, C. B. and J. D. McPhail. EFFECT OF INCUBATION TEMPERATURE ON THE DEVELOPMENT OF FIVE SPECIES OF PACIFIC SALMON (*ONCHORHYNCHUS TSHAWYTSCHA*) AND CHUM SALMON (*ONCHORHYNCHUS KETA*) AND ALEVINS. *Can. J. Zool.* 66(1):266-273. 1988. In English with French summ.

[Dep. Fish. & Oceans, Pac. Biol. Stn., Nanaimo, BC, Canada V9R 5N6]  
*O. keta*, *O. kisutch*, *O. nerka*, and *O. tshawytscha* in Canada.

88-004063 Nagler, James J.; Sylvia M. Ruby; David R. Idler and J. R. Idler. EFFECT OF PHOSPHOPROTEIN PHOSPHORUS AND CALCIUM LEVELS AS REPRESENTED BY VITELLOGENIN IN HIGHLY VITELLOGENIC MATURE FEMALE RAINBOW TROUT (*Salmo gairdneri*) INJECTED IMMATURE RAINBOW TROUT (*Salmo gairdneri*). *Can. J. Fish. Aquat. Sci.* 44(12):2425. 1987. In English with French summ. FR 33(4)

[Idler: Mar. Sci. Res. Lab., Memorial Univ. Newfoundland, St. John's, NL A1B 4X9]

88-004064 Nakagawa, Takayuki; Shugo Watabe and Kanehisa Hashimoto. ANALYSIS OF THREE MAJOR COMPONENTS IN FISH SARCOPLASMIC PROTEIN. *Gakkaishi* 54(6):999-1004. 1988. In English. FR 33(4)

[Tokyo Univ. Fish., Konan, Minato, Tokyo 108, Japan] *Pagrus major* and *Scomber japonicus*.

88-004065 Nakagawa, Takayuki; Shugo Watabe and Kanehisa Hashimoto. ELECTROPHORETIC ANALYSIS OF SARCOPLASMIC PROTEINS FROM RAINBOW TROUT (*Salmo gairdneri*) POLYACRYLAMIDE GELS. *Nippon Suisan Gakkaishi* 54(6):993-998. 1988. In English. FR 33(4)

[Tokyo Univ. Fish., Konan, Minato, Tokyo 108, Japan]

88-004066 Nakanishi, Yuki. C-REACTIVE PROTEIN AND HOST DEFENSE RESPONSE IN RAINBOW TROUT. *Jpn. J. Vet. Res.* 36(2):164. 1988. Abstract only

[Dep. Epizootiol., Fac. Vet. Med., Hokkaido Univ., Sapporo 060]

88-004067 Nakano, Hiroshi; Soichiro Shirahata; Kazuo Yabe; Yoko Ito. CHANGES IN GUANINE AND HYPOXANTHINE CONTENTS OF RAINBOW TROUT (*Salmo gairdneri*) DURING DEVELOPMENT OF CHUM SALMON *ONCHORHYNCHUS KETA*. *Nippon Suisan Gakkaishi* 54(7):1253. 1988. FR 33(4)

[Tokai Regional Fish. Res. Lab., Yokohama, Kanagawa 227, Japan]

- 004069 Ogata, H. and T. Murai. CHANGES IN AMMONIA AND AMINO ACID LEVELS IN ERYTHROCYTES AND PLASMA OF CARP, *CYPRINUS CARPIO*, DURING PASSAGE THROUGH THE GILLS. *J. Fish. Biol.* 33(3):471-479. 1988. FR 33(4)  
[Nat. Res. Inst. Aquacult: Inland Stn., Fish Nutr. Div., Hiruta, Tamaki, Mie 516, Japan]
- 004070 Orciari, R. D.; D. Mysling and G. Leonard. TIME OF MIGRATION AND GROWTH OF TWO INTRODUCED STRAINS OF ATLANTIC SALMON IN A SOUTHERN NEW ENGLAND STREAM. *Am. Fish. Soc. Symp.* 1:560. 1987. Abstract only. FR 33(4)  
[Dep. Environ. Prot., Bur. Fish., West. Dist. Headquarters, Harwinton, CT 06791]
- 004071 Oshima, Noriko; Mihoko Suzuki; Nanako Yamaji and Ryozo Fujii. PIGMENTATION IS TRIGGERED BY AN INCREASE IN FREE CALCIUM IONS WITHIN MELANOPHORES. *Comp. Biochem. Physiol. A Comp. Physiol.* 91(1):27-32. 1988. FR 33(4)  
[Dep. Biol., Fac. Sci., Toho Univ., Miyama, Funabashi, Chiba 274, Japan] *Xiphophorus birchmanni*.
- 004072 Ott, Janet F. and Christopher Platt. POSTURAL CHANGES OCCURRING DURING THE MONTH OF VESTIBULAR COMPENSATION IN GOLDFISH. *J. Exp. Biol.* 138:351-359. FR 33(4)  
[Lab I, Evergreen State Coll., Olympia, WA 98505] *Carassius auratus*.
- 004073 Ott, Janet F. and Christopher Platt. EARLY ABRUPT RECOVERY FROM A PROLONGED PERIOD OF VESTIBULAR COMPENSATION IN GOLDFISH. *J. Exp. Biol.* 138:345-357. 1988. FR 33(4)  
[Lab I, Evergreen State Coll., Olympia, WA 98505] *Carassius auratus*.
- 004074 Parkinson, Eric A. and Kanji Tsumura. GROWTH AND SURVIVAL OF HORMONALLY TREATED COHO (*ONCORHYNCHUS KISUTCH*) AND KOKANEE SALMON (*O. NERKA*) IN A FRESHWATER ENVIRONMENT. *Can. J. Fish. Aquat. Sci.* 45(8):1490-1494. 1988. In *Environmental Impacts of Aquaculture*. Ed. by J. H. French summ. FR 33(4)  
[Minist. Environ. & Parks, Recreational Fish. Branch, 2204 Main Mall, Univ. of British Columbia, Vancouver, BC, Canada V6T 1W5]
- 004075 Pasmanik, Metsada; Barney A. Schlinger and Gloria V. Callard. *IN VITRO* AND *IN VIVO* REGULATION OF AROMATASE AND 5 $\alpha$ -REDUCTASE IN GOLDFISH BRAIN AND PITUITARY. *Gen. Comp. Endocrinol.* 71(1):175-182. 1988. FR 33(4)  
[Callard: Dep. Biol., Boston Univ., 2 Cummington St., Boston, MA 02215] *Carassius auratus*.
- 004076 Pasmanik, Metsada. AROMATIZATION AND 5 $\alpha$ -REDUCTION IN GOLDFISH (*CARASSIUS AURATUS*) BRAIN AND PITUITARY: ROLE IN MEDIATING ANDROGEN EFFECTS. *Ph.D. dissertation, Boston Univ.* 1986. FR 33(4)
- 004077 Paul, A. J.; J. M. Paul and R. L. Smith. RESPIRATORY REQUIREMENTS OF THE COD *GADUS MACROCEPHALUS* TILESIIUS RELATIVE TO OXYGEN CONSUMPTION, FOOD INTAKE, AND TEMPERATURE. *J. Exp. Mar. Biol. Ecol.* 122(1):83-89. 1987. FR 33(4)

*Bior. Fishes* 22(4):261-271. 1988. FR 33(4)  
[Int. Cent. Living Aquat. Resour. Manage., MC P.O. Box 150  
Philippines]

88-004079 Penaz, Milan; Jana Parova; Evzen Wohlgenuth; Oldřich  
MORTALITY, GROWTH AND BODY COMPOSITION OF ELVERS, *A. L.*  
DIFFERENT DIETS. *Folia Zool.* 37(1): 67-81. 1988. In English with  
[Inst. Syst. & Ecol. Biol., Czech. Acad. Sci., Brno, Czechoslovakia]

88-004080 Perez Martinez, Armando; Roberto Duarte Escobar;  
Gajdusek. REPRODUCTIVE BIOLOGY OF *CICHLASOMA TETRACANTHUM*  
*Ustavu Cesk. Akad. Ved Brno* 22(2):36p. 1988. In English with Russian  
[Inst. Ecol. & Syst., Calle 19, No. 17, A09 Rpto, Atahue, Playa,

88-004081 Phleger, Charles F. THE IMPORTANCE OF SKULL  
RESERVE DURING STARVATION IN THE OCEAN SURGEON, *A. L.*  
*Comp. Biochem. Physiol. A Comp. Physiol.* 91(1):97-100. 1988. FR  
[Dep. Nat. Sci., San Diego State Univ., San Diego, CA 92182]

88-004082 Plisetskaya, Erika M.; Penny Swanson; Melinda G.  
Dickhoff. INSULIN IN COHO SALMON (*ONCORHYNCHUS KISUTCHIK*)  
SMOLT TRANSFORMATION. *Aquaculture* 72(1/2):151-164. 1988. FR  
[Dep. Zool., NJ-15, Univ. Wash., Seattle 98195]

88-004083 Prokes, Miroslav and Marta Horakova. SEASONAL GROWTH  
OF ROACH (*RUTILUS RUTILUS*) IN THE MUSOV RESERVOIR. *Folia Zool.*  
English with Russian summ. FR 33(4)  
[Inst. Syst. & Ecol. Biol., Czech. Acad. Sci., Brno, Czechoslovakia]

88-004084 Rahamimoff, Rami; Susan A. DeRiemer; Bert Sakmann;  
Yakir. ION CHANNELS IN SYNAPTIC VESICLES FROM *TORPEDO*  
*Natl. Acad. Sci. USA* 85(14):5310-5314. 1988. FR 33(4)  
[Dep. Physiol., Hebrew Univ.-Hadassah Med. School, Jerusalem,  
*marmorata*]

88-004085 Randall, C. J.; N. R. Bromage and J. Duston. THE EFFECTS OF  
PERIODS OF CONTINUOUS LIGHT ON REPRODUCTION IN THE  
*CAIRDNERI*). *J. Interdispl. Cycle Res.* 19(3):202-203. 1988. Abstract  
[Fish Cult., Aston Univ., Aston Triangle, Birmingham B4 7ET,

88-004086 Reinboth, Rudolf. PHYSIOLOGICAL PROBLEMS OF THERMOTOLERANCE  
*Environ. Biol. Fishes* 22(4):249-259. 1988. FR 33(4)  
[Inst. Zool., Univ. Mainz, Saarstr. 21, D-6500 Mainz, West Germany]

88-004087 Reshkin, Stephan J. INTESTINAL BASOLATERAL  
TRANSPORT OF AMINO ACIDS IN THE EEL, *ANGUILLA ANGUILLA*.  
130. 1988. Abstract only. FR 33(4)  
[Dep. Zool., Univ. Hawaii, Honolulu]

- FEEDING BEHAVIOR OF THE PACIFIC HERRING, *CLUPEA PALLASI*, IN THE STRAIT OF GEORGIA, BRITISH COLUMBIA. *Can. J. Zool.* 66(1):182-190. 1988. In English with French summ. FR 33(4)  
 Dep. Zool., Univ. Mass., Amherst 01003]
- 004089 Robinson, S. M. C. and D. M. Ware. ONTOGENETIC DEVELOPMENT AND GROWTH RATES IN LARVAL PACIFIC HERRING, *CLUPEA HARENGUS PALLASI*, MEASUREMENTS OF RNA-DNA RATIOS IN THE STRAIT OF GEORGIA, BRITISH COLUMBIA. *Can. J. Zool.* 66(8):1422-1429. 1988. In English with French summ. FR 33(4)  
 Dep. Zool./Oceanogr., Univ. British Columbia, 6270 University Blvd., Vancouver BC V6T 1W5]
- 004090 Rogers, S. I. REPRODUCTIVE EFFORT AND EFFICIENCY IN THE FISH Goby, *POMATOSCISTUS MICRIPS* (KROYER) (TELEOSTEI: Gobioidae). *Can. J. Zool.* 66(1):109-119. 1988. FR 33(4)  
 Dept. Geol., Benarth Rd., Conwy, Gwynedd LL32 8UB, Wales]
- 004091 Rombough, Peter J. GROWTH, AEROBIC METABOLISM, AND DISSOLVED OXYGEN REQUIREMENTS OF EMBRYOS AND ALEVINS OF STEELHEAD, *SALMO GAIRDNERI*. *Can. J. Zool.* 66(3):651-660. 1988. In English with French summ. FR 33(4)  
 Dep. Zool., Brandon Univ., Brandon, MB, Canada R7A 6A9]
- 004092 Saglio, Ph. and B. Fauconneau. FREE AMINO ACID CONTENT IN THE MUSCLE OF YELLOW AND SILVER EEL, *ANGUILLA ANGUILLA* L. *Comp. Biochem. Physiol. A Comp. Physiol.* 91(1):101-104. 1988. FR 33(4)  
 Laboratoire de Recherches sur les Pêches, Université de Poitiers, UFR de Biologie, BP 3, Saint-Pée-sur-Nivelle, 64121, France]
- 004093 Sakai, Noriyoshi; Takashi Iwamatsu; Kohel Yamauchi; Norio Suzuki; and Hitaka Nagahama. INFLUENCE OF FOLLICULAR DEVELOPMENT ON STEREOID HORMONE PRODUCTION IN THE MEDAKA (*ORYZIAS LATIPES*) OVARIAN FOLLICLE IN RESPONSE TO EXOGENOUS SUBSTRATES. *Gen. Comp. Endocrinol.* 71(3):516-523. 1988. FR 33(4)  
 Lab. Reprod. Biol., Natl. Inst. Basic Biol., Okazaki 444, Japan]
- 004094 Sasaki, Kazuyuki; Hisashi Kurokura and Shogoro Kasahara. CHANGES IN OXYGEN TOLERANCE OF THE EGGS OF CERTAIN MARINE FISH DURING EMBRYONIC DEVELOPMENT. *Comp. Biochem. Physiol. A Comp. Physiol.* 91(1):183-187. 1988. FR 33(4)  
 Fac. Appl. Biol. Sci., Hiroshima Univ., 2-17 Midorimach, Fukuyama 720, Japan] *Journal of Parasitology*, *Parallchthys olivaceus*, and *Hallchoeres pocillopterus*.
- 004095 Sauer, Jodyne and John P. Harrington. HEMOGLOBINS OF THE SOLE, *GADUS MORGANI*, AND THE HERRING, *CLUPEA PALLASI*. *Comp. Biochem. Physiol. A Comp. Physiol.* 91(1):183-187. 1988. FR 33(4)  
 Dep. Chem., Univ. Alaska, Anchorage 99508]
- 004096 Scherer, E. and S. E. Harrison. EXOGENOUS CONTROL OF DIEL LOCOMOTOR ACTIVITY IN THE WHITEFISH *COREGONUS CLUPEIFORMIS*: EFFECTS OF LIGHT INTENSITY AND TEMPERATURE. *Oecologia (Berl.)* 76(2):254-260. 1988. FR 33(4)  
 Dep. Fish. & Oceans, Central & Arctic Region, Freshwater Inst., Winnipeg, MB, Canada R2N 6J6]



88-004098 Schulz, Rudiger and Volker Blum. TESTOSTERONE RAINBOW TROUT (*SALMO GAIRDNERI* RICHARDSON) TESTIS. 72(1):80-89. 1988. FR 33(4)

[Ruhr-Univ. Bochum, Fak. Biol., ND 5/27, Arbeitsgruppe V. Universitätsstr. 150, D-4630 Bochum 1, West Germany]

88-004099 Schwarz, F. J. and M. Kirchgessner. AMINO ACID (*CYPRINUS CARPIO* L.) WITH VARYING PROTEIN AND ENERGY 72(3/4):307-317. 1988. FR 33(4)

[Inst. Ernährungsphysiol. Tech. Univ. Munich, D-8050 Freising, Germany]

88-004100 Seelbach, Paul W. EFFECT OF WINTER SEVERITY ON SMOLT YIELD IN MICHIGAN: AN EXAMPLE OF THE IMPORTANCE OF ENVIRONMENTAL FACTORS IN DETERMINING SMOLT YIELD. *Am. Fish. Soc. Symp.* 1:441-450. 1987. FR 33(4)

[Mich. Dep. Nat. Resour., Inst. Fish. Res., Ann Arbor 48106, Michigan]

88-004101 Shand, Julia; J. C. Partridge; S. N. Archer; G. W. Bennett. SPECTRAL ABSORBANCE CHANGES IN THE VIOLET/BLUE SENSITIVE CONE OF JUVENILE POLLACK, *POLLACHIUS POLLACHIUS*. *J. Comp. Physiol. [A]* 163(5):699-703. 1988. FR 33(4)

[Dep. Zool., Univ. Bristol, Bristol BS8 1UG, England]

88-004102 Shatunovskiy, M. I. and A. D. Gershanovich. SMOLETS: PHYSIOLOGY AND BIOCHEMISTRY OF FISHES IN THE USSR. *J. Vopr. Ikhtol.* 27(6):80-84. 1987. FR 33(4)

88-004103 Sheridan, Mark A. LIPID DYNAMICS IN FISH: ASPECTS OF TRANSPORTATION, DEPOSITION AND MOBILIZATION. *Comp. Biochem. Physiol.* 90(4):679-690. 1988. FR 33(4)

[Dep. Zool., N.D. State Univ., Fargo 58105]

88-004104 Shumway, Carolyn A. and Randy D. Zelick. SEX RECOGNITION CODING OF ELECTRIC ORGAN DISCHARGE WAVEFORM IN THE ELECTRIC FISH, *HYPOPOMUS OCCIDENTALIS*. *J. Comp. Physiol. [A]* 163(4):465-478. 1988. FR 33(4)

[Zelick: Dep. Biol., Portland State Univ., P.O. Box 751, Portland, OR 97207]

88-004105 Singh, Hanuman; Robert W. Griffith; Akiyoshi Takahashi; Peter Thomas and John J. Stegeman. REGULATION OF GONADOTROPIN RELEASING HORMONE BY RECOMBINANT SALMON GROWTH HORMONE IN *FUNDULUS HETEROCLOTUS*. *Gen. Comp. Endocrinol.* 72(1):144-153. 1987. FR 33(4)

[Dep. Biol., Woods Hole Oceanogr. Inst., Woods Hole, MA 02543]

88-004106 Sivakami, S.; S. Ayyappan; M. F. Rahman and B. S. Subramanian. COMPOSITION OF *CYPRINUS CARPIO* (LINNAEUS) CULTURED IN TANKS AT DIFFERENT MATURITY. *Indian J. Fish.* 33(2):180-187. 1986. FR 33(4)

[CMFR Inst., Cochin 682031, India]

004108 Smith, R. L.; A. J. Paul and J. M. Paul. ASPECTS OF ENERGETICS OF  
ALLEYE POLLOCK, *THELAGRA CHALCOGRAMMA* (PALLAS), FROM ALASKA.  
[Inst. Mar. Sci., Univ. Alaska, Fairbanks 99775-0280]

004109 Snelson, Franklin F., Jr.; Sherry E. Williams-Hoopor and Thomas H.  
REPRODUCTION AND ECOLOGY OF THE ATLANTIC STINGRAY, *DASYATIS SAB*  
FLORIDA COASTAL LAGOONS. *Copeia* 1988(3):729-739. 1988. FR 33(4)  
[Dep. Biol. Sci., Univ. Cent. Fla., Orlando 32816]

004110 Sorokina, M. A.; S. V. Donskoi and A. N. Lebedeva. [SOUND PERCEP  
ERRING.] *Mar. Biol. Vladivostok* 1988(2):34-40. 1988. In Russian with English s  
(4)  
[Lab. Bioacoustical Res., Pac. Res. Inst. Fish. & Oceanogr., Vladivostok 690000  
*Upea harengus pallasi*, *Sardinops sagax melanosticta*, and *Clupanodon punctatus*.

004111 Soulier, P.; M. Peyraud-Waitzenegger; C. Peyraud and L. Bartho  
STUDY OF BAROSENSITIVITY IN THE EUROPEAN EEL (*ANGUILLA ANGUILL*  
EFFECTS OF ARTERIAL PRESSURE CHANGES ON HEART RATE AND VENTILATIO  
*of. Berl.*) 47(4):243-250. 1988. FR 33(4)  
[UA CNRS 648, Physiol. Polsson, Univ. Bretagne Occidentale, F-29287 Brest  
France]

004112 Soyano, Kiyoshi; Hideaki Yamada; Mlyuki Tateno; Noboru Kasahara a  
amauchi. [EFFECTS OF ORALLY ADMINISTERED THYROID POWDER ON SE  
ADAPTABILITY IN HATCHERY-REARED UNDERYEARLING MASU  
*UNCORHYNCHUS MASOU*) SMOLTS.] *Bull. Fac. Fish. Hokkaido Univ.* 39(2):86-  
Japanese with English summ. FR 33(4)  
[Lab. Fresh-Water Fish-Cult., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

004113 Spackor, Jennifer L.; David L. Berlinsky; Harold D. Bibb and John F.  
CYTE DEVELOPMENT IN STRIPED BASS: FACTORS INFLUENCING ESTIMATES  
T MATURITY. *Am. Fish. Soc. Symp.* 1:162-174. 1987. FR 33(4)  
[Dep. Zool., Univ. R.I., Kingston 02881] *Morone saxatilis* In Rhode Isl  
Massachusetts.

004114 Spry, Douglas John. ZINC UPTAKE IN THE RAINBOW TROUT,  
*AIRDNERI* (RICHARDSON), AS AFFECTED BY DIETARY AND WATERBORNE ZIN  
WATERBORNE CALCIUM. *Ph.D. dissertation, McMaster Univ. (Canada)* 1987. Fi  
ostr. int. B Sci. Eng. 49(2):332. 1988. FR 33(4)

004115 Stanton, Frank G. RESPONSE TO SUPPLEMENTAL FEEDING BY  
BREEDING WILD POPULATION OF MAOAO, *ABUDEFDUF ABDOMINALIS*  
OMACENTRIDAE). *Pac. Sci.* 42(1-2):133. 1988. Abstract only. FR 33(4)  
[Dep. Zool., Univ. Hawaii, Honolulu]

004116 Steele, P. O. and A. M. Steele. INTERMEDIATE SALINITIES ST  
GROWTH IN A WILD POPULATION OF ANADROMOUS BROOK TROUT. *Am. Fish. Soc.*

88-004117 Steele, P. O. and A. M. Steele. BLOOD COAGULATION ADAPTED ANADROMOUS BROOK TROUT. *Am. Fish. Soc. Symp.* only. FR 33(4)  
[Dep. Zool., Univ. West. Ontario, London, ON, Canada N6A 5B7 Canada.]

88-004118 Sugita, Haruo; Chihiro Miyajima; Jun-ichiro Iwata; S Kubo; Shin Igarashi and Yoshiaki Deguchi. INTESTINAL MICROBIAL FLORA OF COASTAL FISHES. *Nippon Suisan Gakkaishi* 54(5):875-882. 1988. In [Dep. Fish., Nihon Univ., Shimouma 3, Setagaya, Tokyo 154, Japan] only. *Japonica*, *Ditrema temminckii*, *Conger japonicus*, *Girella punctata*, and *Ostracion cubicus*.

88-004119 Sunder, Shyam. ON THE BREEDING BIOLOGY OF *SCHIZOTHORAX LONGIPINNIS*, FROM THE RIVER JHELMUM, KASHMIR. *J. Fish. Res. Board Can.* 33(2):201-210. 1986. FR 33(4)  
[Srinagar Res. Cent. CIFRI, Harwan 191123, Kashmir, India]

88-004120 Suzuki, Kunimasa; Hiroshi Kawauchi and Yoshitaka Nagahama. CHARACTERIZATION OF TWO DISTINCT GONADOTROPINS FROM PITUITARY GLANDS OF *Oncorhynchus keta*. *Gen. Comp. Endocrinol.* 71(2):292-301. 1988. FR 33(4)  
[Lab. Molecular Endocrinol. School Fish. Sci., Kitasato Univ., S Japan]

88-004121 Suzuki, Kunimasa; Hiroshi Kawauchi and Yoshitaka Nagahama. CHARACTERIZATION OF SUBUNITS FROM TWO DISTINCT SALMON GONADOTROPINS. *Gen. Comp. Endocrinol.* 71(2):302-306. 1988. FR 33(4)  
[Lab. Molecular Endocrinol., School Fish. Sci., Kitasato Univ., S Japan]

88-004122 Suzuki, Kunimasa; Yoshitaka Nagahama and Hiroshi Kawauchi. ACTIVITIES OF TWO DISTINCT SALMON GONADOTROPINS. *Gen. Comp. Endocrinol.* 71(3):452-458. 1988. FR 33(4)  
[Lab. Mol. Endocrinol., School Fish. Sci., Kitasato Univ., Sanriku, Japan]

- RYUGA, ACIPENSER STELLATUS, SPAWNERS, FROM DIFFERENT PERIODS OF WING MIGRATION. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):12-21. 1987)
- Inst. Evol. Morphol. & Anim. Ecol. - IEMEZH, Acad. Sci. USSR, Moscow, USSR]
- 04126 Tagliafierro, Grazia; Elisabetta Bonini; Gabriella Faraldi; Luisella Farina; Giuseppe G. Rossi. DISTRIBUTION AND ONTOGENY OF VIP-LIKE IMMUNOREACTIVITY IN THE GASTRO-ENTERO-PANCREATIC SYSTEM OF A CARTILAGINOUS FISH *SCYLIORHINUS TETRALELLARIS*. *Cell Tissue Res.* 253(1):23-28. 1988. FR 33(4)
- Inst. Anat. Comp., Univ. Genova, Via Balbi 5, I-16126 Genova, Italy]
- 04127 Tanasomwang, Varin and Kiyokuni Muroga. INTESTINAL MICROFLORA OF ADULT AND JUVENILE STAGES IN JAPANESE FLOUNDER (*PARALICHTHYS OLIVACEUS*). *J. Pathol.* 23(2):77-83. 1988. In English. FR 33(4)
- Dep. Fac. Appl. Biol. Sci., Hiroshima Univ., Higashi-Hiroshima 724, Japan]
- 04128 Thompson, Stewart A.; Kazuo Tachibana; Koji Nakanishi and Ichiro Kuroki. KITTIN-LIKE PEPTIDES FROM THE SHARK-REPELLING DEFENSE SECRETION OF THE SHARK *PARDACHIRUS PAVONINUS*. *Science* 233(4761):341-343. 1986. FR 33(4)
- Nat. Inst. Biorganic Res., Shimamoto-Cho, Mishima-Gun, Osaka 618, Japan]
- 04129 Thrush, M. A. and N. R. Bromage. PHOTOPERIODIC EFFECTS ON GROWTH AND MATURATION IN ATLANTIC SALMON (*SALMO SALAR*). *J. Interdiscipl. Cycle Res.* 17(2):213. 1988. Abstract only. FR 33(4)
- Dep. Fish Cult., Aston Univ., Birmingham B4 7ET, England]
- 04130 Tinola, Osmo and Hannu Luotonen. AGE DISTRIBUTION AND GROWTH OF THE HORNED SCULPIN *MYOXOCEPHALUS QUADRICORNIS*, IN THE NE BOTNIAN BAY AND THE ARCHIPELAGO SEA. *Bothnian Bay Rep.* 4:25-32. 1986. FR 33(4)
- Mar. Res. Stn., Univ. Oulu, SF-90570 Oulu, Finland]
- 04131 Titus, Eric. SHORT-CHAIN FATTY ACID TRANSPORT IN INTESTINAL, BILAYER AND BORDER MEMBRANE VESICLES OF THE AFRICAN TILAPIA *OREOCHROMIS MOSSAMBICUS*. *J. Biol. Membr.* 42(1-2):134-135. 1988. Abstract only. FR 33(4)
- Dep. Zool., Univ. Hawaii, Honolulu]
- 04132 Torres, J. J. and G. N. Somero. VERTICAL DISTRIBUTION AND METABOLISM OF ANTARCTIC MESOPELAGIC FISHES. *Comp. Biochem. Physiol. B Comp. Biochem. Physiol.* 99(5):521-528. 1988. FR 33(4)
- Dep. Mar. Sci., Univ. S. Fla., 140 7th Ave. S., St. Petersburg 33701]
- 04133 Troasurer, J. W. MEASUREMENT OF REGURGITATION IN FEEDING STUDIES ON OBLIGATORY FISHES. *J. Fish Biol.* 33(2):267-271. 1988. FR 33(4)
- Dep. Zool., Univ. Aberdeen, Tillydrone Ave., Aberdeen AB9 2TN, Scotland] *Esox lucius* and *Perca fluviatilis*.
- 04134 Trinkaus, J. P. DIRECTIONAL CELL MOVEMENT DURING EARLY DEVELOPMENT OF THE TELEOST *BLENNIUS PHOLIS*: II. TRANSFORMATION OF THE CELLS OF THE EPITHELIAL CLUSTERS INTO DENDRITIC MELANOCYTES, THEIR DISSOCIATION FROM THE CLUSTERS, AND THEIR MIGRATION TO AND INVASION OF THE PECTORAL FIN BUD.

88-004117 Steele, P. O. and A. M. Steele. BLOOD COAGULATION IN  
ADAPTED ANADROMOUS BROOK TROUT. *Am. Fish. Soc. Symp.*  
only. FR 33(4)

[Dep. Zool., Univ. West. Ontario, London, ON, Canada N6A 5B7]  
Canada.

88-004118 Sugita, Haruo; Chihiro Miyajima; Jun-ichiro Iwata; Shi-  
kubo; Shin Igarashi and Yoshiaki Deguchi. INTESTINAL MICRO-  
COASTAL FISHES. *Nippon Suisan Gakkaishi* 54(5):875-882. 1988. In E

[Dep. Fish., Nihon Univ., Shimouma 3, Setagaya, Tokyo 154, Japan  
*Japonica, Ditrema temminckii, Conger japonicus, Girella punctata, Ps*  
and *Ostracion cubicus*.

88-004119 Sunder, Shyam. ON THE BREEDING BIOLOGY OF  
*SCHIZOTHORAX LONGIPINNIS*, FROM THE RIVER JHELM, KASH-  
33(2):201-210. 1986. FR 33(4)

[Srinagar Res. Cent. CIFRI, Harvan 191123, Kashmir, India]

88-004120 Suzuki, Kunimasa; Hiroshi Kawauchi and Yoshitaka Nagahama.  
CHARACTERIZATION OF TWO DISTINCT GONADOTROPINS FROM  
PITUITARY GLANDS. *Gen. Comp. Endocrinol.* 71(2):292-301. 1988. FR 33(4)

[Lab. Molecular Endocrinol., School Fish. Sci., Kitasato Univ., S  
Japan] *Oncorhynchus keta*.

88-004121 Suzuki, Kunimasa; Hiroshi Kawauchi and Yoshitaka Nagahama.  
CHARACTERIZATION OF SUBUNITS FROM TWO DISTINCT SALMON  
*Gen. Comp. Endocrinol.* 71(2):302-306. 1988. FR 33(4)

[Lab. Molecular Endocrinol., School Fish. Sci., Kitasato Univ., S  
Japan] *Oncorhynchus keta*.

88-004122 Suzuki, Kunimasa; Yoshitaka Nagahama and Hiroshi Kawauchi.  
ACTIVITIES OF TWO DISTINCT SALMON GONADOTROPINS. *Gen. Comp. Endocrinol.*  
71(3):452-458. 1988. FR 33(4)

[Lab. Mol. Endocrinol., School Fish. Sci., Kitasato Univ., Sanriku  
*Oncorhynchus rhodurus*.

88-004123 Suzuki, Kunimasa; Akira Kanamori; Yoshitaka Nagahama  
DEVELOPMENT OF SALMON GTH I AND GTH II RADIOIMMUNOASSAYS.  
*Endocrinol.* 71(3):459-467. 1988. FR 33(4)

[Lab. Mol. Endocrinol., School Fish. Sci., Kitasato Univ., Sanriku  
*Salmo gairdneri, Oncorhynchus rhodurus, and O. keta*.

88-004124 Suzuki, Yuzuru. ISOLATION OF HEAVY BASOPHILS FROM  
BLOOD BY PERCOLL DENSITY GRADIENT CENTRIFUGATION. *Nippon Suisan Gakkaishi*  
54(7):1257. 1988. FR 33(4)

[Lab. Fish. Physiol., Fac. Agric., Univ. Tokyo, Bunkyo, Tokyo 113]

- 004125 Sytina, L. A. and V. G. Shagaeva. THERMOTOLERANCE OF PROGENY OF THE FISH *ACIPENSER STELLATUS*, SPAWNERS FROM DIFFERENT PERIODS OF SPawning MIGRATION. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):12-21. 1988. [Inst. Evol. Morphol. & Anim. Ecol.-IMEZH, Acad. Sci. USSR, Moscow, USSR]
- 004126 Tagliafierro, Grazia; Elisabetta Bonini; Gabriella Faraldi; Luisella Farinetti; Giuseppe G. Rossi. DISTRIBUTION AND ONTOGENY OF VIP-LIKE IMMUNOREACTIVE PEPTIDES IN THE GASTRO-ENTERO-PANCREATIC SYSTEM OF A CARTILAGINOUS FISH *SCYLIORHINUS TORQUATUS*. *Cell Tissue Res.* 253(1):23-28. 1988. FR 33(4) [Inst. Anat. Comp., Univ. Genova, Via Balbi 5, I-16126 Genova, Italy]
- 004127 Tanasomwang, Varin and Kiyokuni Muroga. INTESTINAL MICROFLORA OF THE ADULT AND JUVENILE STAGES IN JAPANESE FLOUNDER (*PARALICHTHYS OLIVACEUS*). *J. Fish Pathol.* 23(2):77-83. 1988. In English. FR 33(4) [Fac. Appl. Biol. Sci., Hiroshima Univ., Higashi-Hiroshima 724, Japan]
- 004128 Thompson, Stewart A.; Kazuo Tachibana; Koji Nakanishi and Ichiro Kawanishi. CHARACTERIZATION OF A SHARK-REPELLING PEPTIDE FROM THE SHARK-REPELLING DEFENSE SECRETION OF THE SHARK *PARDACHIRUS PAVONINUS*. *Science* 233(4761):341-343. 1986. FR 33(4) [Suntory Inst. Bioorganic Res., Shimamoto-Cho, Mishima-Gun, Osaka 618, Japan]
- 004129 Thrush, M. A. and N. R. Bromage. PHOTOPERIODIC EFFECTS ON THE REPRODUCTIVE CYCLE OF ATLANTIC SALMON (*SALMO SALAR*). *J. Interdispl. Cycl.* 3(3):213. 1988. Abstract only. FR 33(4) [Fish Cult., Aston Univ., Birmingham B4 7ET, England]
- 004130 Timola, Osmo and Hannu Luotonen. AGE DISTRIBUTION AND GROWTH OF THE HORNED SCULPIN *MYOXOCEPHALUS QUADRICORNIS*, IN THE NE BOTHNIAN BAY AND THE ARCHIPELAGO SEA. *Bothnian Bay Rep.* 4:25-32. 1986. FR 33(4) [Perameri Res. Stn., Univ. Oulu, SF-90570 Oulu, Finland]
- 004131 Titus, Eric. SHORT-CHAIN FATTY ACID TRANSPORT IN INTESTINAL, LIVER AND GUT MEMBRANE VESICLES OF THE AFRICAN TILAPIA *OREOCHROMIS MOSSAMBICUS*. *J. Exp. Zool.* 242(1-2):134-135. 1988. Abstract only. FR 33(4) [Dep. Zool., Univ. Hawaii, Honolulu]
- 004132 Torros, J. J. and G. N. Somero. VERTICAL DISTRIBUTION AND METABOLISM OF ANTARCTIC MESOPELAGIC FISHES. *Comp. Biochem. Physiol. B Comp. Biochem. Physiol.* 93(3):521-528. 1988. FR 33(4) [Dep. Mar. Sci., Univ. S. Fla., 140 7th Ave. S., St. Petersburg 33701]
- 004133 Treasurer, J. W. MEASUREMENT OF REGURGITATION IN FEEDING STUDY SPECIES OF PREDATORY FISHES. *J. Fish Biol.* 33(2):267-271. 1988. FR 33(4) [Dep. Zool., Univ. Aberdeen, Tillydrone Ave., Aberdeen AB9 2TN, Scotland] *Esox lucius*, *Perca fluviatilis*.
- 004134 Trinkaus, J. P. DIRECTIONAL CELL MOVEMENT DURING EARLY DEVELOPMENT OF THE TELEOST *BLENNIUS PHOLIS*: II. TRANSFORMATION OF THE CELL POLARITY DURING THE EARLY STAGES OF DEVELOPMENT. *J. Exp. Zool.* 242(1-2):134-135. 1988. Abstract only. FR 33(4) [Dep. Zool., Univ. Aberdeen, Tillydrone Ave., Aberdeen AB9 2TN, Scotland]

88-004136 Tsuchimoto, Mutsuyosi; Noriaki Tanaka; Tosio Misima; Senta and Masato Yasuda. THE INFLUENCE OF HABITAT WATER TEMPERATURE ON THE RELATIVE THERMOSTABILITY OF MYOFIBRILLAR  $Ca^{2+}$ -ATPase IN THE WATERS FROM TROPICAL TO FRIGID ZONES. *Nippon Suisan Gakkaishi* 54(1): 1-5. 1988. In English. FR 33(4)

[Lab. Fish. Nutr. Sci., Fac. Fish., Nagasaki Univ., Nagasaki 852

88-004137 Tytler, P. and J. H. S. Blaxter. THE EFFECTS OF FEEDING ON THE DRINKING RATES OF THE LARVAE OF HERRING, PLAICE AND SCOTLAND SCOTLAND. *Journal of the Marine Biological Association of the United Kingdom* 68(1): 138:1-15. 1988. FR 33(4)

[Dep. Biol. Sci., Univ. Stirling, Stirling FK9 4LA, Scotland] (*Clupea harengus*, and *Pleuronectes platessa*.)

88-004138 Van Asselt, L. A. C.; H. J. Th. Goos; W. Smit-Van Dijk and P. G. W. J. Van Oordt. EVIDENCE FOR THE INVOLVEMENT OF DOPAMINERGIC INHIBITION OF GONADOTROPIN RELEASE IN THE COMMON GOLDFISH, *CLARIAS GARIEPINUS*. *Aquaculture* 72(3/4):369-378. 1988. FR 33(4)

[Dep. Exp. Zool., Res. Group Comp. Endocrinol., Univ. Utrecht, Utrecht, Netherlands]

88-004139 Villarreal, C. A.; J. E. Thorpe and M. S. Miles. INFLUENCE OF FEEDING ON GROWTH CHANGES IN JUVENILE ATLANTIC SALMON, *SALMO SALAR* L. *Journal of the Marine Biological Association of the United Kingdom* 68(1):15-30. 1988. FR 33(4)

[Escuela Biol., Univ. Panama, Panama City, Panama]

88-004140 Viola, Shlomoh; Yeruham Arieli and Shoshanah Mokady. EFFECTS OF LONG TERM FEEDING OF FISH OIL COATED PELLETS ON TILAPIA AND CARP. *Bamidgah* 40(2):64-68. 1988. FR 33(4)

[Kfar Masaryk, D.N. Ashrat 25208, Israel] (*Oreochromis aureus* and *Cyprinus sp.*)

88-004141 Virtanen, Erkki; Annika Salama and Bjorn-Erik Lonn. EFFECTS OF FEEDING ON THE CAPACITY OF IONIC AND OSMOTIC REGULATION IN YOUNG BASS, *MICROPTERUS SALMOLUS* L. IN BRACKISH WATER. *Comp. Biochem. Physiol. A Comp. Biochem. Physiol.* 90(3):387-389. 1988. FR 33(4)

[Finnish Game & Fish. Res. Inst. & Div. Physiol., Inst. of Zoology, P.O. Box 16, Arkadiankatu 7, SF-00100 Helsinki, Finland]

88-004142 Vitvitskaya, L. V.; L. S. Bikbulatova; S. I. Nikonorova; Pol'gin; V. N. Nezavibat'ko; L. A. Alfaeva and L. A. Anisimova. EFFECTS OF SYNTHETIC NEUROPEPTIDES ON THE BEHAVIOR AND RNA SYNTHESIS IN STARVED STURGEON FRY. *Dokl. Biol. Sci. (Engl. Transl. Dokl. Akad. Nauk SSSR)* 296: 680-683. 1988. FR 33(4)

[Zool. Inst. Acad. Sci. USSR, Leningrad, USSR]

88-004143 Vlok, W. and J. H. J. Van Vuren. PHYSICAL COMPOSITION AND FEEDING OF *BARBUS AENEUS*, THE SMALLMOUTH YELLOWFISH (CYPRINIDAE). *Physiol. A Comp. Physiol.* 90(3):387-389. 1988. FR 33(4)

004144 Wagner, E. R. EFFECTS OF BARRIERS ON CONCENTRATIONS OF TESTOSTERONE IN MIGRATING SMOLTS OF CHINOOK SALMON AND STEELHEAD TROUT IN RIVERS, RACEWAYS, OR AFTER FLUME PASSAGE. *M.S. Thesis, Univ. Idaho* 59p. 1988. FR 33(4)

*Oncorhynchus tshawytscha* and *Salmo gairdneri*.

004145 Wales, N. A. M. HORMONE STUDIES IN *MYXINE GLUTINOSA*: FAILURE OF TESTOSTERONE AND CORTISOL TO INFLUENCE URINE FLOW OR PLASMA AND URINE ELECTROLYTE BALANCE. *Gen. Comp. Endocrinol.* 71(1):80-84. 1988. FR 33(4)

[Dep. Biol. Sci., Sheffield City Polytech., Pond St., Sheffield S1 1WB, England]

004146 Wallace, Jeff C.; Arne Kolbohnshavn and Dagfinn Aasjord. OBSERVATIONS ON THE EFFECT OF LIGHT INTENSITY ON THE GROWTH OF ARCTIC CHARR FINGER (*ARCTICUS ALPINUS*) AND SALMON FRY (*SALMO SALAR*). *Aquaculture* 72(1/2):1-10. 1988. FR 33(4)

[Univ. Tromsø, Blamannsvik Ros. Stn., N-9105 Eidkjosen, Tromsø, Norway]

004147 Ward, B. R. and P. A. Stanley. LIFE HISTORY AND SMOLT-TO-ADULT SURVIVAL OF KEOGH RIVER STEELHEAD TROUT (*SALMO GAIRDNERI*) AND ITS RELATIONSHIP TO SMOLT SIZE. *Can. J. Fish. Aquat. Sci.* 45(7):1110-1122. 1988. FR 33(4)

[Fish. Res. Board, Mar. Res. Div., 2204 Marine Dr., Victoria, British Columbia, Vancouver, BC, Canada V6T 1W5]

004148 Warlen, Stanley M. AGE AND GROWTH OF LARVAL GULF MENHADEN (*BREVOORTIA PATRONUS*), IN THE NORTHERN GULF OF MEXICO. *U.S. Natl. Mar. Fish. Bull.* 86(1):77-90. 1988. FR 33(4)

[Southeast Fish. Cent., NMFS, NOAA, Beaufort, NC 28516-9722]

004149 Waterstrat, P. R.; A. J. Ainsworth and G. Capley. USE OF A DISCONTINUOUS COLL GRADIENT TECHNIQUE FOR THE SEPARATION OF CHANNEL CATFISH (*Ictalurus punctatus* (Rafinesque)), PERIPHERAL BLOOD LEUCOCYTES. *J. Fish. Res. Board Can.* 45(1):289-294. 1988. FR 33(4)

[Ainsworth: Coll. Vet. Med., Drawer V, Miss. State Univ., Mississippi State 39726]

004150 Webb, Paul W. 'STEADY' SWIMMING KINEMATICS OF TIGER MUSKY (*Esox masquinongy*), UNIFORM ACCELERATOR, AND RAINBOW TROUT, A GENERALIST CRUISER. *J. Fish. Res. Board Can.* 45(1):51-69. 1988. FR 33(4)

[Dep. Biol. & School Nat. Resour., Univ. Mich., Ann Arbor 48109] *Esox masquinongy*, *Salmo gairdneri*.

004151 Wieser, W.; H. Forstner; F. Schiemer and W. Mark. GROWTH RATES AND FEEDING EFFICIENCIES IN LARVAE AND JUVENILES OF *RUTILUS RUTILUS* AND *PERCINUS PERCINUS* SPECIES: EFFECTS OF TEMPERATURE AND FOOD IN THE LABORATORY AND IN THE FIELD. *Can. J. Fish. Aquat. Sci.* 45(6):943-950. 1988. In English with French summ. FR 33(4)

[Inst. Zool., Univ. Innsbruck, Technikerstr. 25, A-6020 Innsbruck, Austria] *Leuciscus leuciscus* and *Alburnus alburnus* in Europe.

004152 Wissmar, Robert C. and Charles A. Simenstad. ENERGETIC CONSTRAINTS ON JUVENILE CHUM SALMON (*ONCORHYNCHUS KETA*) MIGRATING IN ESTUARIES. *Can. J. Fish. Aquat. Sci.* 45(9):1555-1560. 1988. In English with French summ. FR 33(4)



Xu Yunggan and He Daren. [PRELIMINARY STUDY OF RESPONSES OF JUVENILE *SPARUS LATUS* AND *MUGIL CEPHALUS*.] 19(2):109-115. 1988. In Chinese with English summ. FR 33(4)

88-004154 Yamada, Hideaki; Hiromi Ohta and Kohei Yamauchi. [CHANGES IN THYROIDAL THYROXINE, ESTRADIOL-17 $\beta$  AND TESTOSTERONE CONCENTRATIONS DURING SMOLTIFICATION IN THE MASU SALMON, *ONCORHYNCHUS MASOU*.] *Fish Hatchery* No. 42. p. 1-11. 1987. In Japanese with English summ. [Fac. Fish., Hokkaido Univ., Hokkaido, Japan]

88-004155 Yamamitsu, Shunichi and Yasuo Itazawa. [EFFECTS OF AMBIENT TEMPERATURE ON THE ECG AND RESPIRATORY FUNCTION IN THE CARP, *CYPRINUS CARPIO*.] *Suisan Gakkaishi* 54(5):751-759. 1988. In Japanese with English summ. [Dep. Fish., Fac. Agric., Kyushu Univ., Hakozaki, Fukuoka 812, Japan]

88-004156 Yano, Tomoki; Hiroko Matsuyama and Miki Nakao. ISOLATION AND CHARACTERIZATION OF A COMPLEMENT (C1) FROM CARP SERUM. *Nippon Suisan Gakkaishi* 54(5):851-859. 1988. In English. FR 33(4) [Lab. Fish. Chem., Fac. Agric., Kyushu Univ., Fukuoka 812, Japan]

88-004157 Yano, Tomoki; Yukihiko Hatayama; Hiroko Matsuyama and Miki Nakao. [TITRATION OF THE ALTERNATIVE COMPLEMENT PATHWAY IN REPRESENTATIVE CULTURED FISHES.] *Nippon Suisan Gakkaishi* 54(6):861-869. 1988. In Japanese with English summ. FR 33(4) [Lab. Fish. Chem., Fac. Agric., Kyushu Univ., Fukuoka 812, Japan] *Salmo gairdneri*, *Cyprinus carpio*, *Tilapia nilotica*, *Plecoglossus altivelis*, *Paralichthys olivaceus*.

88-004158 Yarzhombek, A. A. and E. N. Bekina. EFFICIENCY OF ABSORBABLE MATTER FROM WATER BY FISH. *J. Ichthyol. (Engl. Transl.)* 27(6):22-29. 1987. FR 33(4) [All-Union Pond Fish. Res. Inst., Post Off. Rybnoe, Moscow Province] *Salmo gairdneri*, *Oncorhynchus kisutch*, and *Oreochromis mossambicus*.

88-004159 Young, Graham. ENHANCED RESPONSE OF THE INTERMEDIATE PHASE OF SALMON (*ONCORHYNCHUS KISUTCH*) TO ACTH AFTER GROWTH HORMONE TREATMENT *IN VIVO* AND *IN VITRO*. *Gen. Comp. Endocrinol.* 71(1):85-92. 1988. FR 33(4) [Dep. Zool. & Cancer Res. Lab., Univ. Calif., Berkeley 94720]

88-004160 Young, Michael J. A. TEMPERATURE AND PHOTOPERIOD EFFECTS ON OVARIAN MATURATION IN THE CHINESE CATFISH, *CLARIAS FUSCUS*. *J. Herpetol.* 22(1):138. 1988. Abstract only. FR 33(4) [Dep. Zool., Univ. Hawaii, Honolulu]

88-004161 Young, Paclencia S.; Stephan D. McCormick, Jeffery R. Deming, Richard S. Nishioka and Howard A. Bern. EFFECTS OF HYPOPHYSECTOMY, AND PROLACTIN ON WHOLE-ANIMAL TRANSEPTHEMIA IN THE TILAPIA *OREOCHROMIS MOSSAMBICUS*. *Gen. Comp. Endocrinol.* 71(1):138-144. 1988. FR 33(4) [Dep. Wildl. & Fish. Biol., Univ. Calif., Davis]

CHARACTERIZATION OF SEA BASS (*DICENTRARCHIUS LABRAX* L.) VITELLOGENESIS. *Pesq.* 51(3):467-477. 1987. In Spanish with English summ. FR 33(4)  
Inst. Acuicult. Torre Sal, Ribera Cabanes, 12595 Castellon, Spain]

004163 Zinichev, V. V. and A. I. Zotin. SELECTED TEMPERATURE AND OPTIMUM DEVELOPMENT IN PROLARVAE AND LARVAE OF CHUM SALMON, *ONCORHYNCHUS KETA*. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):141-144. 1987. FR 33(4)  
Inst. Biol. Dev. -- IBR, AN SSSR, Moscow, USSR]

#### GENETICS, VARIATION STUDIES AND HYBRIDIZATION

004164 Aebersold, Paul B.; Gary A. Winans; David J. Teel; George B. Milner and Robert W. Utter. MANUAL FOR STARCH GEL ELECTROPHORESIS: A METHOD FOR DETECTION OF GENETIC VARIATION. NOAA (Natl. Oceanic Atmos. Admin.) Technical Report 85 (Natl. Mar. Fish. Serv.) 61. 19p. 1987. FR 33(4)  
Coastal Zone & Estuarine Studies Div., Northwest & Alaska Fish. Cont., NMFS, 1600 Montlake Blvd. E., Seattle, WA 98112]

004165 Agellon, L. B.; S. L. Davies; T. T. Chen and D. A. Powers. STRUCTURE AND EVOLUTION OF A RAINBOW TROUT GROWTH HORMONE GENE AND ITS EVOLUTIONARY IMPLICATIONS. *Proc. Natl. Acad. Sci. USA* 85(14):5136-5140. 1988. FR 33(4)  
Columbia Univ. Coll. Physicians & Surgeons, 630 W. 168th St., New York, NY 10032  
*no galdrnerl.*

004166 Allendorf, Fred W. and Robb F. Leary. CONSERVATION AND DISTRIBUTION OF GENETIC VARIATION IN A POLYTYPIC SPECIES, THE CUTTHROAT TROUT. *Conserv. Biol.* 2(2):170-184. 1988. In English with Spanish summ. FR 33(4)  
Dep. Zool., Univ. Mont., Missoula, 59812] *Salmo clarki*.

004167 Balon, Eugene K.; Stephen S. Crawford and Anton Lelek. IS THE OCCURRENCE OF *GIOBIO ALBIPINNATUS* LUKASCH 1933 IN THE UPPER DANUBE A RESULT OF DISPERSION OR SYMPATRIC SPECIATION? *Senckenb. Biol.* 68(4/6):275-299. 1987. In English with German summ. FR 33(4)  
Dep. Zool., Univ. Guelph, Guelph, ON, Canada N1G 2W1] *G. gablo*.

004168 Becker, Inga I.; W. Stewart Grant; Ralph Kirby and Frank T. O'Connell. EVOLUTIONARY DIVERGENCE BETWEEN SYMPATRIC SPECIES OF SOUTHERN AFRICAN MERLUCCIUS. I. *M. MERLUCCIUS CAPENSIS* AND *M. PARADOXUS*. II. RESTRICTION ENDOGENE ANALYSIS OF MITOCHONDRIAL DNA. *Heredity* 61(1):21-30. 1988. FR 33(4)  
Dep. Microbiol., Univ. Cape Town, Rondebosch 7700, South Africa]

004169 Billington, Neil and Paul D. N. Hebert. USE OF MITOCHONDRIAL DNA (mtDNA) ANALYTICAL TECHNIQUES IN FISH STOCK MANAGEMENT. *Int. Assoc. Great Lakes Res. Conf.* 3:1-7. Abstract only. FR 33(4)  
Great Lakes Inst., Univ. Windsor, Windsor, ON, Canada N9B 3P4]

004170 Chakraborty, S. K. and P. V. Kagwade. CHROMOSOME COUNTS OF *CHILICTUOSA* AND *JOHNIUS BELAGERII* (PISCES: SCIAENIDAE). *Indian J. Zool.* 17(1):115-118. 1986. FR 33(4)

... and R. K. Avtalion. PRODUCTION OF VIABLE T  
USING THE COLD SHOCK TECHNIQUE. *Bamidgeh* 40(1):17-21. 1988. F  
[Lab. Fish Immunol. & Genet., Dep. Life Sci., Bar-Ilan Univ., Ram  
*Oreochromis aureus*.

88-004172 Ermolenko, L. N.; S. P. Pustoyoit; A. N. Makoedov and  
[GENETICS OF PHOSPHOGLUCOMUTASE (PGM-2) ISOENZYMES IN  
*Genetika* 24(7):1262-1268. 1988. In Russian with English summ. FR 33(4)  
[Inst. Biol. Problems North, Acad. Sci. USSR, Far East Div., Magad

88-004173 Ferguson, Moira M.; Roy G. Danzmann and Fred W. Allendo  
SUCCESS OF HYBRIDS BETWEEN TWO TAXA OF SALMONID FISH  
STRUCTURAL GENE DIVERGENCE. *Can. J. Zool.* 66(6):1389-1395. 1  
French summ. FR 33(4)  
[Dep. Zool., Univ. Guelph, Guelph, ON, Canada N1G 2W1] *Salmo clari-*  
*lewisii*.

88-004174 Gold, J. R. and W. J. Karel. DNA BASE COMPOSITION  
DISTRIBUTION AMONG FIFTEEN SPECIES OF TELEOSTEAN FISHE  
*Physiol. B Comp. Biochem.* 90(4):715-719. 1988. FR 33(4)  
[Dep. Wildl. & Fish. Sci., Tex. A&M Univ., College Station 77843]

88-004175 Grady, James Michael. BIOCHEMICAL SYSTEMATICS AND E  
ICTALURID CATFISH GENUS *NOTURUS* (PISCES, SILURIFORMES).  
*South. Ill. Univ. (Carbondale)* 202p. 1987. From Diss. Abstr. Int. B  
1988. FR 33(4)

88-004176 Grant, W. Stewart; Inga I. Becker and Rob W. Leslie  
DIVERGENCE BETWEEN SYMPATRIC SPECIES OF SOUTHERN  
*MERLUCCIVUS CAPENSIS* AND *M. PARADOXUS*. I. ELECTROPHORE  
PROTEINS. *Heredity* 61(1)13-20. 1988. FR 33(4)  
[Dep. Genet., Univ. Witwatersrand, Johannesburg 2050, South Africa]

88-004177 Grewe, Peter M. and P. D. N. Hebert. IMPLICATIONS OF  
DNA DIVERSITY FOR LAKE TROUT MANAGEMENT. *Int. Assoc. Great*  
30:A-24. 1987. Abstract only. FR 33(4)  
[Biol. Dep., Great Lakes Inst., Univ. Windsor, Windsor, ON, Canada N  
*namaycush*.

88-004178 Gyllensten, Ulf and Nils Ryman. BIOCHEMICAL GENETIC  
POPULATION STRUCTURE OF FOURHORN SCULPIN (*MYOXOCEPHALUS*  
COTTIDAE) IN SCANDINAVIA. *Hereditas* 108(2):179-185. 1988. FR 33(4)  
[Dep. Genet., Univ. Stockholm, Stockholm, Sweden]

88-004179 Hallerman, Eric M. and Jacques S. Beckmann. DNA-LEVEL PO  
TOOL IN FISHERIES SCIENCE. *Can. J. Fish. Aquat. Sci.* 45(6):1075-108  
with French summ. FR 33(4)  
[Dep. Anim. Sci., Univ. Minn., St. Paul 55108]

88-004180 Happe, A.; Edwige Quillet and B. Chevassus. EARLY L  
TRIPLOID RAINBOW TROUT (*SALMO GAIRDNERI* RICHARDSON)  
118. 1988. FR 33(4)

- 88-004181 Hedgecock, Dennis and Devin M. Bartley. ALLOZYME VARIATION IN CALIFORNIA HALIBUT, *PARALICHTHYS CALIFORNICUS*. *Calif. Fish Game* 74(2):1-10. 1988. FR 33(4)  
[Bodega Mar. Lab., P.O. Box 247, Bodega Bay, CA 94923]
- 88-004182 Hine, P. M. and J. M. Wain. OBSERVATIONS ON THE GRANULE PEROXIDASE OF TELEOSTS: A PHYLOGENETIC PERSPECTIVE. *J. Fish Biol.* 33(2):1-10. 1988. FR 33(4)  
[Fish. Res. Cent., Minist. Agric. & Fish., P.O. Box 297, Wellington, New Zealand]
- 88-004183 Houde, Anne E. GENETIC DIFFERENCE IN FEMALE CHOICE BETWEEN GUPPY POPULATIONS. *Anim. Behav.* 36(2):510-516. 1988. FR 33(4)  
[Dep. Biol., Princeton Univ., Princeton, NJ 08544]
- 88-004184 Ihssen, P. E.; J. M. Casselman; G. W. Martin and R. B. Nielsen. BIOCHEMICAL GENETIC DIFFERENTIATION OF LAKE TROUT (*SALVELINUS NAMAYCUS*) STOCKS OF THE GREAT LAKES REGION. *Can. J. Fish. Aquat. Sci.* 45(6):1018-1024. 1988. FR 33(4)  
[Ontario Minist. Nat. Resour., Res. Sect., Fish. Branch, Box 50, Maple, ON, Canada M6E0]
- 88-004185 Izyumov, Yu. G. and O. G. Gerasimonko. EXPERIMENTAL EVIDENCE OF HYBRID ORIGIN OF THE MIDDLE VOLGA POPULATION OF BREAM, *ABRAMIS BRASSA*. *Izv. Vsesoyuzn. Nauchn. Ts.entr. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):101-103. 1987. FR 33(4)  
[Inst. Biol. Inland Waters-IBVV AN SSSR, Borok Yaroslavskaia Sect., USSR]
- 88-004186 Laius, D. L. NEW DATA ON KARYOLOGICAL CHARACTERISTICS OF BREAM SPAWNING IN KANDALAKSHA BAY OF THE WHITE SEA. *Dokl. Biol. Sci. (Engl. Transl. Dokl. Akad. Nauk SSSR)* 297(1-6):698-701. 1988. FR 33(4)  
[Zool. Inst. Acad. Sci. USSR, Leningrad, USSR]
- 88-004187 Langhammer, James K. THE BLACK BEAUTY SAWFIN: THE FIRST CULTIVAR. *Trop. Fish Hobbyist* 37(1):22-24, 27. 1988. FR 33(4)  
[*Skiffia multipunctata* and *S. francesae*.]
- 88-004188 Lewis, Ricki. FISH: NEW FOCUS FOR BIOTECHNOLOGY. *BioScience* 38(1):22-27. 1988. FR 33(4)  
[SUNY, Albany, NY]
- 88-004189 Meffe, Gary K. and Robert C. Vrijenhoek. CONSERVATION GENETICS AND MANAGEMENT OF DESERT FISHES. *Conserv. Biol.* 2(2):157-169. 1988. In English with Spanish summ. FR 33(4)  
[Savannah River Ecol. Lab., Drawer E, Aiken, SC 29801]
- 88-004190 Monaco, Paul J.; Ellen M. Rasch and Phillip R. Musich. POLYMORPHISM IN MITOCHONDRIAL DNA OF A UNISEXUAL FISH. *Copeia* 1988(3):774-777. 1988. FR 33(4)  
[Coll. Med., E. Tenn. State Univ., Johnson City 37615] *Poecilia formosa*.

88-004192 Oikubo, Shin-ichi. [GENETIC VARIABILITY IN HATCHERY POPULATIONS OF MASU SALMON, *ONCORHYNCHUS MASOU*.] *Sci. Hatchery No.* 42, p. 37-44. 1987. In Japanese with English summ. FR 33(4) [Hokkaido Fish Hatchery, Hokkaido, Japan]

88-004193 Okamoto, Hiroaki; Fumio Yamazaki and Seikichi Mishima. [GENETIC VARIABILITY AMONG SAND-LANCE *AMMODYTES PERSONATUS* POPULATIONS IN JAPAN.] *Gakkaiishi* 51(8):1297-1304. 1988. In Japanese with English summ. FR 33(4) [Fac. Fish., Hokkaido Univ., Minato 3, Hakodate 041, Japan]

88-004194 Prince, John Stuart, Jr. AN ELECTROPHORETIC ANALYSIS OF THE GENETIC RELATIONSHIP BETWEEN *ETHEOSTOMA NIGRUM* AND *ETHEOSTOMA BLOTTI* (PERCIDAE: ETHEOSTOMATINI) IN THE JAMES RIVER DRAINAGE. *Thesis, Univ. Richmond* 1985. From Masters Abstr. Int. 1986. FR 33(4)

88-004195 Quillet, Edwige; Bernard Chevassus; Jean-Marie Blanc; Daniel Chourrou. PERFORMANCES OF AUTO AND ALLOTRIPLOID SALMONS IN SURVIVAL AND GROWTH IN FRESH WATER FARMING. *Aquat. Living Resour.* 1988. In English with French summ. FR 33(4)

[Stn. Hydrobiol., INRA, Saint-Pee-sur-Nivelle, 64310 Ascain, France] *Salmo trutta*, *Salvelinus fontinalis*, and *Oncorhynchus kisutch*.

88-004196 Quillet, Edwige; B. Chevassus and A. Devaux. TIMING OF HATCHING IN GYNOGENETIC, TRIPLOID, TETRAPLOID, AND HYBRID RAINBOW TROUT. *Genet. Sel. Evol.* 20(2):199-210. 1988. In English with French summ. FR 33(4)

[Inst. Natl. Rech. Agron., Lab. Genet. Poissons, 78350 Jouy-en-Josas, France]

88-004197 Seeb, James E.; Gary H. Thorgaard and Fred M. Utter. ALLOZYME EXPRESSION IN DIPLOID AND TRIPLOID HYBRIDS BETWEEN COHO SALMON AND CHINOOK SALMON. *Aquaculture* 72(1/2):31-48. 1988. FR 33(4)

[Fish. Res. Lab., South. Ill. Univ., Carbondale 62901] *Oncorhynchus kisutch* and *O. tshawytscha*.

88-004198 Seki, Shingo and Nobuhiko Taniguchi. [TRACKING THE LANDLOCKED FORM BY ISOZYME MARKERS.] *Nippon Suisan Gakkaiishi* 54(1):1-4. 1988. In Japanese with English summ. FR 33(4)

[Dep. Cult. Fish., Fac. Agric., Kochi Univ., Nankoku, Kochi 780, Japan]

88-004199 Serov, D. V. and S. I. Nikonov. MECHANISM AND FUNCTION OF THE LACTATE DEHYDROGENASE GENE IN STURGEON. *Dokl. Biol. Chem.* 297(1-6):635-637. 1988. FR 33(4)

[A. N. Severtsov Inst. Evol. Morphol. & Anim. Ecol., Acad. Sci. USSR] *Acipenser stellatus*.

- 1201 Standbrough, Sheila B. and Michael C. Wooten. GENETIC VARIABILITY OF FISH FROM SOUTHERN ALABAMA AND FLORIDA. *J. Ala. Acad. Sci.* 59(3) 1987. Abstract only. FR 33(4)  
[Dominion Univ., Norfolk, VA 23508] *Alosa sapidissima*.
- 1202 Starmach, Janusz. INDIVIDUAL GENETIC VARIABILITY WITHIN SYNTHETIC LINES OF CARP AGAINST THE BACKGROUND OF THE ELECTROPHORETIC VARIATION OF BLOOD PLASMA TRANSFERRIN. *Acta Hydrobiol.* 29(1):111-118. 1987. English with Polish summ. FR 33(4)  
[Polish Acad. Sci., Inst. Freshwater Biol., ul. Slawkowska 17, 31-016 Krakow, Poland] *Cyprinus carpio*.
- 1203 Stoddard, Kirk McAllister. A PHYLOGENETIC ANALYSIS OF SERRANID FISHES (TELEOSTEI, STICHAEIDAE, XIPHISTERINAE) FROM THE NORTH PACIFIC OCEAN, WITH A DISCUSSION OF THEIR BIOGEOGRAPHY. *M.A. thesis, California State Univ. (Fullerton)* 97p. 1985. From Masters Abstr. Int. 24(1):46. 1986. FR 33(4)
- 1204 Sugama, Ketut; Nobuhiko Taniguchi and Susumu Umoda. AN EXPERIMENTAL STUDY ON GENETIC DRIFT IN HATCHERY POPULATION OF RED SEA BREAM. *Nippon Suisan Gakkaishi* 54(5):739-744. 1988. In English. FR 33(4)  
[Dep. Aquacult. Fish., Fac. Agric., Kochi Univ., Nankoku, Kochi 783, Japan] *Pagrus major*.
- 1205 Tabata, Kazuo and Shigeaki Gorio. [COMPARISON OF GROWTH AND GENETIC DIPLOIDS WITH CONTROL DIPLOIDS IN HIRAME *PARALICHTHUS OBTUSUS* REARED IN THE SAME TANK.] *Nippon Suisan Gakkaishi* 54(7):1143-1147. 1988. In Japanese with English summ. FR 33(4)  
[Hiroshima Prefectural Fish. Exp. Stn., Nakazaki, Akashi, Hyogo 673, Japan]
- 1206 Ueda, Takayoshi; Ryozo, Sato and Jindo Kobayashi. SILVER-BANDED PHENOTYPES OF THE RAINBOW TROUT AND THE BROOK TROUT AND THEIR HYBRID APPEARANCE IN ALLOTRIPLOIDS OF Ag-NORs ORIGINATED FROM THE BROOK TROUT. *Jpn. J. Genet.* 63(3):219-226. 1988. FR 33(4)  
[Dep. Biol., Fac. Educ., Utsunomiya Univ., Utsunomiya 321, Japan] *Salmo gairdneri* and *Salmo fontinalis*.
- 1207 Varnavskaya, N. V. and V. S. Varnavsky. [THE BIOLOGY OF THE DWARF EYE SALMON OF DALNEE LAKE (KAMCHATKA).] *Mar. Biol. Vladivostok* 1988(2) 1988. In Russian with English summ. FR 33(4)  
[Inst. Salmonids, Kamchatka Div. Pac. Res. Inst. Fish. & Oceanogr., Petropavlovsk-Kamchatsky 683000, USSR] *Oncorhynchus nerka*.
- 1208 Vitturi, R.; B. Zava; E. Catalano; A. Maiorca and M. Macaluso. KARYOTYPIC ANALYSIS OF SOME MEDITERRANEAN TELEOSTEAN FISHES. *Biol. Zentralbl.* 107(3):339-344. 1988. In German with English summ. FR 33(4)  
[Inst. Zool., Univ. Palermo, Via Archirafi 18, 90123 Palermo, Italy] *Zeus faber*, *Boltonichthys mediterraneus*, *Trachinus draco*, *Lopholatilus chamaeleonis*, and *Gymnammodites cicerellus*.

88-004210 Vrijenhoek, Robert C.; Michael E. Douglas and Gary K. GENETICS OF ENDANGERED FISH POPULATIONS IN ARIZONA. *Sci.* 1985. FR 33(4)

[Bur. Biol. Res., Rutgers Univ., New Brunswick, NJ 08903] *Poec.*

88-004211 Wang Ruifang; Shi Lining and He Weishun. [A COMPARISON OF AG-NORS OF *CARASSIUS AURATUS* FROM DIFFERENT GEOGRAPHICAL REGIONS]. *Res.* 9(2):165-169. 1988. In Chinese with English summ. FR 33(4)

[Kunming Inst. Zool., Acad. Sinica, China]

88-004212 Watahiki, Masanori; Minoru Tanaka; Naoki Masuda; Masahiko Yoneda and Kunio Nakashima. cDNA CLONING AND PRIMARY STRUCTURE OF *(SERIOLA QUINQUERADIATA)* PREGROWTH HORMONE. *Gen. Comp. Endocrinol.* 406. 1988. FR 33(4)

[Nakashima, Dep. Biochem., Mie Univ. School Med., 2-174 Edobashi, Tsu, Mie, Japan]

88-004213 Watanabe, Ken-ichi and Ken-ichi Numachi. [BIOCHEMICAL AND MORPHOLOGICAL EXAMINATION OF THE SIBLING SPECIES OF *PLEURONICHTHYS* IN THE EASTERN PART OF THE SETO INLAND SEA.] *Nippon Suisan Gakkaishi* 772. 1988. In Japanese with English summ. FR 33(4)

[Tokushima Prefectural Fish. Exp. Stn., Hiwasa, Kaifu, Tokushima, Japan]  
*Pleuronichthys cornutus*.

88-004214 Weitzman, Stanley H. and Richard P. Vari. MINIATURIZATION IN AMERICAN FRESHWATER FISHES; AN OVERVIEW AND DISCUSSION OF THE PHENOMENON. *Env. Biol. Fish.* 101(2):444-465. 1988. In English with Portuguese summ. FR 33(4)

[Dep. Vertebr. Zool., (Fishes), Natl. Mus. Nat. Hist., Smithsonian Institution, Washington, DC 20560]

88-004215 Wike, Lynn Dell. AN EXAMINATION OF THE BASIC REPRODUCTIVE PERFORMANCE IN THE HYBRID GRASS CARP. *Ph.D. dissertation* (Champaign) 148p. 1987. From Diss. Abstr. Int. B Sci. Eng. 49(2): 20560

*Ctenopharyngodon idella* and *Hypophthalmichthys nobilis*.

88-004216 Ziuganov, V. V. [STUDIES ON THE MECHANISMS OF REPRODUCTIVE ISOLATION OF FORMS OF *TRACHURUS*, *LEIURUS*, *THREESPINE STICKLEBACK* *GASTEROSTEUS ACULEATUS* AND *GASTEROSTEIDAE*] FROM TWO GEOGRAPHICAL REGIONS. *Zool. Zh.* 76(1):1-12. 1987. In Russian with English summ. FR 33(4)

[Inst. Dev. Biol., USSR Acad. Sci., Moscow, USSR]

## BEHAVIOR

88-004217 Beacham, Jeffery L. THE RELATIVE IMPORTANCE OF AGGRESSIVE EXPERIENCE AS DETERMINANTS OF DOMINANCE IN *LEPOMIS GIBBOSUS*. *Anim. Behav.* 36(2):621-623. 1988. FR 33(4)

[Dep. Biol. Sci., SUNY, Albany, NY 12222]

- 1218 *VELIFERA* (PISCES: POECILIIDAE) DURING CAPTIVITY. *Ethology* 79(1):1-10. 1987. FR 33(4)  
 1. Popul. Biol., Univ. Copenhagen, Universitetsparken 15, DK-2100 Copenhagen [Denmark]
- 1219 Boreman, John and R. Rhett Lewis. ATLANTIC COASTAL MIGRATION OF THE BASS. *Am. Fish. Soc. Symp.* 1:331-339. 1987. FR 33(4)  
 FS, Northeast Fish. Cent., Woods Hole, MA 02543] *Morone saxatilis*.
- 1220 Butler, John L. and Darlene Pickcott. AGE-SPECIFIC VULNERABILITY OF THE ATLANTIC SARDINE, *SARDINOPS SAGAX*, LARVAE TO PREDATION BY NORTHERN COHO WIGGON, *ENGRAULIS MORDAX*. *U.S. Natl. Mar. Fish. Serv. Fish. Bull.* 86(1):163-171. 1987. FR 33(4)  
 Northwest Fish. Cent., NMFS, NOAA, P.O. [Box 271, La Jolla, CA 92117]
- 1221 Cooper, Richard A.; Larry Boyer; David Long and Tim Askew. BIOEROSION AND SHELTER FORMATION BY THE BURBOT, *LOTA LOTA*, IN THE DEEP BASINS OF ILLINOIS. *Int. Assoc. Great Lakes Res. Conf.* 30:A-13. 1987. Abstract only. FR 33(4)  
 U.S. Under. Res. Program, Univ. Conn., Groton 06340]
- 1222 Dadswell, Michael J.; Gary D. Melvin; P. James Williams and Daphne M. Williams. INFLUENCES OF ORIGIN, LIFE HISTORY, AND CHANCE ON THE ATLANTIC COASTAL MIGRATION OF AMERICAN SHAD. *Am. Fish. Soc. Symp.* 1:313-330. 1987. FR 33(4)  
 Fish. Res. Branch, Dep. Fish. & Oceans, Biol. Stn., St. Andrews, NB, Canada  
*Alosa sapidissima*.
- 1223 Dadswell, Michael J.; Ronald J. Klauda; Christine M. Moffitt; Richard M. Williams; Roger A. Rulifson and John E. Cooper, editors. PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON COMMON STRATEGIES OF ANADROMOUS AND SEMIANADROMOUS FISHES: HELD IN BOSTON, MASSACHUSETTS, USA, MARCH 9-13, 1987. *Am. Fish. Soc. Symp.* 1:561p. 1987. FR 33(4)  
 Am. Fish. Soc., 5410 Grosvenor Ln., Ste. 110, Bethesda, MD 20814] Selected chapters are included in this issue of *Fisheries Review*.
- 1224 Debrot, Adolphe O. and Arthur A. Myrberg, Jr. INTRASPECIFIC AVOIDANCE BEHAVIOR: A PROXIMATE CAUSE FOR MIXED-SPECIES SHOALING BY JUVENILES OF A WESTERN ATLANTIC SURGEONFISH, *ACANTHURUS BAHIANUS*. *Bull. Mar. Sci.* 43(1):104-106. 1987. FR 33(4)  
 Columbia River Inter-Tribal Fish Comm., 975 S.E. Sandy Blvd., Suite 202, Portland, OR 97202
- 1225 Dempson, J. B. and A. H. Kristofferson. SPATIAL AND TEMPORAL ASPECTS OF THE OCEAN MIGRATION OF ANADROMOUS ARCTIC CHAR. *Am. Fish. Soc. Symp.* 1:357. 1987. FR 33(4)  
 Fish. Res. Branch, Dep. Fish. & Oceans, P.O. Box 5667, St. John's, NF, Canada  
*Salvelinus alpinus*.
- 1226 Dubinsky, Z. MARINE SYMBIOSES. PROCEEDINGS, FIRST EILAT SYMPOSIUM ON MARINE SYMBIOSES, JANUARY 8-13, 1987. *Symbiosis* 4:365p. 1987. From Deep-Sea Res. Part B Oceanogr. 35(7):4274. 1988. FR 33(4)



88-004227 Duffy, David C. PREDATOR-PREY INTERACTIONS BETWEEN AND BUTTERFISH. *Ornis Scand.* 19(2):160-163. 1988. FR 33(4)  
[Escuela Cienc. Ambientales, Univ. Nac., Heredia, Costa Rica] *Pepr*  
York.

88-004228 Dupuis, H. M. C. and M. H. A. Keenleyside. REPRODUCING AND NESTING MALE LONGEAR SUNFISH (*LEPOMIS MEGALOTIS PELTATA*) INFLUENCING SPAWNING SUCCESS. *Behav. Ecol. Sociobiol.* 23(2):109-114. 1988. FR 33(4)  
[Dep. Fish. & Oceans, Fish. Res. Branch, P.O. Box 5030, Moncton, N.B. E3B6]

88-004229 Empson, Perry W. and Adrian S. Meredith. DOWNSTREAM MIGRATION OF *GEOTRIA AUSTRALIS* JUVENILES IN THE LOWER WAIKATO RIVER. *Freshwater Res.* 21(4):643-644. 1987. FR 33(4)  
[Aquat. Biosci. Lab., Electricity Corp., P.O. Box 445, Hamilton, New Zealand]

88-004230 Ferreiro, Maria Jose and Uxio Labarta. [SPAWNING AREA OF THE SPRAT (*SPRATTUS SPRATTUS* LINNAEUS, 1758) IN THE RIA OF AROCA (NORTHWEST SPAIN).] *Invest. Pesq.* 51(3):339-350. 1987. In Spanish with English summary.  
[Inst. Invest. Mar., C.S.I.C., Muelle Bouzas, 6.36208 Vigo, Spain]

88-004231 Foote, Chris J. MALE MATE CHOICE IN FISHES: A REVIEW OF THE COHO SALMON. *Anim. Behav.* 36(4):1228-1230. 1988. FR 33(4)  
[Inst. Anim. Ecol., Univ. British Columbia, Vancouver, BC, Canada]

88-004232 Foster, S. A.; V. B. Garcia and M. Y. Town. CANNIBALISM IN THE COHO SALMON: AN ONTOGENETIC SHIFT IN HABITAT USE BY FRY OF THE THREESPINNED SCOTCH SALMON. *Oecologia (Berl.)* 74(4):577-585. 1988. FR 33(4)  
[Dep. Ecol. & Evol., SUNY, Stony Brook, NY 11794] *Gasterosteus aculeatus*

88-004233 Francis, Richard C. ON THE RELATIONSHIP BETWEEN SOCIAL DOMINANCE AND TERRITORY DEFENSE IN THE COHO SALMON. *Ethology* 78(3):223-237. 1988. FR 33(4)  
[Dep. Zool., Univ. Calif., Berkeley 94720]

88-004234 Fuiman, Lee A. and Paul W. Webb. ONTOGENY OF REPRODUCTIVE ACTIVITY AND PERFORMANCE IN ZEBRA DANIOS (TELEOSTEI: CYPRINIDAE). *Behav.* 36(1):250-261. 1988. FR 33(4)  
[School Nat. Resour., Univ. Mich., Ann Arbor 48109] *Brachydanio rerio*

88-004235 Galis, F. and P. W. de Jong. OPTIMAL FORAGING AND REPRODUCTIVE SELECTION BY *HAPLOCHROMIS PICEATUS*. *Oecologia (Berl.)* 75(2):133-138. 1988. FR 33(4)  
[Univ. Leiden, Dep. Organismal Biol., P.O. Box 9516, 2300 RA Leiden, The Netherlands]

88-004236 Gatz, A. J., Jr.; M. J. Sale and J. M. Loar. HABITAT SELECTION AND REPRODUCTIVE INFLUENCES OF BROWN TROUT. *Oecologia (Berl.)* 75(2):139-144. 1988. FR 33(4)  
[Dep. Biol. Sci., Ohio Wesleyan Univ., Delaware, Ohio 43019] *Salmo gairdneri*

- 04237 Chirib, Doreen M. and Doreen E. Kramer. 1982. POPULATION DENSITY AND PATCH USE BY ZEBRAFISH. *Anim. Behav.* 30:1875-1882. 1987. FR 33(4)  
 Dep. Biol. Sci., Simon Fraser Univ., Burnaby, BC, Canada V5A 1S6]
- 04238 Glova, G. J.; P. M. Sagar and C. R. Docherty. DIET FEEDING PERIODS AND HABITAT USE OF TORRENTFISH (*CHEIMARRICHTHYS FOSTERI*) IN TWO BRAIDED RIVERS IN THE SOUTH ISLAND OF NEW ZEALAND. *N.Z. J. Mar. Freshwater Res.* 21(4):555-561. 1978. FR 33(4)  
 Freshwater Fish. Cent., Minist. Agric. & Fish., P.O. Box 8324, Riccarton, Christchurch, New Zealand]
- 04239 Gomelyuk, V. E. and A. I. Markovich. [THE SPATIAL STRUCTURE OF GROUPS AND THE BEHAVIOUR OF THE ROCKFISH *SEBASTES TACZANOWSKII* IN THE FAR-EASTERN MARINE RESERVE.] *Mar. Biol. Vladivostok* 1987(5):59-64. 1987. In Russian with English summary. FR 33(4)  
 Far-East. State Mar. Reserve, Inst. Mar. Biol., Far East Sci. Cent., Acad. Sci. USSR, Vladivostok 690022, USSR]
- 04240 Gorman, Owen T. AN EXPERIMENTAL STUDY OF HABITAT USE AND DIET OF A SUB-EMBLAGE OF OZARK MINNOWS. *Ecology* 69(4):1239-1250. 1988. FR 33(4)  
 Dep. Biol., Memphis State Univ., Memphis, TN 38152] *Notropis zonatus*, *N. boleosus*, *Noconis biguttatus*, and *Campostoma olgolepis*.
- 04241 Gross, Mart R. EVOLUTION OF DIADROMY IN FISHES. *Am. Fish. Soc. Symp.* 1:1-25. 1987. FR 33(4)  
 Dep. Zool., Univ. Toronto, Toronto, ON, Canada M5S 1A1]
- 04242 Gruber, Samuel H.; Donald R. Nelson and John F. Morrissey. PATTERN OF ACTIVITY AND SPACE UTILIZATION OF LEMON SHARKS, *NEGAPRION BREVIROSTRIS*, IN A SHALLOW BAHAMIAN LAGOON. *Bull. Mar. Sci.* 43(1):61-76. 1988. FR 33(4)  
 Div. Biol. & Living Resour., Rosenstiel School Mar. & Atmos. Sci., Univ. Miami, Miami, FL 33149]
- 04243 Hamilton, Thomas R. POPULATION DYNAMICS AND AGGRESSIVE BEHAVIOR OF BLUEGILL PIES. *Trop. Fish Hobbyist* 36(10):64-68. 1988. FR 33(4)  
 Dep. Biol., *Lepomis microlophus*, *Lepomis reticulata*.
- 04244 Harvey, B. C.; R. C. Cashner and W. J. Matthews. DIFFERENTIAL EFFECTS OF HABITAT CHOICE AND SMALLMOUTH BASS ON HABITAT USE BY STONEWALLER MINNOWS IN STREAM POOLS. *J. Fish. Biol.* 33(3):481-487. 1988. FR 33(4)  
 Oak Ridge Natl. Lab., Environ. Sci. Div., Oak Ridge, TN 37831] *Micropterus salmoides*, *Notropis dolomieu*, and *Campostoma anomalum* in Oklahoma.
- 04245 Hasegawa, Eiichi; Kazumasa Yoza and Hideo Soeda. [EXPERIMENTAL STUDY AND DISCUSSION OF FRIDMAN'S THEORY IN RELATION TO THE BEHAVIOR OF GROUPS OF BLUEGILL PIES ENCOUNTERED BY THE LEADER-NET OF SET-NET.] *Nippon Suisan Gakkaishi* 54(9):975-982. 1988. In Japanese with English summ. FR 33(4)  
 Fac. Bioresour., Mie Univ., Tsu 514, Japan]
- 04246 Hastings, Phillip A. FEMALE CHOICE AND MALE REPRODUCTIVE SUCCESS IN A MONOGAMOUS FISH. *Anim. Behav.* 36:1001-1008. 1988. FR 33(4)  
 Dep. Biol., Univ. Toronto, Toronto, ON, Canada M5S 1A1]

...meley, M. C. and C. Groot. GROUT. MARINE MIGRATION /  
OCEAN-TYPE CHINOOK AND SOCKEYE SALMON. *Am. Fish. Soc. Symp.*  
33(4)

[Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nanaimo, B.C.]  
5K6] *Oncorhynchus nerka* and *O. tshawytscha*.

88-004248 Hebert, M. and Samuel I. Zeveloff. MALE PARENTAL CARE IN A  
CICHLID (*CICHLASOMA NIGROFASCIATUM*). *Encyclia* 64:142. 1988.  
33(4)

88-004249 Heggnes, Jan. EFFECT OF EXPERIMENTALLY INCREASED  
COMPETITION ON SEDENTARY ADULT BROWN TROUT (*SALMO TRUTTA*)  
STREAM HABITAT CHOICE. *Can. J. Fish. Aquat. Sci.* 45(7):1163-1170.  
with French summ. FR 33(4)

[Dep. Nat. Conserv., Agric. Univ. Norway, Box 39, 1432 As-NLH, Oslo]

88-004250 Hindar, Kjetil; Bror Jonsson; Joyce H. Andrew and  
RESOURCE UTILIZATION OF SYMPATRIC AND EXPERIMENTALLY  
CUTTHROAT TROUT AND DOLLY VARDEN CHARR. *Oecologia (Berl.)* 76:1-6.  
FR 33(4)

[Fish Res. Div., Tungasletta 2, N-7000 Trondheim, Norway]

88-004251 Hirsch, Cheryl Lynne. A QUANTITATIVE ANALYSIS OF  
FEMALE PARENTAL ROLES IN THE JACK DEMPSEY CICHLID  
(*OCTOFASCIATUM*). M.A. Thesis, Cent. Mich. Univ. 41p. 1985. From  
24(1):39. 1986. FR 33(4)

88-004252 Holbrook, Sally J. and Russell J. Schmitt. EFFECTS OF  
FORAGING BEHAVIOR: MECHANISMS ALTERING PATCH CHOICE. *J. Exp. Biol.*  
121(2):151-163. 1988. FR 33(4)

[Dep. Biol. Sci. & Coastal Res. Cent., Mar. Sci. Inst., Univ. of  
93106] *Sebastes rastrelliger*, *Paralabrax clathratus*, and *Embiotoca jacksoniana*

88-004253 Houde, Anne E. THE EFFECTS OF FEMALE CHOICE ON  
COMPETITION ON THE MATING SUCCESS OF MALE GUPPIES. *Anim. Behav.* 36:1-10.  
1988. FR 33(4)

[Biol. Dep., Princeton Univ., Princeton, NJ 08544] *Poecilia reticulata*

88-004254 Ingle, David J. THE GOLDFISH AS A RETINEX ANIMAL. *Science* 226:654-656.  
654. 1985. FR 33(4)

[Rowland Inst. Sci., Cambridge, MA 02142] *Carassius auratus*.

88-004255 Irons, Darby. BEHAVIORAL INTERACTIONS OF THE  
CHAETODON TRIFASCIALIS AT JOHNSTON ATOLL. *Pac. Sci.* 42:1-10.  
Abstract only. FR 33(4)

[Dep. Zool., Univ. Hawaii, Honolulu]

88-004256 Ishida, Kyoichi; Sachio Nagahora; Yoshihiro Inoue and  
BEHAVIOR OF ADULT CHUM SALMON *ONCORHYNCHUS KETA* HOMING  
[SANRIKU.] *Nippon Suisan Gakkaishi* 54(8):1279-1287. 1988. In Japanese  
FR 33(4)

[Iwate Prefectural Fish. Exp. Sta., Morioka, Iwate, Japan]

- 36(4):986-990. 1988. FR 33(4)  
p. Anim. Behav., Mus. Zool., Univ. Bergen, 5000 Bergen, Norway]
- 1258 Johnson, David L.; Raymond A. Boamior and William E. Lynch, Jr. SELECTED HABITAT STRUCTURE INTERESTICE SIZE BY BLUEGILLS AND LARGEMOUTH BASS. *Trans. Am. Fish. Soc.* 117(2):171-179. 1988. FR 33(4)  
School Nat. Resour., Div. Fish. & Wildl. Manage., Ohio State Univ., Columbus 43210  
*perus salmoides* and *Lepomis macrochirus* in Ohio.
- 1259 Kelley, Matthew W. CHEMOSENSORY RECOGNITION OF CONSPECIFIC PREDATED BASS JUVENILES. *Pac. Sci.* 42(1-2):123-124. 1988. Abstract only. FR 33(4)  
p. Zool., Univ. Hawaii, Honolulu]
- 1260 Kodric-Brown, Astrid. EFFECTS OF SEX-RATIO MANIPULATION ON REPRODUCTIVE SUCCESS OF MALE PUFFISII, *CYPRINUS P. SENSIIS*. *Anim. Behav.* 36(4):1136-1144. 1988. FR 33(4)  
p. Biol., Univ. N.M., Albuquerque 87131]
- 1261 Kolke, Takashi and Kanau Matsuike. RESPONSE OF A FISH SCHOOL TO DIFFERENT WAVELENGTHS OF INTERMITTENT LIGHTS AND DIFFERENT BACKGROUND LUMINANCES UNDER PROJECTED LIGHT. *Nippon Suisan Gakkaishi* 54(5):829-835. 1988. FR 33(4)  
p. Ichth. c. Blorosaur., Mie Univ., Tsu, Mie 514, Japan] *Trochurus japonicus*.
- 1262 Lovin, A. V. and V. P. Gnyubkina. [VISUALLY DETERMINED BEHAVIOUR OF PRELARVAE AND LARVAE OF MASKED GREENLING AND ATKA FISH.] *Mar. Biol.* 95(1):77-80. 1987. In Russian with English summ. FR 33(4)  
p. Karadag Dep., Inst. Biol. South. Seas, Acad. Sci. Ukrainian SSR, Karadag 33000  
] *Hexagrammos octogrammus* and *Pleurogrammus monoptyerygius*.
- 1263 Lindstrom, Kai. MALE-MALE COMPETITION FOR NEST SITES IN THE SOUTHERN POMATOSCHISTUS MINUTUS. *Oikos* 53(1):67-73. 1988. FR 33(4)  
p. Zool., Univ. Helsinki, P. Rautatiekatu 13, SF-00100 Helsinki, Finland]
- 1264 Lobb, M. Delbert III and Donald J. Orth. MICROHABITAT USE BY YOUTH CHUB *NOCOMIS PLATYRHYNCHUS* IN THE NEW RIVER, WEST VIRGINIA. *Trans. Am. Fish. Soc.* 117(1):32-40. 1988. FR 33(4)  
p. Nat. Resour., Rt. 1, Box 1A, Belleville, WV 26133]
- 1265 Magnan, Pierre. INTERACTIONS BETWEEN BROOK CHARR, *SALVELINUS FONTINALIS*, AND NONSALMONID SPECIES: ECOLOGICAL SHIFT, MORPHOLOGICAL ADAPTATION, AND THEIR IMPACT ON ZOOPLANKTON COMMUNITIES. *Can. J. Fish. Aquat. Sci.* 45:999-1009. 1988. In English with French summ. FR 33(4)  
p. Chlm.-Biol., Univ. Quebec Trois-Rivieres, C.P. 500, Trois-Rivieres, PQ, Canada  
] *Semotilus atromaculatus* and *Catostomus commersoni* in Canada.
- 1266 Magurran, Anne E. and Anthony Higham. INFORMATION TRANSFER ACROSS SHOALS UNDER PREDATOR THREAT. *Ethology* 78(2):153-158. 1988. FR 33(4)  
p. School Anim. Biol., University Coll. North Wales, Bangor, Gwynedd LL57 2UW, W. Wales  
] *perca fluviatilis* and *Esoc lucius*.

- 88-004268 McDowall, Robert M. THE OCCURRENCE AND DISTRIBUTION OF FISHES. *Am. Fish. Soc. Symp.* 1:1-13. 1987. FR 33(4)  
[Fish. Res. Div., Minist. Agric. & Fish., Christchurch, New Zealand]
- 88-004269 Mittelbach, Gary G. COMPETITION AMONG REFUGEE FISHES AND THE EFFECTS OF FISH DENSITY ON LITTORAL ZONE INVERTEBRATES. 1988. FR 33(4)  
[W. K. Kellogg Biol. Stn. & Dep. Zool., Mich. State Univ., East Lansing, Mich.]  
*Lepomis macrochirus* and *L. cyanellus* in Michigan.
- 88-004270 Mousseau, Timothy A. and Nicholas C. Collins. POLYMERASE CHAIN REACTION (PCR) ANALYSIS OF DNA TO DETERMINE ABUNDANCE IN THE SLIMY SCULPIN (*COTTUS COGNATUS*). *Can. J. Fish. Aquat. Sci.* 45:2829. 1987. In English with French summ. FR 33(4)  
[Dep. Biol., McGill Univ., 1205 Penfield Ave., Montreal, PQ, Canada]
- 88-004271 Naama, A. K. and K. A. Muhsen. FEEDING PERIODICITY OF THE CYPRINID *CARASO BARBUS LUTEUS* (HECKEL) IN THE HAMMAR MARSH, SOUTHERN IRAQ. *Indian J. Fish.* 33(3):347-350. 1987.  
[Mar. Sci. Cent., Univ. Basrah, Iraq]
- 88-004272 Northcott, S. J.; R. N. Gibson and E. Morgan. DIURNAL RHYTHM OF LOCOMOTOR ACTIVITY IN *LIPOPHRYX* SPECIES. USING CYCLES OF HYDROSTATIC PRESSURE. *J. Interdiscipl. Cycle Res.* 17:1-10. 1987. Abstract only. FR 33(4)  
[Dunstaffnage Mar. Res. Lab., Scottish Mar. Biol. Assoc., PO Box 10, PA34 4AD, Scotland]
- 88-004273 Olla, Bori L. and Michael Davis. DO SALMON NEED TO LEARN SURVIVAL SKILLS? *Underwater World* 17:1-4. 1987. FR 33(4)  
[Coop. Inst. Mar. Resour., Oreg. State Univ., Corvallis] *Ophiodon elongatus*.
- 88-004274 Parmigiani, S.; P. Torricelli and M. Lugli. INTERSPECIFIC COMPETITION BETWEEN *PADOCOBIVUS MARTENSI* (GUNTHER) (PISCES GOBIIDAE) DURING THE REPRODUCTIVE SEASON: EFFECTS OF SIZE, PRIOR RESIDENCE, AND PARENTAL CARE. *Zool. Ital.* 22(2):161-170. 1988. In English with Italian summ. FR 33(4)  
[Ist. Zool. Univ., Via Università 12, I-43100 Parma, Italy]
- 88-004275 Power, G.; M. V. Power; R. Dumas and A. Gordon. DIURNAL RHYTHM OF FEEDING BEHAVIOR OF ATLANTIC SALMON FROM RIVERS IN UNGAVA BAY, QUEBEC. *Can. J. Fish. Aquat. Sci.* 45:364-376. 1987. FR 33(4)  
[Dep. Biol., Univ. Waterloo, Waterloo, ON, Canada N2L 3G1] *Salmo gairdneri*.

7 Rahel, Frank J. and Roy A. Stein. COMPLEX PREDATOR-PREY INTERACTIONS AND PREDATOR INTIMIDATION AMONG CRAYFISH, PISCIVOROUS FISH, AND SMALL FISH. *Oecologia (Berl.)* 75(1):94-98. 1988. FR 33(4)  
Zool. & Physiol., Univ. Wyo., Laramie 82071] *Etheostoma nigrum* and *Micropterus salmoides*.

8 Randall, Robert G.; Michael C. Healey and J. Brian Dempson. VARIABILITY IN THE RESIDENCE OF FRESHWATER SALMON, TROUT, AND CHAR. *Am. Fish. Soc. Symp.* 1:27-41. 1987. FR 33(4)  
Fish. & Oceans, Gulf Fish. Cent., P.O. Box 5030 Moncton, NB, Canada E1C 0B6  
lar, *Oncorhynchus tshawytscha*, and *Salvelinus* sp.

9 Rehnberg, B. G. and R. J. F. Smith. THE INFLUENCE OF ALARM SUBSTANCE ON THE BEHAVIOUR OF ZEBRA DANIOS, *BRACHYDANIO RERIO* (CYPRINIDAE). *J. Fish Biol.* 33(1):155-163. 1988. FR 33(4)  
Biol., Univ. Saskatchewan, Saskatoon, SN, Canada S7N 0W0]

10 Rehnberg, Bradley G. and R. J. F. Smith. THE REACTION OF PEARL DANIOS, *BRACHYDANIO RERIO* (CYPRINIDAE) TO ALARM SUBSTANCE: TIME-COURSE OF BEHAVIOR, BRAIN ACTIVITY, AND STRESS PHYSIOLOGY. *Can. J. Zool.* 65(12):2916-2921. 1987. In English with French summ. FR 33(4)  
Biol., Univ. Saskatchewan, Saskatoon, SN, Canada S7N 0W0] *Semotilus margarita*.

11 Ridgway, Mark S. and J. D. McPhail. RAIDING SHOAL SIZE AND COURTSHIP DISPLAY IN MALE STICKLEBACKS (*GASTEROSTEUS*). *Can. J. Zool.* 66(1):205. 1988. In English with French summ. FR 33(4)  
Can. Fish. Stn., R.R. 4, Picton, ON, Canada K0K 2T0] *G. aculeatus*.

12 Rowland, William J. AGGRESSION VERSUS COURTSHIP IN THREESPINE STICKLEBACKS AND THE ROLE OF HABITUATION TO NEIGHBOURS. *Anim. Behav.* 36(3):348-357. 1988. FR 33(4)  
Biol., Indiana Univ., Bloomington 47405] *Gasterosteus aculeatus*.

13 Sargent, Robert Craig; Mart R. Gross and Eric P. Van Den Berghe. MALE MAINTENANCE OF COURTSHIP IN FISHES: A REPLY TO FOOTE. *Anim. Behav.* 36(4):1230-1233. 1988. FR 33(4)  
Morgan School Biol. Sci., Univ. Ky., Lexington 40506-0225] *Gasterosteus aculeatus* and *Oncorhynchus kisutch*.

14 Savitz, Jan. ANALYSES OF THE BEHAVIORAL BASES FOR LAKE MICHIGAN PERCH AND PREY SELECTION. *Int. Assoc. Great Lakes Res. Conf.* 30:A-52. 1987. Abstracts of the 30th Annual Meeting, FR 33(4)  
Dep., Loyola Univ., 6525 N. Sheridan Rd., Chicago, IL 60626] *Oncorhynchus mykiss*, *O. tshawytscha*, and *Alosa pseudoharengus*.

15 Scapini, Felicita. HEREDITY AND LEARNING IN ANIMAL ORIENTATION. *Monographs of the Society for Experimental Psychology* 22(2):203-234. 1988. In English with Italian summ. FR 33(4)

- 88-004285 CONTINUED  
 [Dip. Biol. Anim. Genet. Univ., Via Romana 17, 50125 Firenze,  
*gairdneri*, and *Oncorhynchus nerka*.
- 88-004286 Shapiro, Douglas Y. VARIATION OF GROUP COMPOSITION  
 STRUCTURE WITH GROUP SIZE IN A SEX-CHANGING FISH. *Anim.*  
 1988. FR 33(4)  
 [Dep. Mar. Sci., Univ. Puerto Rico, Mayaguez 00708] *Anthias squamipinna*
- 88-004287 Sigismondi, Linda A. and Lavern J. Weber. CHANGE IN  
 RESPONSE TIME OF JUVENILE CHINOOK SALMON EXPOSED TO  
 HANDLING STRESSES. *Trans. Am. Fish. Soc.* 117(2):196-201. 1988. FR 33(4)  
 [Dep. Nat. Sci., Salem Coll., Salem, WV 26426] *Oncorhynchus tshawytscha*
- 88-004288 Smith, Gerald R. FISH BEHAVIOR AND REWORKING OF  
 SEDIMENTS. *Int. Assoc. Great Lakes Res. Conf.* 30:A-55. 1987. Abstract  
 [Mus. Paleontol., Univ. Mich., Ann Arbor 48109]
- 88-004289 Swales, S.; F. Caron; J. R. Irvine and C. D. Leving. HABITATS OF COHO SALMON (*ONCORHYNCHUS KISUTCH*) AND OTHER  
 SALMONIDS IN THE KEOGH RIVER SYSTEM, BRITISH COLUMBIA. *Can. J. Fish. Aquat. Sci.* 45:261-271. 1988. In English with French summ. FR 33(4)  
 [Dep. Biol. Sci., Univ. Waikato, Hamilton, New Zealand] *Salmo gairdneri*,  
*Salvelinus malma*, and *Gasterosteus aculeatus* in Canada.
- 88-004290 Torricelli, P.; S. Parmigiani; M. Lugli and G. G. Agosti. AGGRESSION IN *PADOGOBIOUS MARTENSI* (GUNTHER) (PISCES GOBIIDAE) IN RELATION TO  
 SIZE AND PRIOR RESIDENCE. *Monit. Zool. Ital.* 22(2):121-131. 1988. In  
 summ. FR 33(4)  
 [Ist. Zool. Univ., Via Università 12, I-43100 Parma, Italy]
- 88-004291 Trendall, J. THE DISTRIBUTION AND DISPERSAL OF INTRODUCTION OF  
 THUMBI WEST ISLAND IN LAKE MALAWI, AFRICA. *J. Fish. Biol.* 33(3):333-344.  
 [CSIRO Div. Fish. Res., Bungalow P.O., Cairns, Qld. 4870, Australia] *joanjohnsonae*, *M. parallelus*, *Pseudotropheus microstoma*, *P. aurora*, and  
*P. lombardoi*
- 88-004292 Tulley, J. J. and F. A. Huntingford. ADDITIONAL INFORMATION ON THE  
 RELATIONSHIP BETWEEN INTRA-SPECIFIC AGGRESSION AND  
 BEHAVIOUR IN THE THREE-SPINED STICKLEBACK, *GASTEROSTEUS ACULEATUS*.  
*Ethology* 78(3):219-222. 1988. FR 33(4)  
 [Huntingford: Dep. Zool., Univ. Glasgow, Glasgow G12 8QQ, Scotland]
- 88-004293 Urban, Timothy P. and Stephen B. Brandt. RESOURCE UTILIZATION BY  
 JUVENILE SMELT (*OSMERUS MORDAX*) AND JUVENILE AUCALANUS  
 (*PSEUDOHARENGUS*) IN LAKE ONTARIO. *Int. Assoc. Great Lakes Res. Conf.* 30:A-55. 1987. Abstract  
 [SUNY-ESF, Illick Hall, Syracuse, NY 13210]

Zool., Univ. Wis., Madison 53706]

5 Wahl, David H. and Roy A. Stein. SELECTIVE PREDATION BY THREE ESOCIDAE ON PREY BEHAVIOR AND MORPHOLOGY. *Trans. Am. Fish. Soc.* 117(2):142-151. 1988. FR 33(4)

[Fish & Wildl. Res. Unit & Dep. Zool., Ohio State Univ., 1735 Neil Av., Columbus, Ohio 43210]  
6 *Ameiurus promelas*, *Dorosoma cepedianum*, *Lepomis macrochirus*, *Esox lucius*, and *Ambloplites squalirostris* in Ohio.

6 Walsh, Michael T.; Deke Bausso; Gregory D. Bossart; W. Glenn Young; David L. and Geoffrey W. Patton. RAY ENCOUNTERS AS A MORTALITY FACTOR FOR COMMON BOTTLENOSE DOLPHINS (*TURSIOPS TRUNCATUS*). *Mar. Mamm. Sci.* 4(2):101-111. 1988. FR 33(4)

[World Fla., 7007 Sea World Dr., Orlando 32821] *Dasyatis sabina* and *D. americana*.

7 Wells, Daniel. HYDROMECHANICS OF FISH MIGRATION IN VARIOUS ENVIRONMENTS. *Am. Fish. Soc. Symp.* 1:254-261. 1987. FR 33(4)

[Aeronautical Eng., Technion-Israel Inst. Technol., Haifa 32000, Israel]

#### STORY-GENERAL WORKS

18 Bagdovitz, Mark Steven. ECOLOGY AND LIFE HISTORY OF PINK SALMON (*Oncorhynchus tshawytscha*) IN SELECTED MICHIGAN TRIBUTARIES TO LAKE ST. CLAIR. M.S. Thesis, Mich. State Univ. 74p. 1985. From Masters Abstr. Int. 24(1):101-102. FR 33(4)

19 Barbour, S. E. VARIATION IN LIFE HISTORY, ECOLOGY, AND RESOURCE UTILIZATION BY ARCTIC CHAR IN SCOTLAND. *Am. Fish. Soc. Symp.* 1:557. 1987. Abstract only. FR 33(4)

[Fish. & Oceans, P.O. Box 550, Stn. M, Halifax, NS, Canada B3J 2S7] *Salvelinus*.

20 Beckley, Lynnath E. NOTES ON THE BIOLOGY OF JUVENILE SPARODON (*Sparodon*) (*PISCES: SPARIDAE*) FROM TIDAL POOLS IN THE EASTERN CAPE, SOUTH AFRICA. *S. Afr. J. Zool.* 23(1):66-68. 1988. In English with Africans summ. FR 33(4)

[Dep., Univ. Cape Town, Rondebosch 7700, South Africa]

21 Beecher, Hal A.; Eric R. Dott and Robert F. Fernau. FISH SPECIES RICHNESS IN STREAM ORDER IN WASHINGTON STATE STREAMS. *Environ. Biol. Fishes* 22(3):101-111. 1988. FR 33(4)

[Dep. Wildl., 600 N. Capitol Way, Olympia 98504] *Salmo*, *Salvelinus*, and *Cottus*.

22 Bok, A. H. LIFE HISTORY ASPECTS OF THE SOUTH AFRICAN CATADROMOUS FISH (*Myxus capensis*). *Am. Fish. Soc. Symp.* 1:552. 1987. Abstract only. FR 33(4)

[Inda Nat. Conserv. Stn., P.O. Box 12043, Amalinda, East London 5252, South Africa]



88-004303 Bowen, Charles A. II and Ralph M. Stedman. DISTRIBUTION OF BIOLOGY OF THREESPINE STICKLEBACK (*GASTEROSTEUS ACULEATUS*) IN LAKE MICHIGAN. *Int. Assoc. Great Lakes Res. Conf.* 30:A-6. 33(4)  
[U.S. Fish & Wildl. Cent., Natl. Fish. Cent.-Great Lakes, 1451 MI 48105]

88-004304 Bruton, Michael N.; Anton H. Bok and Martin T. T. STYLES OF DIADROMOUS FISHES IN INLAND WATERS OF SOUTH AFRICA. *Soc. Symp.* 1:104-121. 1987. FR 33(4)  
[J.L.B. Smith Inst. Ichthyol., Grahamstown 6140, South Africa]  
*lablata*, *A. bicolor bicolor*, *A. marmorata marmorata*, *A. mossamblica*

88-004305 Cailliet, Gregor M.; Edwin K. Osada and Michael Moser. LIFE HISTORY OF SABLEFISH IN MONTEREY BAY. *Calif. Fish Game* 74(3):132-153. 1987.  
[Moss Landing Mar. Lab., P.O. Box 450, Moss Landing, CA 95039]

88-004306 Denton, N. R. and R. van der Elst. THE SQUARET. PROFILE. *Ocean. Res. Inst. (Durban) Poster No. 3.* 1987. Presented at Oceanographic Symposium, University of Stellenbosch, Stellenbosch. 33(4)  
[Oceanogr. Res. Inst., P.O. Box 10712, Marine Parade, Durban]  
*Argyrosomus thorpei*.

88-004307 Dillinger, R. E., Jr.; J. M. Green and T. P. Birt. PRELIMINARY LIFE HISTORY STRATEGIES IN NORTHERN FISHES WITH SPECIAL REFERENCE TO SPECIES OF CISCOES. *Am. Fish. Soc. Symp.* 1:557. 1987. Abstract only.  
[Dep. Biol., Memorial Univ., St. John's, NF, Canada A1B 3X9]  
*C. autumnalis*, and *C. sardinella*.

88-004308 ErIksson, T.; L.-O. ErIksson and H. Lundqvist. ADAPTATION OF LIFE HISTORY TACTICS OF MATURE MALE BALTIC SALMON PARR OT TO SIZE AND ENVIRONMENT. *Am. Fish. Soc. Symp.* 1:236-243. 1987. FR 33(4)  
[Dep. Ecol. Zool., Univ. Umea, S-901 87 Umea, Sweden] *Salmo salar*

88-004309 Garratt, P. A. LIFE HISTORY AND STATUS OF *CHRYSOBLEPHUS PUNICEUS* (FAM. SPARIDAE). *Ocean. Res. Inst. (Durban) Poster No. 6.* 1987. Presented at Sixth National Oceanographic Symposium, University of Stellenbosch. 6-10 July 1987. FR 33(4)  
[Oceanogr. Res. Inst., P.O. Box 10712, Marine Parade, Durban 405]

88-004310 Griffin, Roland K. LIFE HISTORY, DISTRIBUTION AND MIGRATION OF BARRAMUNDI IN THE DALY RIVER, NORTHERN TERRITORY. *Am. Fish. Soc. Symp.* 1:358-363. 1987. FR 33(4)  
[Dep. Ind. & Dev., P.O. Box 4160, Darwin, N.T. 5794, Australia]

88-004311 Haro, A. J. PIGMENTATION, SIZE, AND UPSTREAM MIGRATION OF AND YOUNG AMERICAN EELS IN A COASTAL RHODE ISLAND STRAIGHT. *Soc. Symp.* 1:558. 1987. Abstract only. FR 33(4)  
[Dep. Zool., Univ. R.I., Kingston 02881]

- 4313 Hermes, R. and M. P. Olivar. LARVAL DEVELOPMENT OF *BATHYL*  
*YROGASTER* NORMAN 1930 (TELEOSTEI, BATHYLAGIDAE). *Invest. Pesq.* 51(4)  
1987. In English with Spanish summ. FR 33(4)  
[Inst. Mus., Martin-Luther-King-Platz 3, 2000 Hamburg 13, West Germany]
- 4314 Herrera, M.; J. A. Hernando; C. Fernandez-Dolgado and M. Bellido.  
GROWTH AND REPRODUCTION OF THE BARBEL, *BARBUS SCLATERI* (GUNTHER, 1868)  
IN A FIRST-ORDER STREAM IN SOUTHERN SPAIN. *J. Fish. Biol.* 33(3):371-381. 1988  
[Dep. Zool., Dep. Biol. Anim., Fac. Cienc., Univ. Cordoba, 14004 Cordoba, Spain]
- 4315 Jellyman, D. J. REVIEW OF THE MARINE LIFE HISTORY OF AUSTRALIA  
AND NEW ZEALAND SPECIES OF *ANGUILLA*. *Am. Fish. Soc. Symp.* 1:276-285. 1987. FR 33(4)  
[Fish. Res. Div., Minist. Agric. & Fish., P.O. Box 8324 Riccarton, Christchurch,  
New Zealand] *A. dieffenbachii*, *A. australis australis*, and *A. a. schmidtii*.
- 4316 Jennings, Dawn P. BIGHEAD CARP (*HYPOPTHALMICHTHYS NOBILI*)  
IN THE UNITED STATES: BIOLOGICAL SYNOPSIS. *U.S. Fish Wildl. Serv. Biol. Rep.* 88(29):47p. 1988. Available  
from U.S. Fish Wildl. Serv., Publ. Unit, Matomic Bldg., Rm. 148, Washington, DC 20240  
[U.S. Fish Wildl. Serv., Natl. Fish. Res. Cent., Gainesville, FL 32606]
- 4317 Jonsson, B.; S. Skulason; S. S. Snorrason; O. T. Sandlund; H. J. Malmgren;  
E. Jonasson; R. Gydemo and T. Lindem. LIFE HISTORY VARIATION OF POLYMORPHIC  
CHARR (*SALVELINUS ALPINUS*) IN THINGVALLAVATN, ICELAND. *Can. J. Fish. Aquat. Sci.* 45(9):1537-1547. 1988. In English with French summ. FR 33(4)  
[Norwegian Nat. Manage., Fish Res. Div., Tungasletta 2, N-7004 Trondheim, Norway]
- 4318 Karp, W. A.; P. Nealson; D. J. Lispi and Q. Ross. BEHAVIOR OF ATLANTIC  
COAST HERRING MIGRATING UPSTREAM THROUGH LOCK 2 OF THE ERIE CANAL. *Am. Fish. Soc. Symp.* 1:556. 1987. Abstract only. FR 33(4)  
[Sonics, Inc., 4520 Union Bay Place NE, Seattle, WA 98105] *Alosa aestivalis* in  
the ERIE CANAL.
- 4319 Kinzie, Robert A. III. HABITAT UTILIZATION BY HAWAIIAN STREAM FISHES:  
A REFERENCE TO COMMUNITY STRUCTURE IN OCEANIC ISLAND STREAMS. *Env. Biol. Fishes* 22(3):179-192. 1988. FR 33(4)  
[Hawaii Dept. & Water Resour. Res. Cent., Univ. Hawaii, Honolulu 96822] *Awaous melanocephalus*,  
*Sicyopterus stimpsoni*, and *Lentipes concolor*.
- 4320 Krishnamoorthi, B. and I. Jagadis. BIOLOGY AND POPULATION DYNAMICS OF THE  
GREY DOGSHARK, *RHIZOPRIONODON (RHIZOPRIONODON) ACUTUS* (RUPPELL) IN THE  
TAMIL NADU COASTAL WATERS. *Indian J. Fish.* 33(4):371-385. 1986. FR 33(4)  
[Central Mar. Fish. Res. Inst. Cent., Madras-600105, India]

88-004322 Loesch, Joseph G. OVERVIEW OF LIFE HISTORY ASPECTS  
ALEWIFE AND BLUEBACK HERRING IN FRESHWATER HABITATS. *Am.*  
1:89-103. 1987. FR 33(4)

[Inst. Mar. Sci., School Mar. Sci., Coll. William & Mary, Gloucester  
*Alosa aestivalis* and *A. pseudoharengus* in Canada and the United States.

88-004323 Low, Alice Fusfeld and Lee W. Miller. 1984 STRIPED BASS  
SURVEY IN THE SACRAMENTO-SAN JOAQUIN ESTUARY. *Interagency*  
*Sacramento-San Joaquin Estuary Tech. Rep.* 11. 41p. 1986. FR 33(4)  
*Morone saxatilis* in California.

88-004324 Macer, C. T. and M. W. Easey. THE NORTH SEA COD AND  
FISHERY. *MAFF Dir. Fish. Res. Lab. Leaflet*. No. 61. 22p. 1988. FR 33(4)  
[MAFF, Dir. Fish. Res., Fish. Lab., Lowestoft, Suffolk NR33 0HT,  
*morhua*.

88-004325 Meadows, Robin and Ivan Meadows. BREEDING THE BEAU  
GUDGEON. *Trop. Fish Hobbyist* 36(11):30-32, 35. 1988. FR 33(4)  
*Tateulidna ocellcauda*.

88-004326 Mohan, Madan; C. S. Gopinatha Pillai and K. K. Kunhikoya. E  
BLUEPULLER, *CHROMIS CAERULEUS* (CUVIER), FROM MINICOY ATOLL.  
33(4):457-470. 1986. FR 33(4)  
[Cent. Mar. Fish. Res. Inst., Cochin-682031, India]

88-004327 Moran, David. SPECIES PROFILES: LIFE HISTORIES AND E  
REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (GULF OF  
SNAPPER. *U.S. Fish Wildl. Serv. Biol. Rep.* 82(11.83):20p. 1988. Available  
& Wildl. Serv., Natl. Wetlands Res. Cent., 1010 Gause Blvd., Slidell, LA 704  
[U.S. Fish & Wildl. Serv., Natl. Wetlands. Res. Cent., 1010 Gause Blv  
70458]

88-004328 Notarbartolo-di-Sciara, Giuseppe. NATURAL HISTORY OF THE  
GENUS *MOBULA* IN THE GULF OF CALIFORNIA. *U.S. Natl. Mar. Fish. Ser.*  
86(1):45-66. 1988. FR 33(4)  
[Mus. Civ. Stor. Nat., Venezia 55, 20121 Milano, Italy]

88-004329 Orey, Cal. THE AROWANA ATTRACTION. *Trop. Fish Hobbyist*  
65. 1988. FR 33(4)  
*Osteoglossum ferrelrai* and *O. bicirrhosum*.

88-004330 Piken, Harry. *JULIDOCROMIS DICKFELDI*. *Trop. Fish Hobbyist*  
15. 1988. FR 33(4)

88-004331 Ramakrishnah, N. STUDIES ON THE FISHERY AND BIOLOGY  
*PANGASIU* (HAMILTON) OF THE NAGARJUNASAGAR RESERVOIR  
*Indian J. Fish.* 33(3):320-325. 1986.

1333 MULIS ENCRASCOLUS (LINNAEUS, 1758), WITHIN MIRA ESTUARY (PORTUGAL). *Rev. Pesq.* 51(4):581-598, 1987. In English with Spanish summ. FR 33(4)  
[p. Zool. & Antropol. Fac. Cienc., Univ. Lisboa, Bloco C2-Piso 3-Campo Grande, Lisboa, Portugal]

1334 Reid, Stewart B. BIOLOGY OF THE STRIPED CATFISH *DOPLATYSTOMA FASCIATUM* AND *P. TIGRINUM*, IN THE APURE RIVER DRAINAGE, VENEZUELA. *Pac. Sci.* 42(1-2):129, 1988. Abstract only. FR 33(4)  
[p. Oceanogr., Univ. Hawaii, Honolulu]

1335 Saitoh, Kenji; Osamu Katano and Akio Koizumi. [MOVEMENT AND SPAWNING HABITS OF SEVERAL FRESHWATER FISHES IN TEMPORARY WATERS AROUND PADDY FIELDS.] *J. Ethnobiol.* 38(1):35-47, 1988. In Japanese with English summ. FR 33(4)  
[p. Fish., Fac. Agric., Kyoto Univ., Kyoto 606, Japan]

1336 Sands, David. THE CHALLENGE OF BREEDING *BROCHIS*. *Trop. Fish Hobbyist* 36(10):22-24, 26, 1988. FR 33(4)  
[p. *B. brantsii*, *B. splendens*, *B. coeruleus*, and *B. multiradiatus*.]

1337 Seigel, Jeffrey A. AMERICAN ELASMOBRANCH SOCIETY SYMPOSIUM. *Calif. Fish. & Wildl. Serv., Nat. Hist. Mus., Los Angeles Cty., Los Angeles, CA 90007* Selected papers presented in this issue of *Fisheries Review*.

1338 Selgeby, James H. COMPARATIVE BIOLOGY OF THE SCULPINS OF THE GREAT LAKES. *J. Great Lakes Res.* 14(1):44-51, 1988. FR 33(4)  
[p. U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cent., Ashland Biol. Stn., Ashland, OR] *Cottus cognatus*, *C. ricei*, and *Myoxocephalus thompsoni*.

1339 Stauda, Heinz. A STRIKING NEW GOBY. *Trop. Fish Hobbyist* 36(10):51-52, 1988. FR 33(4)  
[p. *Phobodon* sp. and *Hypseleotris guentheri* in Vanuatu.

1340 Stevens, Donald E.; Harold K. Chadwick and Richard E. Painter. AMERICAN BASS AND STRIPED BASS IN CALIFORNIA'S SACRAMENTO-SAN JOAQUIN RIVER SYSTEM. *Fish. Soc. Symp.* 1:66-78, 1987. FR 33(4)  
[p. U.S. Fish & Game, Bay-Delta Fish. Project, Stockton, CA 95205] *Alosa sapidissima* and *Morone saxatilis*.

1341 Tachihara, Katsunori and Seiro Kimura. [SOME NOTES ON THE REPRODUCTION OF THE STRIPED AYU *PLECOGLOSSUS ALTIVELIS* IN LAKE IKEDA, KAGOSHIMA PREFECTURE.] *J. Ethnobiol.* 38(7):1107-1113, 1988. In Japanese with English summ. FR 33(4)  
[p. Lab. Fish. Environ. Sci., Fac. Agric., Kyushu Univ., Higashi, Fukuoka 812, Japan]

1342 Thorpe, J. E. SMOLTING VERSUS RESIDENCY: DEVELOPMENTAL CONFLICTS IN SALMONIDS. *Am. Fish. Soc. Symp.* 1:244-252, 1987. FR 33(4)  
[p. Freshwater Fish. Lab., Pitlochry PH16 5LB, Scotland]

88-004343 Vasilyeva, E. D. [REDESCRIPTION, MORPHO-ECOLOGICAL AND DISTRIBUTION OF *COBITIS GRANOEI* (TELEOSTEI, COBIIDAE)]. In Russian with English summ. FR 33(4) 67(7):1025-1037. 1988. [Zool. Mus., Moscow State Univ., USSR]

88-004344 Vostradovsky, J. *ALESTES IMBERI* PETERS, 1852 (FAMILIACEAE) FROM THE CAHORA BASSA RESERVOIR (ZAMBEZI, AFRICA). *Pr. Vodn. Biol. Inst. Vodnany* 1987. In English with Czech summ. FR33(4) 1987. [Vyzkumny ustav rybarsky & hydrobiol., Vodnany pracoviste Dvortanova, Czechoslovakia]

88-004345 Zama, Akira. [BIOLOGICAL OBSERVATIONS ON SEA-RUN SALMONS IN FIORDO AYSEN, SOUTHERN CHILE (PISCES: SALMONIDAE).] *Rev. Chil. Hist. Nat.* 213. 1987. In English with Spanish summ. FR 33(4) 1987. [Miyagi-ken Fish. High School, 1-24 Udagawa-cho, Ishinomaki City, Miyagi, Japan] *Salmo trutta*.

88-004346 Zhul'kov, A. I. and S. N. Nikiforov. SOME DATA ON THE BIOLOGY OF THE BITTERLING *RHODEUS SERICEUS*, OF THE TYM' RIVER. *Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 27(6):120-124. 1987. FR 33(4) 1987. [Sakhalin Sect., Pac. Ocean Sci.-Res. Inst. Fish. & Oceanogr., Sakhalin, USSR]

#### POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC.

88-004347 Balber, Stephen J. M. FACTORS AFFECTING RECRUITMENT OF MUGILIDS IN ESTUARIES AND COASTAL WATERS OF SOUTHEASTERN AUSTRALIA. *Soc. Symp.* 1:507-518. 1987. FR 33(4) 1987. [CSIRO Div. Fish. Res., P.O. Box 120, Cleveland, Qld, 4163, Australia]

88-004348 Barra, Tim M. SPECULATIONS ON THE EVOLUTION AND TACTICS OF THE AUSTRALIAN GRAYLING. *Am. Fish. Soc. Symp.* 1:33-44. 1987. [Dep. Zool., Ohio State Univ., Mansfield 44906] *Prototroctes maraena* in Barra, Tim M. (ed.), *Evolution and Tactics of the Australian Grayling*, pp. 33-44. Ohio State Univ. Press, Columbus, Ohio, 1987.

88-004349 Broad, Kelvin John. POPULATION DYNAMICS OF JUVENILE SALMONS IN THE WYE RIVER SYSTEM. *Ph.D. dissertation, Univ. Wales* 227p. 1987. From *Sci. Eng.* 49(1):21-22. 1988. FR 33(4) 1988. [*Salmo salar* in Wales.]

88-004350 Chadwick, E. Michael P. CAUSES OF VARIABLE RECRUITMENT OF ATLANTIC SALMON STOCK. *Am. Fish. Soc. Symp.* 1:390-401. 1987. FR 33(4) 1987. [Fish. Res. Branch, Gulf Region, Dep. Fish. & Oceans, Moncton, NB, Canada] *Salmo salar* in Canada.

- AMERICAN SHAD: THE CRITICAL PERIOD AND MISMATCH FOR RECRUITMENT DETERMINED. *Am. Fish. Soc. Symp.* 1:455-469. 1987. FR 33(4)  
 Environ. Prot., Mar. Fish. Office, P.O. Box 248, Waterford, CT 06385] *Alosa sapidissima* in Connecticut.
- 52 Fullerton, E. C. and Melvyn W. Odemar. DEVELOPMENT OF FISHERY MANAGEMENT STRATEGIES FOR NORTHERN ANCHOVY. In: *Allocation of Fish Resources*. John H. Crover, editor. p. 119-128. 1980. In English with French summ.  
 Fish & Game, Sacramento, CA 95814] *Engraulis mordax* in California.
- 53 Giles, Nick. NATIVE BROWN TROUT. *Game Conserv. Annu. Rev.* No. 47. 1987. FR 33(4)  
*Salmo trutta* in Great Britain.
- 54 Kocik, John F. and William W. Taylor. EFFECT OF FALL AND WINTER STREAM FLOW ON YEAR-CLASS STRENGTH OF PACIFIC SALMON EVOLUTIONARILY ADAPTED TO EARLY FRY OUTMIGRATION: A GREAT LAKES PERSPECTIVE. *Am. Fish. Soc. Symp.* 1:430-440. 1987. FR 33(4)  
 Fish. & Wildl., Mich. State Univ., East Lansing 48824] *Oncorhynchus nerka*, *O. tshawytscha*, and *O. keta*.
- 55 Lorda, Ernest and Victor A. Crocco. STOCK-RECRUITMENT RELATIONSHIPS AND COMPENSATORY MORTALITY OF AMERICAN SHAD IN THE CONNECTICUT RIVER. *Am. Fish. Soc. Symp.* 1:469-482. 1987. FR 33(4)  
 Coast Utilities Serv. Co., Environ. Programs Dep., P.O. Box 270, Hartford, CT 06105] *Alosa sapidissima* in Connecticut.
- 56 Miller, Thomas J.; Larry B. Crowder; James A. Rice and Elizabeth A. Marschall. SIZE AND RECRUITMENT MECHANISMS IN FISHES: TOWARD A CONCEPTUAL FRAMEWORK. *Can. J. Fish. Aquat. Sci.* 45(9):1657-1670. 1988. FR 33(4)  
 Zool., N.C. State Univ., Raleigh 27695-7617]
- 57 Moriarty, Christopher. FACTORS INFLUENCING RECRUITMENT OF TYPICAL SPECIES OF ANGUILLID EELS. *Am. Fish. Soc. Symp.* 1:483-491. 1987. FR 33(4)  
 Mar. Fish. Res. Cent., Abbotstown, Castleknock, Dublin 15, Ireland] *Anguilla* spp.
- 58 Peterman, Randall M. REVIEW OF THE COMPONENTS OF RECRUITMENT OF PACIFIC SALMON. *Am. Fish. Soc. Symp.* 1:417-429. 1987. FR 33(4)  
 Res. Manage. Program, Simon Fraser Univ., Burnaby, BC, Canada V5A 1S6] *Oncorhynchus* spp.
- 59 Post, John Robert. SIZE-DEPENDENT PROCESSES IN YELLOW PERCH RECRUITMENT. *Ph.D. dissertation, York Univ. (Canada)*. 1987. From Diss. Abstr. Int. J. Zool. 49(1):55-56. 1988. FR 33(4)  
*Perca flavescens*.
- 60 Rago, Paul J. and C. Phillip Goodyear. RECRUITMENT MECHANISMS OF ATLANTIC BASS AND ATLANTIC SALMON: COMPARATIVE LIABILITIES OF ALTERNATIVE MANAGEMENT SCENARIOS. *Am. Fish. Soc. Symp.* 1:402-416. 1987. FR 33(4)

- 88-004361 Rothschild, B. J. and Gerard T. DiNardo. COMPARISON OF VARIABILITY AND LIFE HISTORY DATA AMONG MARINE AND ANADROMOUS FISHES. *Fish. Soc. Symp.* 1:531-546. 1987. FR 33(4)  
[Univ. Md., Cent. Environ. & Estuarine Studies, Chesapeake Biol. Lab]
- 88-004362 Schmid, Thomas H.; Llewellyn M. Ehrhart and Franklin F. S. ON THE OCCURRENCE OF RAYS (ELASMOBRANCHII, BATOIDEA) IN THE LAGOON SYSTEM, FLORIDA. *Fla. Sci.* 51(2):121-128. 1988. FR 33(4)  
[Dep. Biol. Sci., Univ. Cent. Fla., Orlando 32816] *Dasyatis americana*, *Squalus sayi*, *Gymnura micrura*, *Rhinoptera bonasus*, *Aetobatus narlnarl*, and *Mobula*
- 88-004363 Somasekharan Nair, K. V. and A. A. Jayaprakash. A NOTE ON THE FISHERY FOR THREADFIN BREAMS OFF COCHIN. *Indian J. Fish.* 33(1):33(4)  
[Cent. Mar. Fish. Res. Inst., Cochin 682031, India] *Nemipterus mesoprlon*.
- 88-004364 Tsukamoto, Katsumi; Rikizo Ishida; Kenji Naka and T. SWITCHING OF SIZE AND MIGRATORY PATTERN IN SUCCESSIVE GENERATIONS OF LANDLOCKED AYU. *Am. Fish. Soc. Symp.* 1:492-506. 1987. FR 33(4)  
[Ocean Res. Inst., Univ. Tokyo, Nakano-ku, Tokyo, 164 Japan] *Plecoglossus*
- 88-004365 Underwood, Tevis James. DYNAMICS OF THE RAINBOW TROUT IN THE SOPKANE RIVER, IDAHO. *M.S. Thesis, Univ. Idaho* 51p. 1987. FR 33(4)  
*Salmo gairdneri*.
- 88-004366 Vaughan, Douglas S. and Joseph W. Smith. STOCK ASSESSMENT OF ATLANTIC MENHADEN, *BREVOORTIA TYRANNUS*, FISHERY. NOAA (Natl. Admin.) Tech. Rep. NMFS (Natl. Mar. Fish. Serv.) No. 63. 18p. 1988. FR 33(4)  
[Beaufort Lab., Southeast Fish. Cent., NMFS, NOAA, Beaufort, NC 28516]
- 88-004367 Vibert, Richard. [FUTURE PROSPECTS FOR THE ATLANTIC SALAR L.] In: *Allocation of Fishery Resources*. John H. Grover, ed. 1980. In French with English summ. FR 33(4)  
[Assoc. Int. Defense Saumon Atlantique, 52, Ave. Foch, 64200 Biarritz, Fr.]
- 88-004368 Vivekanandan, E. and D. B. James. POPULATION DYNAMICS OF *JAPONICUS* (BLOCH) IN THE TRAWLING GROUNDS OFF MADRAS. *Indian J. Fish.* 33(2):145-154. 1986. FR 33(4)  
[Madras Res. Cent. CMFR Inst., Madras 600105, India]
- 88-004369 Walton, Clement J. PARENT-PROGENY RELATIONSHIP FOR AN ADROMOUS POPULATION OF ANADROMOUS ALEWIVES IN A MAINE LAKE. *Am. Fish. Soc.* 454. 1987. FR 33(4)

370 West, I. F. and R. H. Goode. AERIAL COUNTS OF SPAWNING  
ON (*ONCORHYNCHUS TSHAWYTSCHIA*) ON THE RAKAIA RIVER  
ERBURY, NEW ZEALAND, 1973-76. *N.Z. J. Mar. Freshwater Res.* 21(4):563-5  
(4)  
h. Res. Cent., Minist. Agric. & Fish., P.O. Box 297, Wellington, New Zealand

371 Wickstrom, H. and O. Enderlein. NOTES ON THE OCCURRENCE  
CAL SPECIES OF *ANGUILLA* IN RESERVOIRS IN SOUTH-EASTERN SRI LANKA  
VINARY DATA ON THE POPULATIONS. *Aquacult. Fish. Manage.* 19(4):377-38  
(4)  
t. Freshwater Res., S-170 11 Drottningholm, Sweden] *A. bicolor* and *A. nebulosa*

372 Wright, Rosalind. PIKE POPULATION DYNAMICS. *Game Conserv. Ann.*  
. p. 141-144. 1987. FR 33(4)  
*Lucius* in Great Britain.

#### ING HABITS AND MOVEMENTS, FECUNDITY, ETC.

373 Baccanto, Dominic A. and David M. Reid. FECUNDITY CHANGES  
ITED WALLEYE POPULATIONS. *N. Am. J. Fish. Manage.* 8(2):199-209. 1988.  
st. Nat. Resour., Fish. Res., Walleye Unit, P.O. Box 5000, Thunder Bay, ON  
P7C 5G6] *Stizostedion vitreum* in Canada.

374 Bromage, N. R.; J. Duston and C. Randall. ENDOGENOUS CIRCADIAN  
(S) AND THEIR ENTRAINMENT BY PHOTOPERIOD IN THE TIMING OF  
DUCTION IN THE RAINBOW TROUT (*SALMO GAIIRDNERI*). *J. Interdiscipl. Cytol.*  
64-165. 1988. Abstract only. FR 33(4)  
Cult., Aston Univ., Birmingham B4 7ET, England]

375 Chapman, D. W. CRITICAL REVIEW OF VARIABLES USED TO DEFINE REDDS  
ES IN REDDS OF LARGE SALMONIDS. *Trans. Am. Fish. Soc.* 117(1):1-21. 1988.  
Chapman Consult., Inc., 3180 Airport Way, Boise, ID 83705] *Oncorhynchus stizostedion*

376 Clark, Eugenie; Joan S. Rabin and Susan Holderman. REPRODUCTIVE  
IOR AND SOCIAL ORGANIZATION IN THE SAND TILEFISH, *MALACANTHERUS*  
*Environ. Biol. Fishes* 22(4):273-286. 1988. FR 33(4)  
. Zool., Univ. Md., College Park 20742]

377 DeMartini, Edward E. SPAWNING SUCCESS OF THE MALE PLUMBERGELI  
PMAN. I. INFLUENCES OF MALE BODY SIZE AND AREA OF SPAWNING SITE  
*Environ. Biol. Fishes* 22(2):177-192. 1988. FR 33(4)  
Rev. Comm. Res. Cent., 531 Encinitas Blvd., Suite 105, Encinitas, CA 92024  
*Myoxocephalus thompsoni* in Washington.



- ...; M. MATURITY, SPAWNING AND FECUNDITY OF THE STREAKED  
 AND PALK BAY. *Indian J. Fish.* 33(3):293-319. 1986. FR 33(4)  
 [Cent. Inst. Fish. Educ., Versova, Bombay-400061, India]
- 8-004379 El Gamal, Abdel Rahman Abdel Latif. REPRODUCTIVE PERFORMANCE, GONADAL DEVELOPMENT, COLD TOLERANCE, VIABILITY AND GROWTH OF NORMALLY PIGMENTED HYBRIDS OF *TILAPIA AUREA* and *T. NILOTICA*. *Dissertation, Auburn Univ.* 126p. 1987. From Diss. Abstr. Int. B Sci. Eng. 49(2):287  
 FR 33(4)
- 3-004380 Foote, Chris J. and Peter A. Larkin. THE ROLE OF MALE CHOICE IN ANADROMOUS AND NON-ANADROMOUS SOCKEYE SALMON (*ONCORHYNCHUS NERKA*). *Behaviour* 106(1-2):43-62. 1988. In English with French  
 FR 33(4)  
 [Pac. Biol. Stn., Nanaimo, BC, Canada V9R 5K6]
- 1-004381 Foote, Chris J. MALE MATE CHOICE DEPENDENT ON MALE SIZE IN SALMON (*ONCORHYNCHUS NERKA*) IN CANADA. *Behaviour* 106(1-2):63-80. 1988. In English with French summ. FR 33(4)  
 [Pac. Biol. Stn., Nanaimo, BC, Canada V9R 5K6]
- 1-004382 Goyette, Daniel; Sylvie Guenette; Nelson Fournier; Jean Leclerc; Gilles Jean Fortin and Pierre Dumont. [SEXUAL MATURITY AND REPRODUCTIVE PERIOD OF FEMALE LAKE STURGEONS (*ACIPENSER FULVESCENS*) FROM THE SAINT LAURENT RIVER.] *Que. Minist. Chasse Pech. Rapp. Trav.* 06(02)84p. 1988. In French with English summ. FR 33(4)  
 [Dep. Sci. Biol., Univ. Quebec, C.P. 8888, Montreal, PQ, Canada H3C 3P8]
- 1-004383 Heggbergat, T. G.; T. Haukebo; J. Mork and G. Stahl. TEMPORAL AND SPATIAL SEGREGATION OF SPAWNING IN SYMPATRIC POPULATIONS OF ATLANTIC SALMON, *SALMO SALAR* L., AND BROWN TROUT, *SALMO TRUTTA* L. *J. Fish. Dir. Nat. Manage., Res. Div., Tungasletta 2, N-7004, Trondheim, Norway*  
 FR 33(4)
- 1-004384 Heinrich, J. W.; M. F. Fodale and E. L. Rice. POPULATION ESTIMATING AND SPAWNING-PHASE SEA LAMPREYS IN LAKE SUPERIOR. *Int. Assoc. Great Lakes Res.* 3:347-356. 1988. Abstract only. FR 33(4)  
 [U.S. Fish & Wildl. Serv., Marquette, MI 49855] *Petromyzon marinus*.
- 1-004385 Horns, W. H.; N. P. Holm; L. Smith and R. Horrall. LAKE TROUT SPAWNING HABITAT AND EGG DEPOSITION STUDIES ON JULIAN'S REEF, LAKE MICHIGAN. *Proc. Great Lakes Res. Conf.* 30:A-29. 1987. Abstract only. FR 33(4)  
 [Nat. Hist. Surv., P.O. Box 634, Zion, IL 60099] *Salvelinus namaycush*.
- 1-004386 Jakupsstovu, Stein Hjalti and Tora Haug. GROWTH, SEXUAL MATURATION AND SPAWNING SEASON OF ATLANTIC HALIBUT, *HIPPOGLOSSUS HIPPOGLOSSUS*, IN COASTAL WATERS. *Fish. Res.* 6(3):201-215. 1988. FR 33(4)  
 [Fishirannsóknartovan, Debesartroo, 3800 Torshavn, Faroe Islands]
- 1-004387 James, P. S. B. R. and M. Badrudeen. STUDIES ON THE MATURATION AND SPAWNING OF THE FISHES OF THE FAMILY LEICOMATIDAE. *Indian J. Fish.* 33(1):1-26. 1986. FR 33(1)  
 [Cent. Inst. Fish. Educ., Versova, Bombay-400061, India]

ADENS (CUVIER) AT PORTO NOVO. *Indian J. Fish.* 33(2):171-179. 1986.  
II. Fish., Mangalore 575002, India]

4389 Johnston, Carol E. and William S. Birkhead. SPAWNING IN  
ER. *NOTROPIS ZONISTIUS* (PISCES: CYPRINIDAE). *J. Ma. Acad. S*  
FR 33(4)

st. Faunistic Surv. & Insect Identification, Nat. Hist. Surv., 607 E  
aign, IL 61820] *Campostoma pauciradil* and *Noconis leptocephalus*.

4390 Keenleyside, Miles H. A. and Helene M. C. Dupuis. COURTSIP  
ETITION IN PINK SALMON (*ONCORHYNCHUS CORBUSCHA*). *Can. J.*  
989. In English with French summ. FR 33(4)

o. Zool., Univ. Western Ontario, London, ON, Canada N6A 5B7]

4391 Kleckner, Robert C. and James D. McCleave. THE NORTH  
ING BY ATLANTIC EELS (*ANGUILLA* SPP.) IN THE SARGASSO SEA  
THERMAL FRONTS AND SURFACE WATER MASSES. *J. Mar. Res.* 46(3)  
4)

v. Epidemiol., CB7400, Univ. N.C., Chapel Hill 27599] *A. rostrata* and

4392 Kurokawa, Tadahiko; Hiroshi Kojima and Kanji Nakajima. [M  
FIH OF HATCHERY-REARED MASU SALMON (*ONCORHYNCHUS MASO*  
do Fish Hatchery No. 42. p. 45-52. 1987. In Japanese with English sur  
:kaido Fish Hatchery, Hokkaido, Japan]

4393 Lapina, N. N. [THE BIOLOGY OF REPRODUCTION OF *ALBUR*  
FROM KOPORSKAYA GUBA OF THE GULF OF FINLAND.] *Biol.*  
47-51. 1988. In Russian with English summ. FR 33(4)

4394 Lazarus, S. and K. Nandakumaran. SOME OBSERVATIONS ON  
PAWNING BEHAVIOUR OF THE COMMON PEARLSPOT IN THE POLYET  
AT CALICUT. *Indian J. Fish.* 33(3):365-370. 1986. FR 33(4)

t. Mar. Fish. Res. Inst. Cont., Calicut, India] *Etroplus suratensis*.

4395 Li Chenghua. [A COMPARISON OF FECUNDITY OF SPRING  
ING GROUPS OF *TRICHIURUS HAUMELA* (FORSKAL) FROM THE EAST  
l. *Limnol. Sin.* 19(2):116-124. 1988. In Chinese with English summ. FF  
. Oceanol., Acad. Sinica, Qingdao, China]

4396 Lisovonko, L. A. and G. P. Zakharov. ON THE FECUNDITY O  
LASSFISH, *CHAMPSOCEPHALUS GUNNARI*, IN THE REGION OF SE  
). *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 27(6):131-134. 1987. FF  
Union Sci.-Res. Inst. Mar. Fish. & Oceanogr. -- VNIRO, Moscow, US

4397 Maddux, Henry R. and William G. Kepner. SPAWNING OF BLUEHI  
CREEK, ARIZONA (PISCES: CATOSTOMIDAE). *Southwest. Nat.*  
R 33(4)

## FISHERIES REVIEW

## SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC. (CONTINUED)

88-004397 CONTINUED

[Parks & Wildl. Dep., P.O. Box 8, Seabrook, TX 77586] *Pantosteus*

88-004398 Myrberg, Arthur A., Jr.; W. Linn Montgomery and  
 REPRODUCTIVE BEHAVIOR OF *ACANTHURUS NIGROFUSCUS* (FC  
 SURGEONFISHES (FAM. ACANTHURIDAE) OFF EILAT, ISRAEL (GU  
 SEA). *Ethology* 79(1):31-61. 1988. FR 33(4)  
 [Rosenstiel School Mar. & Atmos. Sci., Univ. Miami, 4600 Rickenba  
 FL 33149] *Ctenochaetus striatus* and *Zebrasoma xanthurum*.

88-004399 Nakashima, Brian S. REGIONAL AND TEMPORAL VARIAT  
 OF CAPELIN IN NEWFOUNDLAND WATERS. *Trans. Am. Fish. Soc.* 116  
 33(4)  
 [Sci. Branch, Dep. Fish. & Oceans, P.O. Box 5667, St. John's, N  
*Mallotus villosus*.

88-004400 Noltie, Douglas B. and Daniel R. C. Robilliard. OBS  
 SUMMER SPAWNING ACTIVITIES BY THE SEA LAMPREY, *PETROMYZO*  
 CARP RIVER, EASTERN LAKE SUPERIOR. *Can. Field-Nat.* 101(4):599-  
 [Dep. Zool., Univ. Guelph, Guelph, ON, Canada N6A 5B7]

88-004401 Pallicka, Jiri. *BARBODES ABLABES*--THE LONG-STRIPED  
*Hobbyist* 37(1):32-34. 1988. FR 33(4)

88-004402 Peck, James W. FECUNDITY OF HATCHERY AND WILD LA  
 SUPERIOR. *J. Great Lakes Res.* 14(1):9-13. 1988. FR 33(4)  
 [Marquette Fish. Stn., 488 Cherry Creek Rd., Marquette, M  
*namaycush*.

88-004403 Sargent, R. C. PATERNAL CARE AND EGG SURVIVAL BOT  
 CLUTCH SIZE IN THE FATHEAD MINNOW, *PIMEPHALES PROMELAS*. *Beh*  
 23(1):33-37. 1988. FR 33(4)  
 [Behav. & Evol. Ecol. Res. Group, T.H. Morgan School Biol. Sci., Un  
 40506-0225]

88-004404 Sikkal, Paul C. FACTORS INFLUENCING SPAWNING SITE C  
 GARIBALDI, *HYPSPYOPS RUBICUNDUS* (PISCES: POMACENTRIDAE). C  
 718. 1988. FR 33(4)  
 [Dep. Zool., Oreg. State Univ., Corvallis 97331]

88-004405 Sly, Peter G. QUALITY OF LAKE TROUT SPAWNING HAB  
*Great Lakes Res. Conf.* 30:A-55. 1987. Abstract only. FR 33(4)  
 [Natl. Water Res. Inst., CCIW, Box 5050, Burlington, ON, Canada L7  
*namaycush* in Canada.

88-004406 Stewart, K. M. CHANGES IN  
*OREOCHROMIS NILOTICUS*

1 Taylor, J. W. WATER TEMPERATURE AND VELOCITY AS DETERMINANTS OF HABITATS OF JUVENILE CHINOOK AND COHO SALMON IN A LABORATORY STREAM. *Trans. Am. Fish. Soc.* 117(1):22-28. 1988. FR 33(4)  
 Zool., Univ. British Columbia, Vancouver, BC, Canada V6T 1W5] *Oncorhynchus tshawytscha*.

2 Tyler, William A. III. SPAWNING PATTERNS IN THE HAWAIIAN SERGENT MAJORITY. *Pac. Sci.* 42(1-2):136. 1988. FR 33(4)  
 Zool., Univ. Hawaii, Honolulu]

3 Unger, L. M. and R. C. Sargent. ALLOPATERAL CARE IN THE FATHEAD MINNOW. *Behav.* 23(1):27-32. 1988. FR 33(4)  
 Biol. & Evol. Ecol. Res. Group, T.H. Morgan School Biol. Sci., Univ. of Toronto, 40506-0225]

4 Ward, G. and G. J. FitzGerald. EFFECTS OF SEX RATIO ON MALE BEHAVIOR AND REPRODUCTIVE SUCCESS IN A FIELD POPULATION OF THREESPINE STICKLEBACK. *J. Zool. (Lond.)* 215(4):371-380. 1988. FR 33(4)  
 Biol., Univ. Laval, PQ, Canada G1K 7P4]

5 WARD, G. SEASONAL AND DEPTH DISTRIBUTION, ETC. OF THE THREESPINE STICKLEBACK IN A FIELD POPULATION. *J. Zool. (Lond.)* 215(4):371-380. 1988. FR 33(4)

6 Aprahamian, M. W. AGE STRUCTURE OF EEL, *ANGUILLA ANGUILLA*, IN THE RIVER SEVERN, ENGLAND, AND THE RIVER DEE, WALES. *Fish. Manage.* 19(4):365-376. 1988. FR 33(4)  
 Tech. Unit (S.E. Dist.), Welsh Water Authority, Llandegfedd Reservoir, St. Asaph, Gwent NP4 0TA, Wales]

7 Bel'skiy, Yu. I.; E. M. Gerber; A. A. Demenin and A. M. Safronov. ON THE DISTRIBUTION OF THE DEEPWATER REDFISH, *SEBASTES MENTELE*, IN THE PELAGIC ZONE OF THE NORTH ATLANTIC. *J. Ichthyol. (Engl. Transl.)* 27(6):96-100. 1987. FR 33(4)

8 Hawkins, A. D. THE RETURN MIGRATION OF ADULT ATLANTIC SALMON IN THE RIVER DEE, SCOTLAND. *Am. Fish. Soc. Symp.* 1:558. 1987. Abstract  
 Agric. Scotland, Mar. Lab., Aberdeen AB9 8DB, Scotland] *Salmo salar*.

9 Haynes, James M. DISTRIBUTIONS AND THERMAL HABITATS OF SALMON AND THEIR PREY IN LAKE ONTARIO. *Int. Assoc. Great Lakes Res. Conf.* 30:A-27. 1987. FR 33(4)  
 Sci., SUNY, Brockport, NY 14420] *Oncorhynchus tshawytscha*, *Salmo gairdneri*, *Salvelinus namaycush*, *Osmerus mordax*, and *Alosa pseudoharengus*.

10 Hutchings, J. A. and D. W. Morris. HOW ARE ANADROMOUS SALMONIDS LINKED TO FRESHWATER RESIDENCY? *Am. Fish. Soc. Symp.* 1:550. 1987. FR 33(4)  
 Biol., Memorial Univ., St. John's, NF, Canada A1B 3X9]

- 88-004416 Kobayashi, Donald R. THE NEAR-REEF DISTRIBUTION OF LARVAE. *Pac. Sci.* 42(1-2):124-125. 1988. Abstract only. FR 33(4)  
[Dep. Oceanogr., Univ. Hawaii, Honolulu] *Psilogobius mainlandi*.
- 88-004417 Lee, Douglas S. and J. G. Weise. DISTRIBUTION OF LENTIL AND PRELIMINARY ANALYSIS OF HABITAT SELECTION IN BATTLE SUPERIOR. *Int. Assoc. Great Lakes Res. Conf.* 30:A-37. 1987. Abstract  
[Dep. Zool., Mich. State Univ., East Lansing 48824] *Petromyzon marinus*.
- 88-004418 Rulifson, Roger A. PERSPECTIVES AND NEW DIRECTIONS IN DIADROMOUS FISHES. *Am. Fish. Soc. Symp.* 1:547-549. 1987. FR 33(4)  
[Inst. Coastal Mar. Resour. & Dep. Biol., East Carolina Univ., Greenville, Ohio]
- 88-004419 Smirnov, M. V. and Yu. F. Kartavtsev. [THE DAILY CATADROMOUS MIGRATION OF CHUM AND PINK SALMON REAR HATCHERY (SOUTH-EAST SAKHALIN).] *Mar. Biol. Vladivostok* 1988. FR 33(4)  
[Group Genet. & Reprod. Salmon, Inst. Mar. Biol., Far East Branch, Vladivostok 690022, USSR] *Oncorhynchus keta* and *O. gorbuscha*.

- 88-004420 Tucker, M. J. and H. R. Burton. THE INSHORE MARINE MOLLUSCS OF THE WESTFOLD HILLS, ANTARCTICA. *Hydrobiologia* 165:129-139. 1988. FR 33(4)  
[Australian Natl. Parks & Wildl. Serv., G.P.O. Box 636, Canberra] *Pagotheria borchgrevinkii*.

- 88-004421 Van Den Avyle, Michael J. and Raymond W. Peterling. INULIN NURSERY HABITAT FOR LARVAL GIZZARD AND THREADFIN SHAD IN A STORAGE RESERVOIR. *Trans. Am. Fish. Soc.* 117(1):84-89. 1988. FR 33(4)  
[U.S. Fish & Wildl. Serv., Coop. Fish & Wildl. Res. Unit., School of Fisheries, Georgia State Univ., Athens 30602] *Dorosoma petenense*, *D. cepedianum*, *Morone chrysops* and *Pomoxis* spp. in Georgia.

#### FOODS/FEEDING

- 88-004422 Aronson, Richard B. PALATABILITY OF FIVE CARIBBEAN MOLLUSCS. *Mar. Sci.* 43(1):93-97. 1988. FR 33(4)  
[Dep. Paleobiol., Natl. Mus. Nat. Hist., Smithsonian Inst., Washington, D.C.] *Halichoeres bivittatus* and *Sparisoma* spp.
- 88-004423 Bellwood, D. R. ONTOGENETIC CHANGES IN THE DIET OF A SETTLEMENT SCARUS SPECIES (PISCES: SCARIDAE). *J. Fish Biol.* 33:1-10. 1988. FR 33(4)  
[Dep. Mar. Biol., James Cook Univ., Townsville, Qld. 4811, Australia]

- 88-004424 Brandt, Stephen B. and Robert O'Gorman. PREDATOR-PREY INTERACTIONS IN A GREAT LAKE ONTARIO. *Int. Assoc. Great Lakes Res. Conf.* 30:A-8. 1987. Abstract  
[Univ. Md., Chesapeake Biol. Lab., Solomons 20688] *Alosa pseudoharengus* and *A. sapidissima*.

44426 Carroll, Janet R. POPULATION GROWTH OF THE DOUBLE-CRE  
MORANT (*PHALACROCORAX AURITUS*) AND ITS POTENTIAL FOR AFFECTING S  
ERIES IN EASTERN LAKE ONTARIO. *N.Y. State Dep. Environ. Conserv.* 12p. 198

iv. Fish & Wildl. Nongame Unit, Wildl. Resour. Cent., Delmar, NY 12054]

44427 Cochran, Philip A.; David M. Lodge; James R. Hodgson and Paul G. Kn  
S OF SYNTOPIC FINESCALE DACE, *PHOXINUS NEOGAEUS*, AND NORTH  
BELLY DACE, *PHOXINUS EOS*: A REFLECTION OF TROPHIC MORPHOLOGY. *Env  
Fishes* 22(3):235-240. 1988. FR 33(4)

iv. Nat. Sci., St. Norbert Coll., De Pere, WI 54115]

44428 Collins, Hollie L.; David J. Conner; James H. Selgeby and Charles R. Br  
D OF PREDACEOUS SALMONIDS IN LAKE SUPERIOR, 1982-86. *Int. Assoc. Great  
Conf.* 30:A-12. 1987. Abstract only. FR 33(4)

ep. Biol., Univ. Minn., Duluth 55812] *Salmo trutta*, *S. gairdneri*, *Salve  
ocush*, *Oncorhynchus kisutch*, and *O. tshawytscha*.

44429 Diana, James S. THE DIET OF SALMONIDS IN WESTERN LAKE HURON.  
*Great Lakes Res. Conf.* 30:A-15. 1988. Abstract only. FR 33(4)

chool Nat. Resour., Univ. Mich., Ann Arbor 48109] *Oncorhynchus tshawytscha*  
*ch*, *O. gorbuscha*, *Salvelinus namaycush*, and *Salmo gairdneri*.

44430 Diehl, Sebastian. FORAGING EFFICIENCY OF THREE FRESHWATER FIS  
CTS OF STRUCTURAL COMPLEXITY AND LIGHT. *Oikos* 53(2):207-214. 1988. FR 3

sh. Ecol. Res. Group, Dep. Ecol., Limnol., P.O. Box 65, S-221 00 Lund, Swe  
*fluvlatilis*, *Abrams broma*, and *Rutilus rutilus* in Sweden.

44431 Dorman, J. A. DIET OF THE GARFISH, *BELONE BELONE* (L.), I  
COURTMACSHERRY BAY, IRELAND. *J. Fish. Biol.* 33(3):339-346. 1988. FR 33(4)

o Courtmacsherry Shark & Deep Sea Angling Cent., Courtmacsherry, Co. C  
nd]

44432 Eck, Gary and L. Wells. SEASONAL VERTICAL DISTRIBUTION AND P  
PTS OF SALMONINES IN S.E. LAKE MICHIGAN. *Int. Assoc. Great Lakes Res.*  
-17. 1987. Abstract only. FR 33(4)

.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green Rd., Ann A  
8105] *Salmo gairdneri*, *Oncorhynchus kisutch*, *O. tshawytscha*, *S. trutta*, *Salve  
ycush*, *Alosa pseudoharengus*, and *Coregonus hoyi*.

44433 Henry, M. G. and J. F. Savino. AN EXAMINATION OF LAKE TROUT F  
H A PREDATOR AND PREY PERSPECTIVE. *Int. Assoc. Great Lakes Res. Conf.* 3  
1987. Abstract only. FR 33(4)

.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green Rd., Ann A  
8105] *Salvelinus namaycush*.

88-004434 Holey, Mark E. DIET OF NEARSHORE AND OFFSHORE STOCK IN LAKE MICHIGAN, 1985 AND 1986. *Int. Assoc. Great Lakes Res. Conf.* Abstract only. FR 33(4)  
[Dep. Nat. Resour., 107 N. 1st Pl., Sturgeon Bay, WI 54235] *Salvelinus namaycush* and *Lota lota*.

88-004435 Hughes, Donald N. and N. Robert Payne. INCREASED ABUNDANCE IN LAKE HURON, AND IMPLICATIONS FOR LAKE TROUT REHABILITATION. *Great Lakes Res. Conf.* 30:A-30. 1987. Abstract only. FR 33(4)  
[Minist. Nat. Resour., 611 Ninth Ave. E., Owen Sound, ON, Canada]

88-004436 Jana, B. B. and Rina Chakrabarti. SOME FACTORS AFFECTING FEEDING OPTIMA IN CARP FINGERLINGS. *Arch. Hydrobiol.* 113(1):1-10. English. FR 33(4)  
[Fish. & Limnol. Lab., Dep. Zool., Univ. Kalyani, Kalyani 741235, West Bengal, India] *Catla catla*, *Cirrhinus mrigala*, *Cyprinus carpio*, and *Oreochromis mossambicus*.

88-004437 Janssen, John; Jan Savitz; Charles Nutting and Richard J. Rasmussen. SOUTHWEST LAKE MICHIGAN SALMONINES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-34. 1987. Abstract only. FR 33(4)  
[Biol. Dep., Loyola Univ., Chicago, IL 60626] *Oncorhynchus kisutch*, *gorbuscha*, *Salvelinus namaycush*, *Salmo gairdneri*, *S. trutta*, *Alosa pseudoharengus*, and *Perca flavescens*.

88-004438 Jude, David J. LATE FALL THROUGH SPRING AND JUVENILE MICHIGAN SALMONINES, 1973-1982. *Int. Assoc. Great Lakes Res. Conf.* Abstract only. FR 33(4)  
[Great Lakes Res. Div., Univ. Mich., Ann Arbor 48109] *Salmo gairdneri*, *Oncorhynchus kisutch*, *Osmerus mordax*, and *Alosa pseudoharengus*.

88-004439 Kerfoot, W. Charles. INFLUENCE OF FISH ON BRANCHIOPOD POPULATIONS IN LAKE MICHIGAN. *Int. Assoc. Great Lakes Res. Conf.* 30:A-34. 1987. Abstract only. FR 33(4)  
[Great Lakes Res. Div. & Dep. Biol., Univ. Mich., Ann Arbor 48109]

88-004440 Kevern, Niles R. and Robert Elliott. FEEDING HABITS OF SALMONINES IN EASTERN LAKE MICHIGAN. *Int. Assoc. Great Lakes Res. Conf.* Abstract only. FR 33(4)  
[Dep. Fish & Wildl., Mich. State Univ., East Lansing 48824] *Oncorhynchus kisutch*, *Salvelinus namaycush*, *Salmo gairdneri*, *S. trutta*, *Alosa pseudoharengus*, and *Perca flavescens*.

88-004441 Kihara, Kohel and Allen M. Shimada. PREY-PREDATOR INTERACTIONS BETWEEN WALLEYE POLLOCK *Theragra chalcogramma* AND WATER TEMPERATURE IN THE KAMOMOTO BAY. *Suisan Gakkaiishi* 54(7):1131-1135. 1988. FR 33(4)  
[Tokyo Univ. Fish., Konan, Minato, Tokyo 108, Japan]

88-004442 Lundberg, John G.; William M. Lewis, Jr.; James F. Saunders and Mago-Leccia. A MAJOR FOOD WEB COMPONENT IN THE ORINOCO FISH ASSEMBLY: EVIDENCE FROM PLANKTIVOROUS ELECTRIC FISHES. *Science* 237(4810):1131-1135. 1987. FR 33(4)  
[Dep. Zool., Duke Univ., Durham, NC 27708]

- 444 Y PERCH GROWTH AND SURVIVAL. *Int. Assoc. Great Lakes Res. Conf.* 30:A-abstract only. FR 33(4)  
 Y-ESF, Illick Hall, Syracuse, NY 13210] *Alosa pseudoharengus* and *Perca flavescens*
- 444 McComish, T. S. SALMONID FOOD HABIT CHANGES IN INDIANA WATERS OF MICHIGAN COMPARING THE EARLY 1970'S WITH 1984-86. *Int. Assoc. Great Lakes Res. Conf.* 30:A-42. 1987. Abstract only. FR 33(4)  
 . Biol., Ball State Univ., Muncie, IN 47306] *Oncorhynchus kisutch*, *O. tshawytscha*, *Salvelinus namaycush*, *Alosa pseudoharengus*, *Perca flavescens*, and *Osmerus mordax*.
- 445 McGovern, John C. and John E. Olney. POTENTIAL PREDATION BY FISH AND INVERTEBRATES ON EARLY LIFE HISTORY STAGES OF STRIPED BASS IN THE PAMUNK RIVER, VIRGINIA. *Trans. Am. Fish. Soc.* 117(2):152-161. 1988. FR 33(4)  
 . Mar. Sci., Coll. William & Mary, Gloucester Point, VA 23062] *Morone saxatilis*, *A. analostanus*, *N. hudsonius*, *Etheostoma olmsted*, *M. americana*, *Lepomis gibbosus*, *L. gibbosus*, *Ictalurus punctatus*, and *I. catus*.
- 446 Meyer, Axel. INFLUENCE OF AGE AND SIZE ON THE RESPONSE TO NOVEL FOOD BY FRY OF THE CICHLID FISH *CICHLASOMA MANAGUENSE* (PISCES: CICHLIDAE). *Zool. & Mus. Vertebr. Zool., Univ. Calif., Berkeley* 94720] *Zool.* 78(3):199-208. 1988. FR 33(4)
- 447 Montevecchi, W. A.; V. L. Birt and D. K. Cairns. DIETARY CHANGES ASSOCIATED WITH LOCAL FISHERIES FAILURES. *Biol. Oceanogr.* 5(3):153-168. 1988. FR 33(4)  
 . Psychol., Memorial Univ. Newfoundland, St. John's, NF, Canada A1B 3X7] *Scorpaenopsis diabolus*.
- 448 Naud, Marc and Pierre Magnan. DIEL ONSHORE-OFFSHORE MIGRATIONS OF THE BERN REDBELLY DACE, *PHOXINUS EOS* (COPE), IN RELATION TO PRODUCTION AND DISTRIBUTION IN A SMALL OLIGOTROPHIC LAKE. *Can. J. Zool.* 66(6):1249-1253. 1988. FR 33(4)  
 . Zool. with French summ. FR 33(4)  
 . Dep. Chim.-Biol., Univ. Quebec, C.P. 500, Trois-Rivieres, PQ, Canada C1A 0A4
- 449 Palmer, Margaret A. EPIBENTHIC PREDATORS AND MARINE MEIOFAUNA: EVALUATING PREDATION, DISTURBANCE, AND HYDRODYNAMIC EFFECTS. *Ecology* 69:1251-1259. 1988. FR 33(4)  
 . Zool., Univ. Md., College Park 20742] *Lelostomus xanthurus* in South Carolina.
- 450 Parkhurst, James A. and Robert P. Brooks. AMERICAN KESTRELS EAT TREE TOADS AND BIRDS. *J. Field Ornithol.* 59(3):286-287. 1988. In English with Spanish summ.  
 . Zool. For. Resour., Pa. State Univ., University Park 16802] *Solvellnus fontinalis* in Pennsylvania.
- 451 Pomeroy, Patrick P. THE FOOD AND FEEDING OF POWAN COREGONIN FISHES (*COREGONUS RETUS* (L.)) (SALMONIDAE: COREGONINAE) IN TWO SCOTTISH LOCHS. *Ph.D. Thesis, Univ. St. Andrews (England)* 358p. 1987. From Diss. Abstr. Int. B Sci. E 18:332. 1988. FR 33(4)



88-004452 Ritchie, Beverlee J. and Peter J. Colby. EVEN-ODD YEAR WALLEYE YEAR-CLASS STRENGTH RELATED TO MAYFLY PRODUCT. *Manag.* 8(2):210-215. 1988. FR 33(4)

[Minist. Nat. Resour., Nipigon, ON, Canada POT 1G0] *Stizostedion*

88-004453 Safina, Carl. ECOLOGICAL INTERACTIONS AMONG PR AND COMMON TERNS IN A COASTAL ATLANTIC SYSTEM. Ph.D. diss. N.J. - N.B. 232p. 1987. From Diss. Abstr. Int. B Sci. Eng. 49(1):32.

*Pomatomus saltatrix*.

88-004454 Schlosser, Isaac J. PREDATION RATES AND THE BEHAVIOR OF ADULT BRASSY MINNOWS (*HYBOGNATHUS HANKINSONI*) TO SMALLMOUTH BASS PREDATORS. *Copeia* 1988(3):691-698. 1988. FR 33(4)

[Dep. Biol., Box 8238, University Station, Grand Forks, ND] *Micropterus dolomieu* and *Micropterus salmoides*.

88-004455 Schofield, K.; C. R. Townsend and A. G. Hildrew. PREDATION BY A COMMUNITY OF A HEADWATER STREAM. *Freshwater Biol.* 20(1):85-93. 1987. FR 33(4)

[School Biol. Sci., Univ. East Anglia, Norwich NR4 7TJ, England]

88-004456 Sheridan, Mark F. and Donald C. Tarter. FOOD HABITS OF THE BROWN DRUM, *APLODINOTUS GRUNNIENS* (RAFINESQUE) (PISCES: SCIAENIDAE) IN GALLIPOLIS LOCKS AND DAM, OHIO RIVER. *Proc. W.Va. Acad. Sci.* 1987. FR 33(4)

[Dep. Biol. Sci., Marshall Univ., Huntington, WV 25701] *Dorosoma cepedianum* and *Notropis atherinoides*.

88-004457 Spitznagel, Thomas Edward. PREY AVOIDANCE IN THE GROUND SQUID, *TELEUTHEROIDEA*. M.S. Thesis, Adelphi Univ. 36p. 1985. From Masters Abstracts Int. FR 33(4)

88-004458 Stewart, D. J.; J. M. Hagar and J. F. Kitchell. DIET AND SALMONINE PREDATION IN WESTERN LAKE MICHIGAN. *Int. Assoc. Great Lakes Res.* 30:A-56. 1987. Abstract only. FR 33(4)

[Cent. Limnol., Univ. Wis., Madison 53706] *Oncorhynchus ktsutch*, *Pseudoharengus*, *Perca flavescens*, and *Coregonus hoyi*.

88-004459 Tandel, S. S.; R. P. Athalye and K. S. Gokhale. ON THE DIET AND IN FOOD HABIT OF *MUGIL CEPHALUS* OF THE THANA CREEK. *Ind. J. Fish.* 27:6. 1986. FR 33(4)

[B. N. Bandodkar Coll. Sci., Thane, India]

88-004460 Timmerman, Arthur J. VARIATION IN DIET AND GROWTH OF SALMONINE IN THE CANADIAN WATERS OF THE CENTRAL BASIN OF LAKE ERIE. *Great Lakes Res. Conf.* 30:A-59. 1987. Abstract only. FR 33(4)

[Ontario MNR, Wheatley, ON, Canada NOP 2P0] *Osmerus mordax*, *Pseudoharengus* spp. and *Oncorhynchus ktsutch*.

04461 Timola, Osmo. DIET OF THE FOURHORN SCULPIN, *MYOXOCEPHALUS DRICORNIS*, AMONG THE INNERMOST ISLANDS AND IN THE OPEN SEA IN THE FINNISH BAY. *Bothnian Bay Rep.* 4:3-13. 1986. FR 33(4)  
[Finnish Res. Stu., Univ. Oulu, SF-90570 Oulu, Finland]

04462 Victor, Reginald and Christopher B. Ndome. FORAGING SITE SELECTION OF A TYPICAL LARVIVOROUS CYPRINODONT, *EPIPLATYS SENEGALENSIS* (STEINDACHNER) IN A TROPICAL RIVER. *Hydrobiol.* 113(1):113-119. 1988. In English FR 33(4)  
[Dep. Zool., Univ. Benin, Benin City, Nigeria]

04463 Webber, R. A.; M. E. Rau and D. J. Lewis. THE EFFECTS OF *PLAGIORCHIS* (TREMATODA: PLAGIORCHIIDAE) METACERCARIAE ON THE SUSCEPTIBILITY OF *AEGYPTI* LARVAE TO PREDATION BY GUPPIES (*POECILIA RETICULATA*) AND MOUNTAIN VOLES (*MICROTUS PENNSYLVANICUS*). *Can. J. Zool.* 65(10):2346-2348. 1987. In English with French summ. FR 33(4)  
[Dep. Zool., Inst. Parasitol., McGill Univ., Macdonald Coll., 21 111 Lakeshore Rd., Ste. 100, Steeles Ave. E., Mississauga, Ontario, Canada M9X 1C0]

04464 Yager, Jill and Dennis Williams. PREDATION BY GRAY SNAPPER ON *LAGUNA* LARVAE IN THE BAHAMAS. *Bull. Mar. Sci.* 43(1):102-103. 1988. FR 33(4)  
[Dep. Zool. Sci. Dep., Old Dominion Univ., Norfolk, VA 23508] *Lutjanus griseus*.

#### AND GROWTH

04465 Al-Absy, Ahmad H. and Kenneth D. Carlander. CRITERIA FOR SELECTING SAMPLING SITES IN GROWTH STUDIES OF YELLOW PERCH. *Trans. Am. Fish. Soc.* 117(2):209-212. 1988. FR 33(4)  
[Dep. Biol. Sci., Yarmouk Univ., Irbid, Jordan] *Perca flavescens*.

04466 Apperson, Kimberly A. THE INFLUENCE OF DIET ON GROWTH OF *WALLEYE* (YELLOW PERCH) IN NORTHERN IDAHO: A COMPARATIVE STUDY. M.S. Thesis, Univ. Idaho 77p. 1987. FR 33(4)

04467 Barber, Willard E. and Gordon A. McFarlane. EVALUATION OF TECHNIQUES TO AGE ARCTIC CHAR FROM ALASKAN AND CANADIAN WATERS. *Trans. Am. Fish. Soc.* 116(6):874-881. 1987. FR 33(4)  
[School Fish. & Ocean Sci., Univ. Alaska, Fairbanks 99775] *Salvelinus alpinus*.

04468 Beamish, F. W. H. and T. E. Medland. AGE DETERMINATION FOR LAMPREY IN THE GREAT LAKES. *Trans. Am. Fish. Soc.* 117(1):63-71. 1988. FR 33(4)  
[Dep. Zool. & Group Advancement Fish Studies, Univ. Guelph, Guelph, ON, Canada N1G 2W1] *Ichthyomyzon gagel*, *Petromyzon marinus*, and *Lampetra appendix*.

04469 Bhattacharjee, P. C. and M. Dasgupta. SOME OBSERVATIONS ON THE GROWTH AND FEEDING HABITS OF *ASPIDOVARIA MORAR* (HAM.) FROM RIVER BRAHMAPUTRA, ASSAM (INDIA). *Mus. Bocage Nova Ser.* 1(11):197-203. 1988. In English with French summ. FR 33(4)  
[Anim. Ecol. Lab., Dep. Zool., Gauhati Univ., Gauhati-781 014, India]

88-004471 Campton, D. E. and G. A. E. Gall. EFFECT OF INDIAN REARING ON AGE AND SIZE AT MATURITY OF MALE MOSQUITOFISH, *J. Fish Biol.* 33(2):203-212. 1988. FR 33(4)  
[Dep. Fish. Aquacult., Univ. Fla., 7922 N.W. 71st St., Gainesville 32608]

88-004472 Cowx, I. G. DISTRIBUTION AND VARIATION IN THE RUTILUS RUTILUS (L.), AND DACE, *LEUCISCUS LEUCISCUS* CATCHMENT IN SOUTH-WEST ENGLAND. *J. Fish Biol.* 33(1):59-72. 1988.  
[Humberside Coll. Higher Education, Inst. Fish. Studies, Cottingham Road, Cottingham, East Yorkshire YO21 2JL, England]

88-004473 Johal, M. S. and K. K. Tandon. PHENOMENON OF GROWTH OF *CYPRINUS CARPIO*. *Indian J. Ecol.* 13(2):350-352. 1986. FR 33(4)  
[Dep. Zool., S.G.N. Khalsa Coll., Sri Ganganagar 335001, India]

88-004474 Lobon-Cervia, Javier and Adolfo De Sostoa. [GROWTH OF *CEPHALUS PYRENAICUS* GUNTHER, 1862] IN THE JARAMA RIVER (NORTHWESTERN SPAIN). *Donana Acta Vertebr.* 14:41-51. 1987. In Spanish. FR 33(4)  
[Mus. Nac. Cienc. Nat., C.S.I.C. Jose Gutierrez Abascal, 2. 28006 Madrid, Spain]

88-004475 Martin, Linda K. and Gregor M. Cailliet. AGE AND GROWTH OF THE BAT RAY, *MYLIOBATIS CALIFORNICA* GILL, IN CENTRAL CALIFORNIA. *Environ. Biol. Fish.* 1988(3):762-773. 1988. FR 33(4)  
[Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93940]

88-004476 Menon, N. Gopinatha. AGE AND GROWTH OF THE *TACHYSURUS THALASSINUS* (RUPPELL) FROM MANDAPAM WATER TOWER. *Indian J. Ecol.* 33(4):413-425. 1986. FR 33(4)  
[Cent. Mar. Fish. Res. Inst., Cochin-682031, India]

88-004477 Mosegaard, Henrik; Henrik Svedang and Kjell Taberner. SOMATIC AND OTOLITH GROWTH RATES IN ARCTIC CHAR (*SALVELINUS ALPINUS*) IN RELATION TO TEMPERATURE. EFFECT OF DIFFERENCES IN TEMPERATURE RESPONSE. *Can. J. Fish. Aquat. Sci.* 45(9):1514-1524. 1988. In English with French summ. FR 33(4)  
[Inst. Limnol., Box 557, S-75122 Uppsala, Sweden]

88-004478 Munekiyo, Masahiro and Akihiko Kuwahara. [AGE AND GROWTH OF *MYXODONTOMUS* FISH IN THE WESTERN WAKASA BAY.] *Nippon Suisan Gakkaishi* 54(1):1-6. 1988. In Japanese with English summ. FR 33(4)  
[Kyoto Inst. Oceanic & Fish. Sci., Miyazu, Kyoto 626, Japan]

88-004479 Murty, V. Sriramachandra. GROWTH AND YIELD PER FISH OF *JOHNNIUS CARUTTA* BLOCH IN THE TRAWLING GROUNDS OFF COAST OF ANDHRA PRADESH. *Indian J. Ecol.* 33(2):163-170. 1986. FR 33(4)  
[Cent. Mar. Fish. Res. Inst. Cent., Kakinada, India]

ND GROWTH (CONTINUED)

480 Nagoshi, Makoto and Kimhiro Yuba. [VARIATION OF INDIVIDUAL FISH SIZE  
ION TO POPULATION DENSITY OF SAND EEL *AMMODYTES PERSONATUS* IN  
*Nippon Suisan Gakkaishi* 54(6):913-917. 1988. In Japanese with English summ.

. Sci., Nara Women's Univ., Nara 630, Japan]

481 Prakash, Shree and R. A. Gupta. STUDIES ON THE COMPARATIVE GROWTH  
S OF THREE MAJOR CARPS OF THE GOVINDGARH LAKE. *Indian J. Fish.* 33(1):45-  
FR 33(4)

nt. Inland Fish. Res. Inst., Allahabad 211002, India] *Catla catla*, *Labeo rohita*,  
*no mrigala* in India.

482 Rao, D. Manikyala and K. Srinivasa Rao. STUDIES ON THE  
MINATION AND GROWTH OF *NEMIPTERUS JAPONICUS* (BLOCH)  
SHAPATNAM. *Indian J. Fish.* 33(4):426-439. 1986. FR 33(4)

p. Zool., A.N.R. Coll., Guduwada 521301, India]

483 Soni, V. C. and Benson George. AGE DETERMINATION AND LENGTH-WEIGHT  
TIONSHIP IN THE MUDSKIPPER *BOLEOPHTHALMUS DENTATUS*. *Indian J. F.*  
231-234. 1986. FR 33(4)

p. Biosci., Saurashtra Univ., Rajkot 5, India]

484 Vollestad, L. A. and T. F. Naesje. READING OTOLITHS OF EELS, *ANGUILLA*  
*ULLA* (L.), OF KNOWN AGE FROM KOLDERVEEN, THE NETHERLANDS. *Aquac.*  
*Manage.* 19(4):387-391. 1988. FR 33(4)

fold Cty. Environ. Admin., P.O. Box 325, N-1051 Moss, Norway]

GRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC.

485 Almeida, Armando J. [THE PRESENCE OF *SYNGNATHUS ROSTELLATUS*  
*TRACHUS ARGENTATUS* AND *SPHOEROIDES SPENGLERI* ON THE COAST  
UGAL.] *Cienc. Biol. Ecol. Syst.* 6(1/2):1-7. 1986. In French with English summ.

p. Zool. & Anthropol., Fac. Cienc. Lisboa, Rua Escola Politecnica, 58 1200 Lisboa  
gal]

486 Beckley, Lynnath Elizabeth. COASTAL ZONE UTILIZATION BY JUVENILE  
THE EASTERN CAPE, SOUTH AFRICA. *Ph.D. dissertation, Univ. Cape Town* (S  
1985. From Diss. Abstr. Int. B Sci. Eng. 49(2):330. 1988. FR 33(4)

487 Campos, Jorge A. [DISCARDED SHRIMP BY-CATCH IN THE PACIFIC OF CO  
] *Rev. Biol. Trop.* 34(2):185-197. 1986. In Spanish with English summ. FR 33(4)  
nt. Invest. Cienc. Mar. & Limnol. (CIMAR) & Escuela Biol., Univ. Costa Rica, C

488 Cowan, James H., Jr. and Richard F. Shaw. THE DISTRIBUTION  
NDANCE AND TRANSPORT OF LARVAL SCIAENIDS COLLECTED DURING WINTER

88-004489 Crossman, E. J.; S. J. Nepszy and P. Krause. THE FISH CARP, *CTENOPHARYNGODON IDELLA*, IN CANADIAN WATERS. *Can. J. Fish. Aquat. Sci.* 44(4):584-586. 1987. FR 33(4)  
[Dep. Ichthyol. & Herpetol., Royal Ontario Mus., Toronto, ON, Canada]

88-004490 Ellis, Lloyd B.; Jeffrey G. Landesman; Stanford L. Zambrano. SECOND RECORD OF *CUBICEPS PARADOXUS* AND ANOTHER FROM CALIFORNIA. *Calif. Fish Game* 74(3):174-176. 1988. FR 33(4)  
[Cabrillo Mar. Mus., 3720 Stephen White Dr., San Pedro, CA 90731]

88-004491 Guzman Arroyo, Manuel and Jesus O. Lopez Ramirez. RECORDINGS OF SAILFISH JUVENILES (*ISTIOPHORUS PLATYCEPHALUS* NODDER, 1791), (PISCES, ISTIOPHORIDAE), ON THE COAST OF MICHHOACAN, SOUTHERN MEXICAN PACIFIC. *Clenc. Mar. (Mex.)* 1(1):1-4. 1988. FR 33(4)  
Spanish and English. FR 33(4)  
[Univ. Nac. Autonoma Mex., Inst. Cienc. Mar. & Limnol., Apdo. 04510, D.F., Mexico]

88-004492 Kajihara, Takeshi. DISTRIBUTION OF *ANGUILLA JAPONICA* IN THE WESTERN PACIFIC DURING SEPTEMBER 1986. *Nippon Suisan Gakkaishi* 52(10):1453-1456. 1986. FR 33(4)  
In English. FR 33(4)  
[Environ. Biol. Res. Cent. Co. Ltd., Nakameguro, Meguro, Tokyo]

88-004493 Keith, James H. DISTRIBUTION OF NORTHERN CALIFORNIA *SPELAEA* DEKAY, IN INDIANA AND KENTUCKY AND RECOMMENDATIONS FOR PROTECTION. *Nat. Areas J.* 8(2):69-79. 1988. FR 33(4)  
[Geosci. Res. Assoc., Inc., 627 N. Morton St., Bloomington, IN 47404]

88-004494 Lea, Robert N. FAMILY HIMANTOLOPHIDAE ADDED TO THE LIST OF THE TEMPERATE EASTERN NORTH PACIFIC. *Calif. Fish Game* 74(3):174-176. 1988. FR 33(4)  
[Mar. Resour. Div., Dep. Fish & Game, Mar. Resour. Lab.-Grass Valley, CA 95940]

88-004495 Lipford, Michael L.; Garrie D. Rouse and Christopher J. Rouse. VIRGINIA NATURAL HERITAGE PROGRAM: MONITORING RARE SPECIES AND COMMUNITIES. *Va. J. Sci.* 38(4):389-398. 1987. FR 33(4)  
[Nat. Heritage Program, Dep. Conserv. & Hist. Resour., 1114 Washington Square, Richmond, VA 23219]

88-004496 Loch, John J.; Steven A. Leider; Mark W. Chilcote; Randy Johnson. DIFFERENCES IN YIELD, EMIGRATION-TIMING, SIZE, AND SEX RATIO OF JUVENILE STEELHEAD FROM TWO SMALL WESTERN WASHINGTON RIVERS. *Calif. Fish Game* 74(2):106-118. 1988. FR 33(4)  
[Fish. Manage. Div., Wash. Dep. Wildl., 600 N. Capitol Way, Olympia, WA 98501]

88-004497 Loeb, Valerie J. and Omar Rojas. INTERANNUAL VARIATION IN THE ICHTHYOPLANKTON COMPOSITION AND ABUNDANCE RELATIONS IN THE SAN FRANCISCO BAY. *U.S. Natl. Mar. Fish. Serv. Fish. Bull.* 86(1):1-24. 1988.

88-004508 Tabeta, Osamu and Noritaka Mochioka. ANGUILLID LEPTOCEPHALUS IN THE WATERS SOUTH OF OKINAWA AND EAST OF TAIWAN AND IZON PACIFIC, IN 1986. *Nippon Suisan Gakkaishi* 51(6):935-940. 1988. In English  
[Dep. Biol. & Aquacult., Shimonoseki Univ. Fish., Shimonoseki 759 Japan]  
 *japonica*, *A. marmorata*, *A. bicolor pacifica*, and *A. celebesensis*.

88-004509 Takeuchi, Shoichi; Michio Ogura; Masao Nemoto and Masao Nemoto. [DISTRIBUTION OF BIGEYE TUNA IN THE ATLANTIC AS SEEN FROM CATCHES.] *Nippon Suisan Gakkaishi* 54(8):1271-1277. 1988. In Japanese  
FR 33(4)  
[Dep. Mar. Sci. & Technol., Tokyo Univ. Fish., Konan 4, Minato-ku, Tokyo 108, Japan]  
*Thunnus obesus*.

88-004510 Trofimov, A. G. and M. Yu. Tamoykin. PHENOGEOGRAPHY OF *LEPTOCETUS* IN THE TROPICAL ATLANTIC OCEAN. *J. Ichthyol. (Estuaries)* 27(6):90-95. 1987. FR 33(4)  
[Inst. Biol. South. Ocean (InBYuN), AN SSSR, Sevastopol, USSR]

88-004511 Villwock, Wolfgang. SPECIATION AND ADAPTIVE RADIATION IN MOUNTAIN FISHES. In: *High Altitude Tropical Biogeography*. Franco Moximino Monasterio, editors. p. 387-403. 1986. FR 33(4)  
[Zool. Inst., Martin Luther King Platz 3, Univ. Hamburg, 2000 Hamburg, Germany]

88-004512 White, Brian N. OCEANIC ANOXIC EVENTS AND ALLOPATRY IN THE DEEP SEA. *Biol. Oceanogr.* 5(4):243-259. 1987. FR 33(4)  
[Sect. Ichthyol., Nat. Hist. Mus. Los Angeles Cty., 900 Exposition Blvd., Los Angeles, CA 90007]

#### ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY

88-004513 Angyal, R.; R. Glass and O. E. Maughan. THE CHARACTERISTICS OF A WHITE CRAPPIE POPULATION OF SOONER LAKE, OKLAHOMA. *Proc. Oklahoma Acad. Sci.* 10. 1987. FR 33(4)  
[Dep. Environ. Conserv., New Paltz, NY 12561] *Pomoxis annularis*.

88-004514 Bley, Patrick W. and John R. Moring. FRESHWATER AND OCEANIC ATLANTIC SALMON AND STEELHEAD: A SYNOPSIS. *U.S. Fish Wildl. Serv. Bull.* 88(9):22p. 1988. Available from U.S. Fish & Wildl. Serv., Publ. Unit, 148, Washington, DC 20240. FR 33(4)  
[Coop. Fish & Wildl. Res. Unit, 240 Nutting Hall, Univ. Maine, Orono, ME 04469]  
and *S. gairdneri*.

88-004515 Cury, Philippe. [SELECTIVE PRESSURES AND EVOLUTIONARY HYPOTHESES FOR UNDERSTANDING CERTAIN ASPECTS OF LONG TERM VARIATION OF COASTAL PELAGIC FISHES.] *Can. J. Fish. Aquat. Sci.* 45(6): 1000-1010. 1988. FR 33(4)  
[Chercheur ORSTOM, Inst. Supérieur de Pêche, 17170 Arcachon, France]

- 04517 Fisher, J. P. and W. G. Pearcy. GROWTH OF JUVENILE COHO SALMON (*Oncorhynchus kisutch*) OFF OREGON AND WASHINGTON, USA, IN YEAR-CLASS 1987. In English with French summ. FR 33(4) [Mar. Biol. Inst., Univ. Constance, P.O. Box 5560, D-7750 Konstanz, West Germany]
- 04518 Jimenez Perez, Luis Clemente; Gregory Hamman and Teresa Gutierrez. GROWTH AND MORTALITY OF EARLY-LIFE STAGES OF THE NORTHERN ANCHOVY (*Engraulis mordax*) IN THE NEAR SHORE ZONE OF SAN RAMON BEACH, BAJA CALIFORNIA SUR, MEXICO. *Cienc. Mar. (Mex.)* 11(1):49-63. 1985. In Spanish and English. FR 33(4) [Dep. Invest. Oceanogr. Ensenada, Vicente Guerrero No. 133, Ensenada, B.C., Mexico]
- 04519 Kaeding, Lynn R. and Douglas B. Osmundson. INTERACTION OF GROWTH AND INCREASED EARLY-LIFE MORTALITY: AN HYPOTHESIS ON THE DECLINE OF COLORADO SQUAWFISH IN THE UPSTREAM REGIONS OF ITS HISTORIC RANGE. *Biol. Fishes* 22(4):287-298. 1988. FR 33(4) [U.S. Fish & Wildl. Serv., Colo. River Fish. Project, 529 25-1/2 Rd., Grand Junction, CO 81505] *Ptychocheilus lucius* in Colorado and Utah.
- 04520 Loftus, Andrew J.; William W. Taylor and Myrl Kollar. AN EVALUATION OF THE EFFECTS OF GROWTH AND MORTALITY ON THE UPPER GROWTH OF THE TROUT (*Salvelinus namaycush*) HOOKING MORTALITY IN THE UPPER COLORADO RIVER. *Can. J. Fish. Aquat. Sci.* 45(8):1473-1479. 1988. In English with French summary [Dep. Nat. Resour., Tidewater Admin.-Fish., Tawes State Off. Bldg., C-2, Annapolis, MD 21401]
- 04521 Moses, Boniface S. GROWTH, MORTALITY AND POTENTIAL YIELD OF BOBWHITE (*Malosa fimbriata*) OF NIGERIAN INSHORE WATERS. *Fish. Res. Board Can.* 45(2):233-247. 1988. FR 33(4) [Dep. Zool. & Fish., Univ. Cross River State, P.M.B. 1017, Uyo, Nigeria]
- 04522 Peterman, Randall M. and Michael J. Bradford. WIND SPEED AND MORTALITY OF A MARINE FISH, THE NORTHERN ANCHOVY (*Engraulis mordax*). *Can. J. Fish. Aquat. Sci.* 45(3):354-356. 1987. FR 33(4) [Dep. Nat. Resour. Manage. Program, Simon Fraser Univ., Burnaby, BC, Canada V5A 1S6]
- 04523 Richards, Laura J. COPPER ROCKFISH (*Sebastes caurinus*) AND BLACK ROCKFISH (*Sebastes maliger*) HABITAT IN THE STRAIT OF GEORGIA, BRITISH COLUMBIA. *Can. J. Zool.* 65(12):3188-3191. 1987. In English with French summary [Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nanaimo, BC, Canada V9S 6K6]
- 04524 Southward, A. J.; G. T. Boalch and Linda Maddock. FLUCTUATIONS IN THE HERRING AND PILCHARD FISHERIES OF DEVON AND CORNWALL LINKED TO CLIMATE SINCE THE 16th CENTURY. *J. Mar. Biol. Assoc. U.K.* 69(3):423-445. 1989. FR 33(4)

## IDENTIFICATION, KEYS, CLASSIFICATION

88-004526 Amato, Luis H. [DESCRIPTION OF *CYNOLEBIAS CYANEUS* ANNUAL FISH FROM RIO GRANDE DE SUL, BRASIL (CYPRINODONTIFORMES, RIVULIDAE).] *Comun. Zool. Mus. Hist. Nat. Montev.* 163:11p. 1988. English summ. FR 33(4)

[Dep. Ictiol., Mus. Nac. Hist. Nat., Casilla Correo 399, Montevideo, Uruguay]

88-004527 Birdsong, Ray S. *ROBINSICHTHYS ARROWSMITHENSIS*, A SPECIES OF DEEP-DWELLING GOBIID FISH FROM THE WESTERN CAROLINAS. *Soc. Wash.* 101(2):438-443. 1988. FR 33(4)

[Dep. Biol. Sci., Old Dominion Univ., Norfolk, VA 23529]

88-004528 Borets, L. A. [A NEW SPECIES OF GUNNEL FISH, *ALLOPHOTODON* N., FROM THE SEA OF OKHOTSK.] *Mar. Biol. Vladivostok* 1988(2):66-70. with English summ. FR 33(4)

[Lab. Appl. Biocenol., Pac. Res. Inst. Fish. & Oceanogr., Vladivostok, USSR]

88-004529 Buckup, Paulo Andreas. THE GENUS *HEPTAPTICHTHYS* (PIMELODIDAE) IN SOUTHERN BRAZIL AND URUGUAY, WITH THE DESCRIPTION OF A NEW SPECIES. *Copeia* 1988(3):641-653. 1988. In English with Spanish summ.

[Dep. Biol. & Fish Div., Mus. Zool., Univ. Mich., Ann Arbor 48109-0616, U.S.A.]  
*H. sympterygium*, *H. mustelinus*, and *H. multiradiatus*.

88-004530 Burgess, Warren E. THE MANY FACES OF *LAMPROLOGUS*. *Fish Hobbyist* 37(1):61-62. 1988. FR 33(4)

88-004531 Cashner, Robert C.; James S. Rogers and James M. Grad. A NEW SPECIES OF THE SUBGENUS *XENISMA* FROM THE TALLAPOOS MOUNTAINS OF ALABAMA AND GEORGIA. *Copeia* 1988(3):674-683. 1988.

[Dep. Biol. Sci., Univ. New Orleans, New Orleans, LA 70148]

88-004532 Castro, Ricardo M. C. *SEMAPROCHILODUS VARII*, A NEW SPECIES OF PROCHILODONTID FISH (OSTARIOPHYSI: CHARACIFORMES) FROM THE RIVER, SURINAM. *Proc. Biol. Soc. Wash.* 101(3):503-508. 1988. In English with English summ. FR 33(4)

[Dep. Biol., FFCLRP-Univ. Sao Paulo, Ave. Bondeirantes 3900, Preto, SP, Brazil]

88-004533 Costa, Wilson J. E. M. A NEW SPECIES OF THE NEOTROPICAL GENUS *PTEROLEBIAS* (CYPRINODONTIFORMES, RIVULIDAE), FROM THE RIVER. *(Lond.)* 215(4):657-662. 1988. FR 33(4)

[Mus. Zool. Univ. Sao Paulo, Brazil] *P. phostanus*.



1535 DiSalvo, Louis H.; John E. Randall and Alfredo Cea. ECOLOGICAL RECOGNITION OF THE EASTER ISLAND SUBLITTORAL MARINE ENVIRONMENT. *Chil. Pesq. Pesq.* 4(4):451-473. 1988. FR 33(4)  
p. Aquacult., Univ. del Norte, Casilla 480, Coquimbo, Chile]

1536 Doadrio, Ignacio. *LEUCISCUS CAROLITERTII* N. SP. FROM THE IBERIAN PENINSULA (PISCES: CYPRINIDAE). *Senckenb. Biol.* 68(4/6):301-309. 1987. In English with Spanish summ.  
p. Mus. Nac. Cienc. Nat., Jose Gutierrez Abascal 2, Madrid 28006, Spain]

1537 Eakin, Richard R. A NEW SPECIES OF *POGONOPHYRYNE* (PISCES: DIDRACONIDAE) FROM THE SOUTH SHETLAND ISLANDS, ANTARCTICA. *Proc. U.S. Nat. Mus.* 101(2):434-437. 1988. FR 33(4)  
p. Geol. & Nat. Hist. Serv., Westport, ME 04103] *P. dewitti*.

1538 Edsall, Thomas A.; Bruce A. Manny and C. Nicholas Raphael. THE ST. CROIX RIVER AND LAKE ST. CLAIR, MICHIGAN: AN ECOLOGICAL PROFILE. *U.S. Fish & Wildlife Serv. Biol. Rep.* 85(7.3) 130p. 1988. Available from U.S. Fish & Wildlife Serv., 566 Rte. 1, Slidell, LA 70458 FR 33(4)  
p. U.S. Fish & Wildlife Serv., Natl. Fish. Res. Cent.-Great Lakes, Ann Arbor, MI 48105]

1539 Ferraris, Carl J., Jr. RELATIONSHIPS OF THE NEOTROPICAL CATFISH GENUS *PROGLANIS*, WITH A DESCRIPTION OF A NEW SPECIES (OSTEICHTHYS: PIMELODIDAE). *Proc. Biol. Soc. Wash.* 101(3):509-516. 1988. In English with Spanish summ. FR 33(4)  
p. Ichthyol., Am. Mus. Nat. Hist., New York, NY 10024] *N. pauciradiatus* n. sp.

1540 Gibbs, Robert H., Jr. and James F. McKinney. HIGH-COUNT SPECIES OF THE FISH GENUS *ASTRONESTHES* FROM THE SOUTHERN SUBTROPICAL CONVERGENCE REGION: TWO NEW SPECIES AND REDESCRIPTION OF *CRYPTOSTOMUS* (*ASTRONESTHES*) *PSYCHROLUTES*. *Smithson. Contrib. Zool.* No. 460. 25p. 1988  
p. Fish., Dep. Vertebr. Zool., Natl. Mus. Nat. Hist., Smithsonian Inst., Washington, DC 20560] *A. houlengeri*, *A. gemmifer*, *A. psychrolutes*, *A. spotuller*, and *A. krefftii*.

1541 Haedrich, Richard L. and Nigel R. Merrett. SUMMARY ATLAS OF DEEP-LIVING MARSIPPOSTRACID FISHES IN THE NORTH ATLANTIC BASIN. *J. Nat. Hist.* 22(5):1325-1362. 1988. FR 33(4)  
p. Ocean. Sci. Cent., Memorial Univ., St. John's, NF, Canada A1B 3X7]

1542 Hansen, Patricia E. Hadley. REVISION OF THE TRIPTERYGIID FISH GENUS *HOGRAMMA*, INCLUDING DESCRIPTIONS OF FOUR NEW SPECIES. *Bull. Mar. Sci.* 38:313-354. 1986. FR 33(4)  
p. Div. Miami, School Med., Rosenstiel Sci. Bldg., 1600 N.W. 10th Ave., Miami, FL 33136] *H. granma blini*, *H. rhinoceros*, *H. springeri*, and *H. striata*.

- 88-004544 International Commission on Zoological Nomenclature. COBITIS (OSTEICHTHYES, CYPRINIFORMES): COBITIS TAENIA LINNAEUS, 1759: THE TYPE SPECIES, AND THE ORIGINAL SPELLING OF THE FAMILY COBITIDAE SWAINSON, 1839 CONFIRMED. *Bull. Zool. Nomencl.* 45(2): 33(4)  
[Int. Comm. Zool. Nomenclature, c/o British Mus. (Nat. Hist.), Cromwell Rd., London SW7 5BD, England]
- 88-004545 Johnson, G. David. SCOMBROID PHYLOGENY: AN ALTERNATIVE. *Bull. Mar. Sci.* 39(1):1-41. 1986. FR 33(4)  
[Div. Fish., Dep. Vertebr. Zool., Natl. Mus. Nat. Hist., Washington, D.C.]
- 88-004546 Kottelat, Maurice and Chu Xin-Luo. TWO NEW SPECIES OF R. 1860 FROM SOUTHERN YUNNAN AND NORTHERN THAILAND. *S. Afr. J. Zool.* 10(3):313-318. 1987. FR 33(4)  
[Zool. Staatssammlung, Munchhausenstr. 21, D-8000 Munich 60, Germany]  
*atridorsalis* and *R. dorsinotata*.
- 88-004547 Kottelat, Maurice. INDIAN AND INDOCHINESE SPECIES OF COBITIS (OSTEICHTHYES: CYPRINIFORMES) WITH DESCRIPTIONS OF TWO NEW SPECIES AND COMMENTS ON THE FAMILY-GROUP NAMES BALITORIDAE AND HOMALOTIDAE. *Suisse Zool.* 95(2):487-504. 1988. FR 33(4)  
[Zool. Staatssammlung, Munchhausenstr. 21, D-8000 Munich 60, Germany]  
*meridionalis* and *B. annamitica*.
- 88-004548 Lea, Robert N. and William N. Eschmeyer. SCORPAENICHTHYS GIRARD, 1854 (OSTEICHTHYES, SCORPAENIFORMES): PROPOSED CONSERVATION OF A SPECIFIC NAME AND CONFIRMATION OF AUTHORSHIP. *Bull. Zool. Nomencl.* 45(2): 134. 1988. FR 33(4)  
[Mar. Resour. Div., Dep. Fish & Game, 2201 Garden Rd., Monterey, CA 93950]
- 88-004549 Livingston, Robert J. INADEQUACY OF SPECIES-LEVEL DIVERSITY ANALYSES IN ECOLOGICAL STUDIES OF COASTAL MIGRATORY FISHES. *Environ. Biol. Fish.* 234. 1988. FR 33(4)  
[Cent. Aquat. Res. & Resour. Manage., Fla. State Univ., Tallahassee, FL 32306]
- 88-004550 Manny, Bruce A.; Thomas A. Edsall and Eugene Jaworski. A FISH OF THE RIVER, MICHIGAN: AN ECOLOGICAL PROFILE. *U.S. Fish Wildl. Serv. Bull.* 85(7.17):86p. 1988. Available from U.S. Fish & Wildl. Serv., Publ. U.S. Fish & Wildl. Serv., Rm. 148, Washington, DC 20240 FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cent.-Great Lakes, Ann Arbor, MI 48106]
- 88-004551 Martin, T. J. and P. C. Heemstra. IDENTIFICATION OF COBITIS (PISCES: PERCIFORMES, AMBASSIDAE) FROM SOUTH AFRICA. *S. Afr. J. Zool.* 12. 1988. In English with Afrikaans summ. FR 33(4)  
[Dep. Zool., Univ. Zululand, kwaDlangezwa 3886, South Africa]  
*notolensis*, and *A. gymnocephalus*.

*AREQUES IVAMOTOTI*, FROM THE WESTERN ATLANTIC, WITH COLOR DESCRIPTIONS OF JUVENILE AND JUVENILE *AREQUES ACUMINATUS* AND *AREQUES UMBROSUS*.

*Sci.* 43(1):88-92. 1988. FR 33(4)

22 Wesley Oak Dr., St. Simons, GA 31522]

04553 Miller, P. J. NEW SPECIES OF *CORCYROGOBIUS*, *THOROGOBIUS*

*ELETERIGOBIUS* FROM WEST AFRICA (TELEOSTEI: GOBIIDAE). *J. Nat. Hist.* 22(5)

. 1988. FR 33(4)

Zool. Dep., The Univ., Bristol BS8 1UG, England] *Corcyrogobius lubbocki*, *Thoro-*

*gnis*, and *Wheelerigobius wirtzi*.

04554 Miller, Peter J. STUDIES ON *SILHOUETTEA* SMITH 1959 AND AN ACCOUNT

OF *MEGOCYBIUS* HERRE 1946 (PISCES: GOBIIDAE). *Senckenb. Biol.* 68(4/6):241-273.

English. FR 33(4)

Zool. Dep., Univ. Bristol, Woodland Rd., Bristol BS8 1UG, England] *S. insularis*

*typi*, *S. aegyptia*, *S. indica*, *S. nuchipunctatus*, *S. evanida*, *S. hoesel*, *S. dotul*, &

*S. h.*

04555 Obregon-Barboza, Hortencia and Salvador Contreras-Balderas. [A NEW SP

ENDEMIC POECILIID FISH FROM MUZQUIZ, COAHUILA (*XIPHOPH*

*MORATUS*).] *Publ. Biol. (Mexico)* 2(3):93-124. 1988. In Spanish with English summ

)

Fac. Cienc. Biol., Univ. Auton. Nuevo Leon, Apdo. Postal 504, San Nicolas c

za, Mexico]

04556 Oyarzun, Ciro and Patricio W. Campos. [*DISSOSTICHIUS ELECINOIDES* S

CONSIDERATIONS ABOUT ITS TAXONOMIC DETERMINATION AND BIOGEOGR

PHILICATIONS (PISCES, PERCIFORMES, NOTOTHENIIDAE).] *Rev. Biol. Mar.* 23(2)

. 1987. In Spanish with English summ. FR 33(4)

Pontificia Univ. Catolica Chile, Dep. BIOTECMAR, Casilla 127, Talcahuano, Chile]

04557 Pequeno, German and Rosa Plaza. [DESCRIPTION OF *PARALICHTHYS DE*

SP., WITH NOTES ON OTHER CONGENERIC FLOUNDERS FROM

EURONECTIFORMES, BOTHIIDAE).] *Rev. Biol. Mar.* 23(2):159-172. 1987. In Sp

English summ. FR 33(4)

Inst. Zool., Univ. Austral Chile, Casilla 567, Valdivia, Chile]

04558 Pigg, Jimmie. SURVEY OF FISHES IN THE OKLAHOMA PANHANDLE

OF DEER COUNTY, NORTHWESTERN OKLAHOMA. *Proc. Okla. Acad. Sci.* 67:45-59. 19

)

Moore High School, Moore, OK]

04559 Pitruk, D. L. NEW DATA ON THE SAKHALIN FLOUNDER, *LIM*

*HALINENSIS*. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):116-119. 1987. FR

Inst. Biol. Sea, DVNTs AN SSSR - IBM, Vladivostok, USSR]

04560 Randall, John E. THREE NOMENCLATORIAL CHANGES IN INDO-PA

CEAN FISHES (ACANTHURINAE). *Pac. Sci.* 41(1-4):54-61. 1987. FR 33(4)

Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817] *Cteno-*

*phnatus*, *C. cyanoguttatus*, *Acanthurus nigricauda*, *A. nigricans*, *A. bleekeri*, *A.*

*bleekeri*, and *A. guttatus*.

88-004562 Ryon, Michael G. and James M. Loar. A CHECKLIST DEPARTMENT OF ENERGY OAK RIDGE RESERVATION. *J. Tenn. Acad. Sci.* 1988. FR 33(4)

{Oak Ridge Natl. Lab., Oak Ridge, TN 37831}

88-004563 Saksena, Vishnu P. and William J. Richards. A NEW SPECIES OF FISH, *BRECMACEROS HOUDEI*, FROM THE WESTERN NORTH ATLANTIC. *Biol. J. Linn. Soc.* 1986. FR 33(4)

{Dep. Biol., Muskingum Coll., New Concord, OH 43762}

88-004564 Schartl, Manfred and Johannes Horst Schiodor. A NEW SPECIES OF FISH, *XIPIOPHORUS HECKEL* 1848, ENDEMIC TO NORTHERN COAHUILA, MEXICO. *Biol. J. Linn. Soc.* 1987. In English. FR 33(4)

{Genzentrum, Max-Planck-Inst. Biochem., D-8033 Martinsried, West Germany}

88-004565 Springer, Victor G. *ROTUMA LEWISI*, NEW GENUS AND SPECIES OF FISH FROM THE SOUTHWEST PACIFIC (GOBIOIDEI, XENISTHMIDAE). *Proc. U.S. Nat. Mus.* 1988. FR 33(4)

{Div. Fishes, Dep. Vertebr. Zool., Natl. Mus. Nat. Hist., Smithsonian Institution, Washington, DC 20560}

88-004566 Starnes, Wayne C. and Robert E. Jenkins. A NEW CYPRINID FISH, *PHOXINUS* (PISCES: CYPRINIFORMES) FROM THE TENNESSEE RIVER. *Proc. U.S. Nat. Mus.* 1988. FR 33(4)

{Div. Fishes, Dep. Vertebr. Zool., Natl. Mus. Nat. Hist., Smithsonian Institution, Washington, DC 20560} *P. tennesseensis*.

88-004567 Stauffer, Jay R., Jr. THREE NEW ROCK-DWELLING CICHLIDAE FROM LAKE MALAWI, AFRICA. *Copeia* 1988(3):663-668. 1988.

{School For. Resour., Pa. State Univ., University Park 16802} *Pseudocrenilabrus cyaneus*, and *P. ater*.

88-004568 Sulak, Kenneth J. and Yuri N. Scherbachev. A NEW SPECIES OF FISH, *BATHYPTEROIS (BATHYCYGNUS) ANDRIASHEVI* (CHLOROPHTHALMIDAE) FROM THE WESTERN SOUTH PACIFIC OCEAN. *Copeia* 1988(3):653-659. 1988. FR 33(4)

{Atlantic Reference Cent., Huntsman Mar. Sci. Cent., St. Andrews, Scotland}

88-004569 Tarakanov, E. A. and A. V. Balushkin. [SYNOPTIC CHECKLIST OF ANGLERFISHES OF THE GENUS *CERATIAS*.] *Mar. Biol. Vladivostok* 1988. FR 33(4)

{Leningrad State Univ., Zool. Inst., Acad. Sci. USSR, Leningrad} *C. holboellii* and *C. tentaculatus*.

ER'S ON OTHER NOMINAL CURIMATID AND PROCHILODONTID BY FOWLER.  
MENTS: 777-780. 1988. FR 33(4)  
3): Vertebr. Zool. (Fishes), Natl. Mus. Nat. Hist., Smithsonian Inst., Washing  
pp.  
1]

4571 Vasishit, H. S.; J. M. Julka and B. Bala. SYSTEMATICS OF THE FAUNA OF  
STREAMS AT SOLAN (H.P.). *Res. Bull. Panjab Univ. Sci.* 38(3-4):141-143. 1988.

Zool., Panjab Univ., Chandigarh, India]

4572 Vogt, Kenneth D. LIPARIDAE GILL, [30 SEPTEMBER] 1861 (OSTEICHTHYS  
LIPARINIFORMES): PROPOSED CONFIRMATION OF SPELLING. *Bull. Zool. Nat.*  
:130-131. 1988. FR 33(4)

O. Box 230325, Anchorage, AK 99523-0325] *Liparis* spp.

4573 Wheeler, Alwyno. THE NOMENCLATURE OF THE SOLE. *SOLEA  
LAEUS*, 1758). *J. Fish. Biol.* 33(3):489-490. 1988. FR 33(4)

p. Zool., British Mus. (Nat. Hist.), London SW7 5BD, England]

4574 Williams, R. THE INSHORE MARINE FISHES OF THE VESTFOLD HILLS  
ARCTICA. *Hydrobiologia* 165:161-167. 1988. FR 33(4)

Antarctic Div., Dep. Sci., Kingston, Tasm. 7150, Australia]

4575 Wongratana, Thosaporn. LEIOGNATHUS PAN, A NEW PONYFISH (P  
LEIOGNATHIDAE) FROM THAILAND, WITH COMMENTS ON THAI LEIOGNATHIDS.  
*Soc. Wash.* 101(3):496-502. 1988. FR 33(4)

iv. Mus. Zool., Dep. Biol., Fac. Sci., Chulalongkorn Univ., Bangkok  
and]

4576 Zhou Caiwu; Yang Qing and Cai Dalin. [ON THE CLASSIFICATION  
DISTRIBUTION OF THE SINIPERCINAE FISHES (FAMILY SERRANIDAE).] *Zool.*  
113-125. 1988. In Chinese with English summ. FR 33(4)

andong Univ., Jinan, China] *Coreosiniperca roulei*, *Siniperca chuatsi*, *S. schrenkii*,  
*Siniperca whiteheadi*, *C. kawamebari*, and *C. herzi*.

4577 Zorzi, George D. and M. Eric Anderson. RECORDS OF THE DEEP-SEA SH  
(*AMBLYRAJA*) *BADIA* GARMAN, 1899 AND *BATHYRAJA ABYSSICOLA* (GL  
IN THE EASTERN NORTH PACIFIC, WITH A NEW KEY TO CALIFORNIA SH

*Fish Game* 74(2):87-105. 1988. FR 33(4)

p. Ichthyol., Calif. Acad. Sci., Golden Gate Park, San Francisco, 94118]

## SITES AND DISEASES-GENERAL

4578 Arai, H. P.; Z. Kabata and D. Noakes. STUDIES ON SEASONAL CHANGE  
STUDIODINAL DIFFERENCES IN THE METAZOAN FAUNA OF THE SHINER P

STOGASTER AGGREGATA, ALONG THE WEST COAST OF NORTH AMERICA. *C*  
66(7):1514-1517. 1988. In English with French summ. FR 33(4)

p. Biol. Sci., Univ. Calgary, Calgary, AB, Canada T2N 1N4]

4579 ... .. (FUNCTIONS AND PARASITIC DISEASES OF SALM...

- 88-004580 Dechtiar, Alex O. and Stephen J. Nepszy. SURVEY OF THE  
OF SELECTED FISH SPECIES FROM LAKE ERIE, 1970-1975. *Great Lakes  
Rep. No. 51*, p. 49-65, 96-106. 1988. FR 33(4)  
[Nepszy: Minist. Nat. Resour., Lake Erie Fish. Stn., R.R. #2, Wheat  
2P0]
- 88-004591 Dechtiar, Alex O. and Andrew H. Lawrie. SURVEY OF THE  
OF LAKE SUPERIOR FISHES, 1969 TO 1975. *Great Lakes Fish. Comm.  
p. 1-18, 96-106*. 1988. FR 33(4)  
[Lawrie: Minist. Nat. Resour. Res. Stn., Fish Branch, Box 50, Mar  
1E0]
- 88-004582 Dechtiar, Alex O. and W. J. Christie. SURVEY OF THE PA  
LAKE ONTARIO FISHES, 1961 TO 1971. *Great Lakes Fish. Comm. Tech.  
106*. 1988. FR 33(4)  
[Christie: Minist. Nat. Resour., Glenora Fish. Stn., R.R. 4, Picto  
2T0]
- 88-004583 Dechtiar, Alex O.; John J. Collins and James A. Reckalt  
PARASITE FAUNA OF LAKE HURON FISHES, 1961 TO 1971. *Great Lakes  
Rep. No. 51*, p. 19-48, 96-106. 1988. FR 33(4)  
[Collins: Minist. Nat. Resour., Lake Huron Fish. Res. Stn., R.R. #  
Canada POP 2C0]
- 88-004584 Dupont, Francis and Alain J. Crivelli. DO PARA  
DISADVANTAGE TO HYBRIDS? A CASE STUDY OF *ALBURNUS ALBURNUS*  
*RUBILIO*, A NATURAL HYBRID OF LAKE MIKRI PRESPA, NORTHERN  
(*Berl.*) 75(4):587-592. 1988. FR 33(4)  
[Lab. Parasitol. Comp., U.S.T.L., Place E. Bataillon, F-34060 Montpe  
rnan]
- 88-004585 Kennedy, C. R. INTERACTIONS OF FISH AND PARASITE  
PERPETUATE OR PIONEER? *Linn. Soc. Symp. Ser. No. 11* p. 1-20. 198  
[Dep. Biol. Sci., The Univ., Exeter EX4 4PS, England]
- 88-004586 Kent, Michael L.; M. S. Myers; D. E. Hinton; W. D. Eat  
SUSPECTED TOXICOPATHIC HEPATIC NECROSIS AND MEGALOCYTO  
ATLANTIC SALMON *SALMO SALAR* IN PUGET SOUND, WASHINGTON  
*Org. 4*(2):91-100. 1988. FR 33(4)  
[Battelle Mar. Res. Lab., 439 W. Sequim Bay Rd., Sequim, WA 98382]
- 88-004587 Muzzall, Patrick M.; Gary E. Whelan and C. Robert Pee  
BURBOT, *LOTA LOTA* (FAMILY GADIDAE), FROM THE FORD RIV  
PENINSULA OF MICHIGAN. *Can. J. Zool.* 65(11):2825-2827. 1987. In  
summ. FR 33(4)  
[Dep. Nat. Sci., Mich. State Univ., East Lansing 68824]

004588 Nepszy, Stephen J., editor. PARASITES OF FISHES IN THE CANADIAN WATERS OF THE GREAT LAKES. *Great Lakes Fish. Comm. Tech. Rep. No. 51*. 106p. 1988. FR 33(4)  
Minist. Nat. Resour., Lake Erie Fish. Res. Stn., R.R. #2, Wheatley, ON, Canada  
Selected chapters indexed in this issue of *Fisheries Review*.

004589 Rollinson, D. and R. M. Anderson, editors. ECOLOGY AND GENETIC INTERACTIONS OF FISH-TO-TOXIC-AGENT-TO-PARASITE INTERACTIONS. *Linn. Soc. Symp. Ser. No. 11*. p. 1-266. 1985. FR 33(4)  
Selected papers indexed in this issue of *Fisheries Review*.

004590 Roubal, Frank R. COMPARISON OF ECTOPARASITE PATHOLOGY ON GILTHEAD AND SILVER TAIL BLOWFIN BREAM, *ACANTHOPAGRUS AUSTRALIS* (GUNTHER) (PISCES: SPARIDAE) IN THE GREAT LAKES. *Aust. J. Zool.* 35(1):93-100. 1987. FR 33(4)  
Dep. Parasitol., Univ. Queensland, St. Lucia, Qld. 4067, Australia]

004591 Semenas, L.; C. Uboda; S. Ortubay; P. Noguera; J. Revonga and G. V. V. [HEALTH STATUS OF FISH POPULATIONS IN PATAGONIAN ANDEAN LAKES.] In: *Procedimientos Nacionales de Fauna Silvestre: Resúmenes (Univ. Nac. La Pampa)*. p. 17-18. 1987. FR 33(4)  
Spanish abstract only. FR 33(4)

004592 Tell, Kh. I. [FISH PARASITES IN EUTROPHIC LAKES IN THE ESTONIAN REPUBLIC.] *Res. Vod. Basseina Balt. Morya*. p. 191-192. 1987. In Russian. From *Helminthol. Tr. Ser. A Anim. Human Helminthol.* 57(6):1535. 1988. FR 33(4)  
Inst. Zool. & Parasitol., AN Litovskoi SSR, USSR]

004593 Vyalova, G. P. and V. N. Voronin. [MICROSPORIDIOSIS OF SALMONID FISHES BY *SPOROZOON SALMOSITICUM*: INFECTION PREVALENCE AND DYNAMICS.] *Parazitologiya* 21(4):553-588. 1988. FR 33(4)  
Russian with English summ. From *Protozool. Abstr.* 12(5):1242. 1988. FR 33(4)  
Species: *Salvelinus leucomaenis*, *Oncorhynchus keta*, *O. masou*, *O. gorbuscha*, *Salvelinus malma*, and *S. leucomaenis*.

## BACTERIAL DISEASES

004594 Austin, B. and A. M. J. Al-Zahrani. THE EFFECT OF ANTIMICROBIAL COMPOUNDS ON THE GASTROINTESTINAL MICROFLORA OF RAINBOW TROUT, *Salmo gairdneri* RICHARDSON. *J. Fish Biol.* 33(1):1-14. 1988. FR 33(4)  
Dep. Browing & Biol. Sci., Heriot-Watt Univ., Chambers St., Edinburgh EH1 3JY, Scotland]

004595 Baba, T.; J. Imamura; K. Izawa and K. Ikeda. IMMUNE PROTECTION IN *CYPRINUS CARPIO* L., AFTER IMMUNIZATION WITH *AEROMONAS HYDROPHILA* O-ANTIGEN POLYSACCHARIDE. *J. Fish Dis.* 11(3):237-244. 1988. FR 33(4)  
Dep. Vet. Microbiol., Coll. Agric., Univ. Osaka Prefecture, Mozu-Umemachi 4, Sakai 591, Japan]

004596 Bell, G. R.; G. S. Traxler and C. Dworschak. DEVELOPMENT IN VITRO OF THE PATHOGENICITY OF AN ERYTHROMYCIN-RESISTANT STRAIN OF *RENIBACTERIA MENINGITIS* (RENIBACTERIA MENINGITIS), THE CAUSATIVE AGENT OF BACTERIAL KIDNEY DISEASE IN SALMONIDS. *Dis. Aquat. Org.* 4(1):19-25. 1988. FR 33(4)  
Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nanaimo, BC, Canada]

RAPID IDENTIFICATION OF STREPTOCOCCOSIS OF RAINBOW  
GAIRDNERI). *Onderstepoort J. Vet. Res.* 55(1):59-61. 1988. FR 33(4)  
[Fish Dis. Unit, Vet. Res. Inst. Onderstepoort, Onderstepoort 0110,

88-004508 Daly, J. G. and R. M. W. Stevenson. INHIBITORY EFFECTS OF  
TISSUE ON THE GROWTH OF *RENIBACTERIUM SALMONINARUM*.  
4(3):169-171. 1988. FR 33(4)  
[Dep. Microbiol., Coll. Biol. Sci., Univ. Guelph, Guelph, ON, Canada]

88-004509 Ellis, A. E.; A. S. Burrows and K. J. Stapleton. LACK OF  
BETWEEN VIRULENCE OF *AEROMONAS SALMONICIDA* AND THE PLASMID  
FACTORS: A-LAYER, EXTRACELLULAR PROTEASES AND  
HAEMOLYSINS. *J. Fish Dis.* 11(4):309-323. 1988. FR 33(4)  
[Mar. Lab., P.O. Box 101, Aberdeen AB9 8DB, Scotland]

88-004600 Ellis, A. E.; K. J. Stapleton and T. S. Hastings. THE  
RESPONSE OF RAINBOW TROUT (*SALMO GAIRDNERI*) IMMUNISED BY  
AND PREPARATIONS OF *AEROMONAS SALMONICIDA* ANTIGENS.  
*Immunopathol.* 19(2):153-164. 1988. FR 33(4)  
[DAFS Mar. Lab., Victoria Rd., Torry, Aberdeen AB9 8DB, Scotland]

88-004601 Espelid, S.; K. O. Holm; K. Hjelmeland and T. Jørgensen.  
ANTIBODIES AGAINST *VIBRIO SALMONICIDA*: THE CAUSATIVE AGENT OF  
VIBRIOSIS ('HITRA DISEASE') IN ATLANTIC SALMON, *SALMO SALAR*.  
11(3):207-214. 1988. FR 33(4)  
[Found. Appl. Res., Univ. Tromsø (FORUT), P.O. Box 3063 Gjøa, Tromsø,  
Norway]

88-004602 Evenberg, D.; P. De Graaff; B. Lugtenberg and W. J. J. van  
VACCINE-INDUCED PROTECTIVE IMMUNITY AGAINST *AEROMONAS SALMONICIDA*  
IN EXPERIMENTAL CARP ERYTHRODERMATITIS. *J. Fish Dis.* 11(4):333-340.  
33(4)  
[Lab. Bacterial Vaccine, Natl. Inst. Public Health & Environ. Hyg.,  
3720 BA Bilthoven, Netherlands] *Cyprinus carpio*.

88-004603 Fryar, J. L.; R. P. Hedrick; J. W. Park and Y. C. Park.  
*AEROMONAS SALMONICIDA* FROM MASU SALMON IN THE REPUBLIC OF KOREA.  
*Dis.* 24(2):364-365. 1988. FR 33(4)  
[Dep. Microbiol., Oreg. State Univ., Corvallis 97331] *Oncorhynchus masou*

88-004604 Hayakawa, Yutaka; Yukio Fujimaki; Yasushi Tomizawa; Kiyoko  
Kubota; Kenzou Sawada; Yasuhiko Jo and Makoto Isogai. HISTOCHEMICAL  
IMMUNOHISTOCHEMICAL STUDIES ON AN EFFECT OF VACCINE FOR  
*FISH PATHOL.* 23(2):85-90. 1988. In Japanese with English summ. FR 33(4)  
[Dep. Fish Dis., Nippon Vet. & Zotech. Coll., 1-7-1 Kyonan Cho, Nishino,  
Japan] *Plecoglossus altivelis*.

88-004605 Hjelmeland, K.; K. Stensvåg; T. Jørgensen and S. Espe. CHARACTERIZATION OF A SURFACE LAYER ANTIGEN FROM *VIBRIO SALMONICIDA*.  
*Fish Dis.* 11(3):197-205. 1988. FR 33(4)



## 004605 CONTINUED

Found. Appl. Res., Univ. Tromsø (FORUT), P.O. Box 3063 Guleng, 9101 T  
[way]

004606 Jenkins, Jill A. and Donald D. Ourth. COMPLEMENT MEDIATED DAMAGE BY CHANNEL CATFISH, *ICTALURUS PUNCTATUS* PLASMA. *J. Tenn. Fish. Res. Board* 63(4):118-119. 1988. Abstract only. FR 33(4)

004607 Kawahara, Eijiro and Ruchi Kusuda. LOCATION OF *PASTEURFLIA PISCICOLA* ANTIGENS IN TISSUES OF YELLOWTAIL *SERIOLA QUINQUERADIATA* VACCINATED WITH A LIVE VACCINATION. *Nippon Suisan Gakkaishi* 54(7):1101-1105. 1988. FR 33(4)  
Fish Dis. Lab., Kochi Univ., Monobe, Nankoku, Kochi 783, Japan]

004608 Kent, Michael L.; Christopher F. Dungan; Ralph A. Elston and Richard A. ... *CYTOPHAGA* SP. (CYTOPHAGALES) INFECTION IN SEAWATER PEN-REARED ATLANTIC SALMON *SALMO SALAR*. *Dis. Aquat. Org.* 4(3):173-179. 1988. FR 33(4)  
Battelle Mar. Res. Lab., 439 W. Sequim Bay Rd., Sequim, WA 98382]

004609 Markwardt, Nancy Morrison. A METHOD TO ELIMINATE THE ASYMPTOMATIC CARRIER STATE OF *AEROMONAS SALMONICIDA* IN JUVENILE SPRING CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*). *M.S. Thesis, Univ. Idaho* 49p. 1988. FR 33(4)

004610 Morales, Patricia. FISH TUBERCULOSIS. A ZOOLOGICAL DISEASE OF AQUARIUMS. *Am. Assoc. Zool. Parks Aquariums Regional Conf. Proc.* p. 89-92. 1988. FR 33(4)  
Steinhart Aquarium, Calif. Acad. Sci., San Francisco 94123]

004611 O'Grady, P.; M. Moloney and P. R. Smith. BATH ADMINISTRATION OF A QUINOLONE ANTIBIOTIC FLUMEQUINE TO BROWN TROUT *SALMO TRUTTA* AND ATLANTIC SALMON *S. SALAR*. *Dis. Aquat. Org.* 4(1):27-33. 1988. FR 33(4)  
Dep. Microbiol., University Coll., Galway, Ireland]

004612 Ocvirk, Joze; Miha Janc; Svetlana Jeremic and Boris Skalin. THE FIRST REPORT OF ENTERIC REDMOUTH DISEASE IN YUGOSLAVIA. *Ichthyos* No. 6. p. 34-37. 1988. FR 33(4)  
[Fish. Res. Inst., Ljubljana, Yugoslavia] *Salmo gairdneri*.

004613 Pascho, H. J.; D. G. Elliott; R. W. Mallett and D. Mulcahy. COMPARISON OF SEVERAL TECHNIQUES FOR THE DETECTION OF *RENIBACTERIUM SALMONINARUM* IN ATLANTIC SALMON. *Trans. Am. Fish. Soc.* 116(6):882-890. 1987. FR 33(4)  
NeoRx Corp., 410 W. Harrison, Seattle, WA 98119] *Oncorhynchus kisutch*.

004614 Perez Benavente, G. and F. J. Gatesoupe. BACTERIA ASSOCIATED WITH CULTURED ROTIFERS AND ARTEMIA ARE DETRIMENTAL TO LARVAL TROUT. *Aquacult. Eng.* 7(4):289-293. 1988. FR 33(4)  
IFREMER/INRA, Cent. Brest, BP 337, 29273 Brest Cedex, France]

004615 Peters, Gabriele; M. Faisal; T. Lang and Iman Ahmed. STRESS CAUSED BY SOCIAL INTERACTION AND ITS EFFECT ON SUSCEPTIBILITY TO *AEROMONAS DROPHILA* INFECTION IN RAINBOW TROUT *SALMO GAIRDNERI*. *Dis. Aquat. Org.*

88-004616 Saheki, Kazuaki and Tsutomu Kawanishi. [SALMONELLA IN FISH MEALS PREPARED IN THE COASTAL AREAS OF JAPAN.] *Nippon Suisan Gakkaishi* 54(7):1189-1194. 1988. In Japanese with English summ. FR 33(4)  
[Tokyo Univ. Fish., Konan, Minato, Tokyo 108, Japan]

88-004617 Sovenyi, J. F.; M. Bercesenyi and J. Bakos. COMPARATIVE SUSCEPTIBILITY OF TWO GENOTYPES OF CARP (*CYPRINUS CARPIO*) WITH *AEROMONAS SALMONICIDA*. *Aquaculture* 70(4):301-308. 1988. FR 33(4)  
[Vet. Med. Res. Inst. Hungarian Acad. Sci., Budapest, pf. 18, 1591 H-117]

88-004618 Tajima, Kenichi; Yoshio Ezura and Takahisa Kimura. [VIBRIO ANGUILLARUM IN OTSUCHI BAY AS FISH CULTURE ENVIRONMENT.] *Nippon Suisan Gakkaishi* 54(2):95-103. 1988. In Japanese with English summ. FR 33(4)  
[Fac. Fish, Hokkaido Univ., Hakodate, Hokkaido 041, Japan] *Oncorhynchus mykiss*

88-004619 Takemaru, Iwao and Riichi Kusuda. [EFFECT OF JOSAMYCIN ON INTESTINAL MICROFLORA OF CULTURED YELLOWTAIL.] *Nippon Suisan Gakkaishi* 54(5):837-840. 1988. In Japanese with English summ. FR 33(4)  
[Fish Dis. Lab., Fac. Agric., Kochi Univ., Nankoku, Kochi 780, Japan] *Quinqueradula*

88-004620 Thorburn, Margaret A. and Eva L. K. Jansson. THE EFFECT OF VACCINATION AND FISH SIZE ON SURVIVAL AND ANTIBODY PRODUCTION IN CARP (*CYPRINUS CARPIO*) WITH *VIBRIO* INFECTION OF BATH-VACCINATED RAINBOW TROUT, *Salmo gairdneri*. *Aquaculture* 71(4):285-291. 1988. FR 33(4)  
[Natl. Vet. Inst., Box 7073, S-750 07 Uppsala, Sweden]

88-004621 Tiecco, G.; C. Sebastio; E. Francioso; G. Tantillo. VACCINATION TRIALS AGAINST 'RED PLAGUE' IN EELS. *Dis. Aquat. Organism* 1988. FR 33(4)  
[Inst. Ispezione Alimenti, Fac. Med. Vet., Univ. Studi Bari, CP7, Italy] *Anguilla anguilla*.

88-004622 van de Moer, A.; J.-F. Manier and G. Bouix. [ULTRASTRUCTURE OF *DERMOCYSTIDIUM MACROPHAGI* N.SP., AN INTRACELLULAR PARASITE OF *CAIRDNERI* RICHARDSON, 1836.] *Ann. Sci. Nat. Zool. Biol. Anim.* 9(4):1-12. 1988. French with English summ. FR 33(4)  
[Lab. Ichtyol. & Parasitol. Gen., U.S.T.L., Place Eugène-Bataillon, Cedex, France]

## FUNGAL DISEASES

88-004623 El-Feki, Mostafa Abd El-Fattah. STUDIES ON THE INTERACTION BETWEEN CARP AND *SAPROLEGNIA*. Ph.D. dissertation (Birmingham). 273p. 1987. From Diss. Abstr. Int. B Sci. Eng.

04624 Noga, Edward J.; Jay F. Levine; Michael J. Dykstra and Jess H. Hawley. PATHOLOGY OF ULCERATIVE MYCOSIS IN ATLANTIC MENHADEN *BREVOORTIA TYLOSUS*. *Dis. Aquat. Org.* 4(3):189-197. 1988. FR 33(4)  
[ep. Companion Ann. & Special Species Med., Coll. Vet. Med., State Univ., Raleigh, NC 27606]

#### PROTOZOAN DISEASES

04625 Cone, D. K. and P. H. Odense. OCCURRENCE OF *HETEROPOLARIA* LIVINGSTONI (CILIATA: FREMIET, 1913) AND *APIOSOMA PISCICOLA* BLANCHARD, 1885 (CILIATA: FREMIET, 1913) IN NOVA SCOTIA, CANADA. *Can. J. Zool.* 65(2):2426-2429. 1987. In English with French summ. FR 33(4)  
[ep. Biol., St. Mary's Univ., Halifax, NS, Canada B3H 3C3]

04626 Das, M. K. and D. P. Haldar. URCEOLARIID CILIATES OF THE GENUS *URCEOLARIA* INVADING GILLS OF FRESHWATER CULTURED CARP IN INDIA. *Indian J. Zool.* 23(2-3):169-178. 1986. From Protozool. Abstr. 12(6):1537. 1988. FR 33(4)  
[ep. Zool., Univ. Kalyani, Kalyani 741235, West Bengal, India] *Laboe rohita*, *Cyprinus carpio*, *Cirrhinus mrigala*, *Catla catla*, and *Ctenopharyngodon idella*.

04627 Davies, A. J. and I. K. Sienkowski. FURTHER STUDIES ON *ZSCHOKKIA* TRIPATHI (MYXOZOA: MYXOSPOREA) FROM *CILIATA MUSTELA* L. (TELEOSTEI: MUSTELIDAE), WITH EMPHASIS ON ULTRASTRUCTURAL PATHOLOGY AND SPOROGENESIS. *Dis. Aquat. Org.* 4(4):325-336. 1988. FR 33(4)  
[ep. Analyt. & Biol. Chem., Kingston Polytech., Penrhyn Rd., Kingston Upon Thames, Surrey KT1 2EE, England]

04628 Hedrick, R. P.; J. M. Groff; P. Foley and T. McDowell. ADMINISTRATION OF FUMAGILLIN DCII PROTECTS CHINOOK SALMON *ONCORHYNCHUS Tshawytscha* FROM EXPERIMENTALLY-INDUCED PROLIFERATIVE KIDNEY DISEASE. *Dis. Aquat. Org.* 4(3):165-168. 1988. FR 33(4)  
[ep. Aquacult. & Fish. Program, Dep. Med., School Vet. Med., Univ. Calif., Davis 95616]

04629 Karanikolov, I. and A. Zarkov. [ECTOPARASITES OF LARVAE OF *ICTALURA NEBULOSA* AND THEIR CONTROL.] *Zhivotnov'd. Nauki* 24(9):85-88. 1987. In Bulgarian with Russian and English summ. From Protozool. Abstr. 12(7):1842. 1988. FR 33(4)  
[Inst. po Sladkovodno Ribov'dstvo, Plovdiv, Bulgaria]

04630 Kiskaroly, M. and A. Tafro. [SYMPTOMS, PATHOLOGY AND DIAGNOSIS OF THE MOST FREQUENT PARASITIC DISEASES IN FISH IN FRESHWATER PONDS AND RIVERS CAUSED BY PROTOZOA-1.] *Vet. Glas.* 41(7-8): 619-624. 1987. In Serbo-Croatian with English and Russian summ. From Protozool. Abstr. 12(8):2173. 1988. FR 33(4)  
[ep. Vet. Fak., Sarajevo, Yugoslavia]

AND REGULATORY MEASURES FOR THEIR CONTROL. In *In natural waters and aquaculture in Nordic countries. Proceedings December 1986, Stockholm, Sweden.* (edited by A. Stenmark and 1987. From Protozool. Abstr. 12(6):1536. 1988. FR 33(4)

[Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nan 5K6]

88-004632 Maurand, J.; C. Loubes; C. Gasc; J. Pelletier and J. MIRANDELLAE VANEY & CONTE, 1901, A MICROSPORIDIAN PARASITE OF RIVERS IN HERAULT: TAXONOMY AND HISTOPATHOLOGY. *J. Protozool.* 1988. FR 33(4)

[Lab. Ichtyol. & Parasitol. Gen., Univ. Sci. & Tech. Languedoc-Roussillon, Montpellier, France] *Leuciscus leuciscus*, *L. cephalus*, *Telestes soufla*, and *Gobio gobio*.

88-004633 Molnar, Kalman. DEVELOPMENT OF *MYXOBILATUS* SPECIES. *Dis. Aquat. Org.* 4(3):181-187. 1988. FR 33(4)

[Vet. Med. Res. Inst., Hungarian Acad. Sci., P.O. Box 18, H-1011 Budapest, Hungary] *Scardinius erythrophthalmus* in Hungary.

88-004634 Odening, K. [*SPHAEROSTOMA RENICOLA* (MYXOSPORIDIA) PROTOZOAL SWIM-BLADDER INFLAMMATION IN YOUNG CARP (*CYPRINUS CARPIO*)]. *Zool. Jb. Anat. Physiol.* 28(4(Suppl.)):1-16. 1987. In German. From Protozool. Abstr. 12(6):1-16. 1987.

[Forschung. Wirbeltierforschung Akad. Wissenschaft. DDR, Am Tierpark Berlin, Germany] *Cyprinus carpio*.

88-004635 Skrudland, A. [AN OUTBREAK OF *ICHTHYOBODO* SPECIES IN NORWAY]. *Norsk Veterinærtidsskr.* 99(10):729-730. 1987. In Norwegian. *Acta Ichthyol. Piscator.* 12(5):1243. 1988. FR 33(4)

88-004636 Wierzbicka, J. and E. Sobocka. PARASITIC FAUNA OF *ICHTHYOBODO* (L.) IN THE LAKE DABIE. *Acta Ichthyol. Piscator.* 15(2):191-202. 1987. Polish and Russian summ. From Protozool. Abstr. 12(8):2174. 1988.

[Inst. Ichtyol., ul. Kazimierza Krolewicza 4, 71-550 Szczecin, Poland]

88-004637 Woo, P. T. K. *CRYPTOBIA* AND *CRYPTOBIOSIS* IN *SCARDINIUS ERYTHROPHthalmus*. *Dis. Aquat. Org.* 26:199-237. 1987. FR 33(4)

[Dep. Zool., Coll. Biol. Sci., Univ. Guelph, Guelph, ON, Canada]

88-004638 Wurtsbaugh, Wayne A. and Rene Alfaro Tapla. MASS MORTALITY OF *LAGUNA* (*LAGUNA*) ASSOCIATED WITH THE *ICHTHYOPHITHIRIUS MULTIFILIIS*. *Trans. Am. Fish. Soc.* 117(2):217-221. 1988. Spanish summ. FR 33(4)

[Dep. Fish. & Wildl./Ecol. Cent., Utah State Univ., Logan 84322]

## VIRAL DISEASES

88-004639 Awad, M. A.; K. E. Nusbaum and Y. J. Brady. DEVELOPMENT OF A VACCINE FOR CHANNEL CATFISH VIRUS. *J. Fla. Acad. Sci.* 50(1):1-4. 1988. FR 33(4)

[Dep. Fish. & Allied Aquacult., Auburn Univ., Auburn, AL 36849]

- 04640 Bowser, Paul R.; Marilyn J. Wolfe, John E. Forney and Gregory A. W. Seasonal Prevalence of Skin Tumors from Walleye (*Stizostedion vitreum*) in Oneida Lake, New York. *J. Wildl. Dis.* 24(2):292-298. 1988. FR 33(4)  
 Dep. Avian. & Aquat. Anim. Med., N.Y. State Coll. Vet. Med., Cornell Univ., Ithaca, NY 14853
- 04641 Chumnongsitathum, B.; J. A. Plumb and V. Hilge. HISTOPATHOLOGICAL AND ELECTRON MICROSCOPY AND ISOLATION OF CHANNEL CATFISH VIRUS IN EXPERIMENTALLY INFECTED EUROPEAN CATFISH, *SILURUS GLANIS* L. *J. Fish Pathol.* 23(2):351-357. 1988. FR 33(4)  
 Plumb: Dep. Fish. & Allied Aquacult., Agric. Exp. Stn., Auburn Univ., Auburn, AL 36849
- 04642 Diamant, A.; D. A. Smail; L. McFarlane and A. M. Thomson. AN INFECTIOUS CREATIC NECROSIS VIRUS ISOLATED FROM COMMON DAB *LIMANDA LIMANDA* PREVIOUSLY AFFECTED WITH X-CELL DISEASE, A DISEASE APPARENTLY UNRELATED TO THE PRESENCE OF THE VIRUS. *Dis. Aquat. Org.* 4(3):223-227. 1988. FR 33(4)  
 Natl. Cent. Maricult., Israel Oceanogr. & Limnol. Res. Inst., Eilat, Israel]
- 04643 Kamei, Yuto; Mamoru Yoshimizu; Yoshio Ezura and Takahisa Kimura. IDENTIFICATION OF *PSEUDOMONAS* SP. 46 NW-04 WHICH PRODUCES ANTIVIRAL ACTIVITY AGAINST FISH VIRUSES. *Bull. Fac. Fish., Hokkaido Univ.* 39(2):124-132. 1988. In English  
 Lab. Microbiol., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]
- 04644 McAllister, K. W. and P. E. McAllister. TRANSMISSION OF INFECTIOUS CREATIC NECROSIS VIRUS FROM CARRIER STRIPED BASS TO BROOK TROUT. *Dis. Aquat. Org.* 4(2):101-104. 1988. FR 33(4)  
 U.S. Fish & Wildl. Serv., Fish Cult. Res. Lab., Box 700, Kearneysville, WV 26037  
*Salvelinus fontinalis* and *Morone saxatilis*.
- 04645 Oseko, Norihisa; Mamoru Yoshimizu; Shigeaki Gorie and Takahisa Kimura. HISTOPATHOLOGICAL STUDY ON DISEASED HIRAME (JAPANESE FLOUNDER, *PARALICHTHYS OLIVACEUS*) INFECTED WITH *RHABDOVIRUS OLIVACEUS* (HIRAME RABDOVIRUS; HRV). *Fish Pathol.* 23(2):117-123. 1988. In Japanese with English Summary  
 Kimura: Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]
- 04646 Oseko, Norihisa; Mamoru Yoshimizu and Takahisa Kimura. [EFFECT OF WATER TEMPERATURE ON ARTIFICIAL INFECTION OF *RHABDOVIRUS OLIVACEUS* (HIRAME RABDOVIRUS; HRV) TO HIRAME (JAPANESE FLOUNDER, *PARALICHTHYS OLIVACEUS*). *Fish Pathol.* 23(2):125-132. 1988. In Japanese with English Summary. FR 33(4)  
 Kimura: Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]
- 04647 Rodak, L.; Z. Pospisil; J. Tomanek; T. Vesely; T. Obr and L. Vojtech. CYTOME-LINKED IMMUNOSORBENT ASSAY (ELISA) DETECTION OF INFECTIOUS CREATIC NECROSIS VIRUS (IPNV) IN CULTURE FLUIDS AND TISSUE HOMOGENATES OF THE RAINBOW TROUT, *SALMO GAIARDNERI* RICHARDSON. *J. Fish Dis.* 11(3):223-228. 1988. FR 33(4)  
 Vet. Res. Inst., 62132 Brno, Czechoslovakia]
- 04648 Winton, J. R.; C. K. Arakawa; C. N. Lannan and J. L. Fryer. NEUTRALIZATION OF

- 83-004649 Yoshimizu, Mamoru; Makoto Tanaka and  
 [HISTOPATHOLOGICAL STUDY OF TUMORS INDUCED BY *ONCO-*  
 (OSV) INFECTION.] *Fish Pathol.* 23(2):133-138. 1988. In Japanese  
 33(4)  
 [Lab. Microbiol., Fac. Fish., Hokkaido Univ., Minato 3-1-1, Hakodate  
 and *O. masou*.

OTHER DISEASES AND PARASITES

- 88-004650 Adamson, M. L., G. B. Deets and G. W. Benz. DE  
 REDESCRIPTION OF FEMALE *PHLYCTAINOPHORA SQUALI* MURRAY  
 (NEMATODA; DRACUNCULOIDEA) FROM ELASMOBRANCHIIS. *Can. J. Zool.*  
 3010. 1987. In English with French summ. FR 33(4)  
 [Dep. Zool., Univ. British Columbia, Vancouver, BC, Canada  
*Acanthias*, *Heterodontus francisci*, *Prionace glauca*, and *Rhinobatos*

- 88-004651 Amr, Omar M. ACANTHOCEPHALA FROM LAKE FISHES  
 ECOLOGY OF *LEPTORHYNCHOIDES THECATUS* (RHADINORHYNCHUS)  
*Soc. Wash.* 95(2):252-255. 1988. FR 33(4)  
 [Dep. Biol. Sci., Univ. Wis.-Parkside, Box 2000, Kenosha 53142]

- 88-004652 Bergstedt, Roger A. and Clifford P. Schneider. A  
 SEA LAMPREY IMPACTS: RECOVERY OF DEAD LAKE TROUT WILDFISH  
*Assoc. Great. Lakes Res. Conf.* 30:A-4. 1987. Abstract only. FR 33(4)  
 [U.S. Fish & Wildl. Serv., Hammond Bay Biol. Stn., Rt. 1, Sault Ste. Marie,  
 49759] *Salvelinus namaycush*.

- 88-004653 Bergstedt, Roger A. and Clifford P. Schneider. ASS  
 (PETROMYZON MARINUS) PREDATION BY RECOVERY OF  
 (SAVELLINUS NAMAYCUSH) FROM LAKE ONTARIO, 1982-85.  
 45(8):1406-1410. 1988. In English with French summ. FR 33(4)  
 [U.S. Fish & Wildl. Serv., Hammond Bay Biol. Stn., Millersburg, Ohio]

- 88-004654 Bigler, Brian. FOCAL SCALE DAMAGE  
 (ONCORHYNCHUS KETA) OF THE BERING SEA AND THE GU  
 GEOGRAPHIC DISTRIBUTION AND STOCK IDENTIFICATION. *Bull. Fish. Res. Bd. Can.*  
 Univ. 39(2):80-85. 1988. In English. FR 33(4)  
 [Res. Inst. N. Pac. Fish., Fac. Fish. Hokkaido Univ., Hakodate]

- 88-004655 Bigler, Brian. FOCAL SCALE DAMAGE  
 (ONCORHYNCHUS KETA) OF THE BERING SEA AND THE GU  
 DISTRIBUTION AMONG PHYSICAL PARAMETERS. *Bull. Fish. Res. Bd. Can.*  
 39(2):71-79. 1988. In English. FR 33(4)  
 [Res. Inst. N. Pac. Fish., Fac. Fish., Hokkaido Univ., Hakodate]

004656 Boeger, Walter A. and Delane C. Kritsky. NEOTROPICAL MONOGENEAN CYCLOPSIDAE FROM *SERRASALMUS NATTERERI* (CYPRINIFORMES, SERRASALMIDAE) AND ASPECTS OF THEIR MORPHOLOGIC VARIATION AND DISTRIBUTION IN THE BRAZILIAN AMAZON. *Proc. Helminthol. Soc. Wash.* 55(2):188-213. 1988. FR 33(4) [Inst. Nac. Pesq. Amazonia, Manaus, Amazonas, Brazil]

004657 Bortz, B. M.; G. E. Kenny; G. B. Pauley and A. H. Bunt-Milam. PREVALENCE OF TWO SITE-SPECIFIC POPULATIONS OF *DIPLOSTOMUM* SPP. IN EYE INFECTIONS OF RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON, FROM LAKES IN WASHINGTON STATE, U.S.A. *J. Fish Biol.* 33(1):31-43. 1989. FR 33(4) [Coop. Fish. Res. Unit., School Fish., WH-10, Univ. Wash., Seattle 98195]

004658 Bowen, Charles A. II and Ralph M. Stedman. OCCURRENCE OF (*SALMOTUMESCENS*) ON BLOATERS (*COREGONUS HOYI*) FROM LAKE HURON. *Int. Assoc. Great Lakes Res. Conf.* 30:A-6. 1987. Abstract only. FR 33(4) [U.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green Rd., Ann Arbor, MI 48105]

004659 Bradley, Terence M.; Christian E. Newcomer and Kathleen O. McLaughlin. THE HELIOCYSTIS ASSOCIATED WITH MASSIVE MORTALITIES OF CULTURED LAKE TROUT, *Salvelinus namaycush*. *Dis. Aquat. Org.* 4(1):9-17. 1988. FR 33(4) [Dep. Fish., Anim. & Vet. Sci., Univ. R.I., Kingston 02881-0904]

004660 Bratney, John. A SIMPLE TECHNIQUE FOR RECOVERING LARVAL ASCARID PARASITIC OVIDES FROM THE FLESH OF MARINE FISH. *J. Parasitol.* 74(4):735-737. 1988. FR 33(4) [Dep. Fish. & Oceans, P.O. Box 5667, St. John's, NF, Canada A1C 5X6]

004661 Brinkmann, August, Jr. PRESENCE OF *OTODISTOMUM* SP. METACERCARIAE ON NORWEGIAN MARINE FISHES. *Sarsia* 73(1):79-82. 1988. FR 33(4) [Zool. Lab., Univ. Bergen, Allegaten 41, N-5007 Bergen, Norway]

004662 Bruce, Niel L. and Elizabeth B. Harrison-Nelson. NEW RECORDS OF PARASITIC MARINE ISOPOD CRUSTACEANS (CYMOTHOIDAE, SUBFAMILY ANILOPODINAE) FROM THE INDO-WEST PACIFIC. *Proc. Biol. Soc. Wash.* 101(3):585-602. 1988. FR 33(4) [Queensland Mus., P.O. Box 300, South Brisbane, Qld. 4101, Australia]

004663 Butler, S. A. TAXONOMY OF SOME TETRAPHYLLIDEAN CESTODES FROM ANGIOBRANCH FISHES. *Aust. J. Zool.* 35(4):343-371. 1987. FR 33(4) [Dep. Parasitol., Univ. Queensland, St. Lucia, Qld. 4067, Australia]

004664 Cairns, V. W. and J. D. Fitzsimons. PAPILOMAS AND LIVER NEOPLASMS OF WHITE SUCKERS. *Int. Assoc. Great Lakes Res. Conf.* 30:A-9. 1987. Abstract only. FR 33(4) [Great Lakes Lab. Fish. & Aquat. Sci., 867 Lakeshore Rd., Burlington, ON, Canada L7R 4A6] *Catostomus commersoni* in Lake Ontario.

FLUVIATILIS.] *Riv. Ital. Piscic. Ittiop.* 23(1):33-34, 37-38. 1988.  
summ. FR 33(4)

[Cattedra Zool., Ist. Malattie Infettive, Profilassi Polizia Vet.,  
Fac. Med. Vet., Univ. Bologna, Bologna, Italy]

88-004666 Ching, Hilda Lei. THE DISTRIBUTION OF  
*DIPHYLLOBOTHRIUM DENDRITICUM* (NITZSCH) IN SOCKEYE SALM  
*NERKA*) SMOLTS FROM GREAT CENTRAL LAKE, BRITISH COL  
66(4):850-852. 1988. In English with French summ. FR 33(4)

[Hydra Enterprises Ltd., P.O. Box 2184, Vancouver, BC, Canada]

88-004667 Chowhan, J. S.; N. K. Gupta and S. Khara. ON TWO S  
*PALLISENTIS* VAN CLEAVE, 1928 FROM FISHES OF GOBINDSAGAR  
OF THE GENUS *SACCOSENTIS* TADROS, 1966. *Res. Bull. Panjab U*  
1987. FR 33(4)

[Dep. Zool., Panjab Univ., Chandigarh, India] *Channa puncta*  
India.

88-004668 Cloutman, Donald G. DACTYLOGYRUS (MONOGENE  
FROM SEVEN SPECIES OF *NOTROPIS* (PISCES: CYPRINIDAE) IN  
RIVER DRAINAGE: DESCRIPTIONS OF FOUR NEW SPECIES AND  
RELATIONSHIPS. *Proc. Helminthol. Soc. Wash.* 55(2):214-223. 1988.

[Duke Power Co., Prod. Environ. Serv., Rt. 4, Box 531, Hun  
*ariommus*, *N. rubricroceus*, *N. leucodius*, *N. telescopus*  
*chrysocephalus*, *N. coccogenis*, and *N. rubellus*.

88-004669 Cone, David K. and Paul H. Odense. LIGHT AND  
MICROSCOPE STUDIES OF *FUNDULOTREMA PROLO*  
*GYRODACTYLIDAE*) PARASITIZING *FUNDULUS DIAPHANUS* (C  
NOVA SCOTIA, CANADA, WITH AN EMENDED DIAGNOSIS OF  
*Helminthol. Soc. Wash.* 55(2):224-228. 1988. FR 33(4)

[Dep. Biol., St. Mary's Univ., Halifax, NS, Canada B3H 3C3]

88-004670 Cressey, Roger and Colin Simpfendorfer. *PSEUDOPAN*  
NEW SPECIES OF PANDARID COPEPOD FROM AUSTRALIAN SHA  
*Wash.* 101(2):340-345. 1988. FR 33(4)

[Dep. Invertebr. Zool., NIIB-163, Smithsonian Inst., Wa  
*Rhizoprionodon oculus*, *Carcharhinus dussumieri*, *Hemigaleus micr*  
*R. taylori*.

88-004671 Cusack, R.; T. Rand and D. Cone. A STUDY OF BACT  
ASSOCIATED WITH THE BODY SURFACE OF *CYRODACTYLUS CO*  
KRITSKY, 1967 (MONOGENEA), PARASITIZING *SALMO CAIRDNER*  
*Dis.* 11(3):271-274. 1988. FR 33(4)

[Cone: Dep. Biol., St. Mary's Univ., Halifax, NS, Canada B3H 3C3]

88-004672 Czarnecki, Z. and A. Bernard. INFECTION OF THE SWI  
THE OLSZTYN DISTRICT. *Cospodadarka Rybna* 39(9):15-16. 1987  
summ. From Protozool. Abstr. 12(5):1244. 1988. FR 33(4)

[ZHW Pracownia Chorob Ryb, Olsztyn, Poland] *Cyprinus carpio*.



004673 ...  
TEZ. *Can. J. Zool.* 66(4):866-874. 1988. In English with French summ. FR 33(4)  
Dep. Zool., Univ. British Columbia, 6270 University Blvd., Vancouver, BC, Canada  
1)

004674 Duggal, C. L. and Harpreet Kaur. *RHABDOCHIONA MORAVECI* SP. N. (NEMATODA: RHABDOCHIONIDAE) FROM A FRESHWATER FISH, *BARBUS TOR* IN PUNJAB, INDIA. *Res. Bull. Panjab Univ. Sci.* 39(3-4):137-139. 1987. FR 33(4)  
Dep. Zool., Panjab Univ., Chandigarh, India]

004675 Dyer, William G.; Ernest H. Williams, Jr. and Lucy Bunkley Williams. GENETIC TREMATODES OF MARINE FISHES OF OKINAWA, JAPAN. *J. Parasitol.* 74(4):638-645. 1988. FR 33(4)  
Dep. Zool., South. Ill. Univ., Carbondale 62901]

004676 Gelnar, M. EXPERIMENTAL VERIFICATION OF THE EFFECT OF THE TEMPERATURE (SCALELESS) OF CARP HOST (*C. CARPIO* L.) ON THE GROWTH RATE OF PROPOPOULATIONS OF *GYRODACTYLUS KATHARINERI* MALMBERG, 1964 (MONOGENEAN). *Parasitol.* 34(4):305-309. 1987. In English with Russian summ. From *Helminthol. J. A Anim. Human Helminthol.* 57(6):1522. 1988. FR 33(4)  
Parazyt. ustav CSAV, Branisovska 31, 370 05 Cesko Budejovica, Czechoslovakia  
*orinus carpio.*

004677 Greenwood, S. J. and M. R. Baker. *CYSTITICOLOIDES EPHEMERIDAE* (NEMATODA: NEMATODINAE) IN SPECKLED TROUT, *SALVELINUS FONTINALIS*, IN SOUTHERN ONTARIO. *Can. J. Zool.* 65(11):2589-2593. 1987. In English with French summ. FR 33(4)  
Dep. Zool., Univ. Guelph, Guelph, ON, Canada N1G 2W1]

004678 Ho, Ju-Shey and Masahiro Dojiri. *MECADEROCHONDRIA PILGRIMI* GEN. ET SP. NOV., A CHONDROCANTHID COPEPOD PARASITIC ON A NEW ZEALAND MULLET, *KATHETOSTOMA CIGANTEUM* HAAS (TELEOSTEI: URANOSCOPIDAE). *N.Z. J. Zool.* 15(4):615-620. 1987. FR 33(4)  
Inst. Parasitol., Dep. Biol., Calif. State Univ., Long Beach 90840]

004679 Hoffmann, R. W.; Th. Fischer-Scherl and C. Pfeil-Putzien. LYMPHIOSIS IN A WILD GRAYLING, *THYMALLUS THYMALLUS* L.: A CASE REPORT. *J. Fish Diseases* 11(3):267-270. 1988. FR 33(4)  
Inst. Zool. & Hydrobiol., Univ. Munich, Kaulbachstr. 37, D-8000 Munich 22, Germany]

004680 Hogans, W. E. *PSEUDOLERNAEOPODINA SYNAPHOBRANCHI* N. GEN., NEW GENUS (COPEPODA: LERNAEOPODIDAE) FROM THE EYE OF *SYNAPHOBRANCHIUS* JENYNS, 1862, IN THE NORTHWEST ATLANTIC OCEAN. *J. Parasitol.* 74(5):863-868. FR 33(4)  
Huntsman Mar. Sci. Cent., St. Andrews, NB, Canada E0G 2X0]

004681 Hogans, W. E. REVIEW OF *SARCOTRETES* JUNGENSEN, 1911 (COPEPODA: SARCOTRETELIDAE) FROM MIDWATER AND DEMERSAL FISHES IN THE NORTH ATLANTIC OCEAN. *Can. J. Zool.* 66(6):1371-1375. 1988. In English with French summ. FR 33(4)  
Huntsman Mar. Lab., St. Andrews, NB, Canada E0G 2X0]

- 88-004682 Hyslop, E. J. FIRST OCCURRENCE OF *ACANTHOCYRUS* 1948) IN *HEMICHROMIS* SPECIES. *J. Fish. Biol.* 33(3):491-492. 1988. F  
[Dep. Biol., Univ. Swaziland, Private Bag No. 4, Kwaluseni, Swaziland  
Nigeria.]
- 88-004683 Joy, James E. MONTHLY LENGTH CLASS FREQUENCIES OF  
*SPINICIRRUS* (MONOGENEA: MICROCOTYLIDAE) FROM THE FISH  
*APLODINOTUS CRUNNIENS*, IN WEST VIRGINIA. *Proc. Helminthol. Soc.*  
25(1). 1988. FR 33(4)  
[Dep. Biol. Sci., Marshall Univ., Huntington, WV 25701]
- 88-004684 Kabata, Z.; G. A. McFarlane and D. J. Whitaker. TREMATODE  
*ANOPLOPOMA FIMBRIA* (PALLAS, 1811), AS POSSIBLE BIOLOGICAL  
IDENTIFICATION. *Can. J. Zool.* 66(1):195-200. 1988. In English with  
33(4)  
[Dep. Fish. & Oceans, Pac. Biol. Stn., Nanaimo, BC, Canada V9R 5K6]
- 88-004685 Kaneko, J. J. II; R. Yamada; J. A. Brock and R. M. Nakano  
TILAPIA, *OREOCHROMIS MOSSAMBICUS* (TREWAVAS), BY A MALE  
*NEOBENEDENIA MELLENI* (MACCALLUM, 1927) YAMAGUTI, 1963  
HAWAII, USA, AND ITS TREATMENT. *J. Fish Dis.* 11(4):295-300. 1988  
[Brock: Aquacult. Dev. Program, 335 Merchant St., Rm. 359, Honolulu, HI  
96813]
- 88-004686 Khan, R. A. EFFECTS OF CHRONIC EXPOSURE TO  
HYDROCARBONS ON TWO SPECIES OF MARINE FISH INFECTED WITH  
*TRYPANOSOMA MURMANENSIS*. *Can. J. Zool.* 65(11):2703-2709. 1987  
French summ. FR 33(4)  
[Mar. Sci. Res. Lab., Memorial Univ. Newfoundland, St. John's, NL  
A1B 4X9, Canada. *Pleuronectes platessa* and *Pseudopleuronectes americanus*.]
- 88-004687 Khan, R. A. EXPERIMENTAL TRANSMISSION, DEVELOPMENT  
OF A PARASITIC COPEPOD, *LERNAEOCERA BRANCHIALIS*, ON ATLANTIC  
*MORHUA*. *J. Parasitol.* 74(4):586-599. 1988. FR 33(4)  
[Dep. Biol. & Mar. Sci. Res. Lab., Memorial Univ. Newfoundland, St. John's,  
NL A1B 4X9, Canada. *Morhua morhua*. AIC 557]
- 88-004688 Leaman, B. M. and Z. Kabata. *NEOBRACHIELLA ROBUS*  
(COPEPODA: LERNAEOPODIDAE) AS A TAG FOR IDENTIFICATION OF  
HOST, *SEBASTES ALUTUS* (GILBERT, 1890) (PISCES: TELEOSTEI).  
65(11):2579-2582. 1987. In English with French summ. FR 33(4)  
[Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nanaimo, BC  
V9R 5K6]
- 88-004689 Lopes, Ruberval A.; Alfredo Nuti-Sobrinho; Heid S. Leme  
V. Paula-Lopes. VERTEBRAL ABNORMALITIES IN SILVER MULLUS  
*VALENCIENNES* 1836, PISCES: MUGILIDAE). *Riv. Ital. Piscic. Ittlop.*  
English with Italian summ. FR 33(4)  
[Dep. Estomatol., Fac. Odontologia Ribeirao Preto, 14050 Ribeirao Preto,  
SP, Brazil.]

- 004690 Mac, Michael and Carol C. Edsall. PATHOLOGY OF LAKE TROUT FRY IN THE EASTERN LAKE MICHIGAN SUFFERING POST SWIM-UP MORTALITY. *Int. J. Great Lakes Res. Conf.* 30:A-10. 1987. Abstract only. FR 33(4)  
[J.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green Rd., Ann Arbor, MI 48105] *Salvelinus namaycush*.
- 004691 Misra, A. and N. C. Nandi. A NEW HOST RECORD OF *CYMOTHOA INDIANAE* (DIOETIDE AND MEINERT) (CRUSTACEA: ISOPODA) FROM SUNDARBANS, WEST BENGAL. *Indian J. Fish.* 33(2):229-231. 1986. FR 33(4)  
[Zool. Surv. India, Calcutta, India] *Strongylura strongylura*.
- 004692 Miyazaki, T.; W. A. Rogers and K. J. Semmens. GASTRO-INTESTINAL PATHOLOGY OF PADDLEFISH, *POLYODON SPATHULA* (WALBAUM), INFECTED WITH *HYSTEROETHYLACIUM DOLLFUSI* SCHMIDT, LEIBY & KRITSKY, 1971. *J. Fish Dis.* 11(3):245-250. 1988. FR 33(1)  
[Rogers: Dep. Fish & Allied Aquacult., Auburn Univ., Auburn, AL 36819]
- 004693 Molnar, K. and E. Kovacs-Gayer. OBSERVATIONS ON THE INTRACELLULAR COELOZOIC DEVELOPMENTAL STAGES OF *HOFERELLUS CYPRINI* (DOFLEIN, 1901) (CILIOPHORA: COLEPILIDAE). *Parasitol. Hung.* 19:27-30. 1986. In English with Hungarian summary. From *Protozool. Abstr.* 12(5):1245. 1988. FR 33(4)  
[Vet. Med. Res. Inst., Hungarian Acad. Sci., Budapest, Hungary] *Cyprinus carpio*.
- 004694 Murad, A. and S. Mustafa. BLOOD PARAMETERS OF CATFISH, *PLOCELOPNEUSTES FOSSILIS* (BLOCH), PARASITIZED BY METACERCARIAE OF *DIPLOSTOMUM* SP. *J. Fish Dis.* 11(4):365-368. 1988. FR 33(4)  
[Dep. Biol. Sci., Brock Univ., St. Catharines, ON, Canada L2S 3A1]
- 004695 Muzzall, Patrick M. and C. Robert Peebles. HELMINTHS OF RAINBOW SMELT, *OSMERUS MORDAX*, FROM FIVE LOCALITIES IN LAKE HURON AND LAKE MICHIGAN, WITH A BASIS ON *DIPLOSTOMUM SPATHACEUM*. *Proc. Helminthol. Soc. Wash.* 55(2):281-284. 1988. FR 33(4)  
[Dep. Nat. Sci., N. Kedzie Lab., Mich. State Univ., East Lansing 48824]
- 004696 Nash, G.; R. J. Roberts; Supranee Chinabut; Sopa Aroerat and C. Limsakul. PATHOLOGY AND PARASITIC ASSOCIATION OF POND-CULTURED SNAKEHEAD, *CHANNA STRIATUS* (FOWLER). *J. Fish Dis.* 11(3):215-224. 1988. FR 33(4)  
[Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, Scotland]
- 004697 Nemetz, T. G. and J. R. MacMillan. WOUND HEALING OF INCISIONS CURED WITH A CYANOACRYLATE ADHESIVE. *Trans. Am. Fish. Soc.* 117(2):190-195. 1988. FR 33(4)  
[Coll. Vet. Med., Drawer V, Mississippi State 39762] *Ictalurus punctatus*.
- 004698 Petter, Annie J. and Serga Morand. [NEMATODE PARASITES OF PARAGUAYAN FISHES. IV. REDESCRIPTION OF *SPINITECTUS JAMUNDENSIS* THATCHER ET PADGETT (CYSTIDICOLIDAE, NEMATODA).] *Rev. Suisse Zool.* 95(2):377-384. 1988. In French with English summ. FR 33(4)  
[Lab. vers., (CNRS), Mus. Natl. Hist. Nat., 61 rue Buffon, F-75231 Paris Cedex 12] *Leporinus striatus*.

THE STRUCTURING OF A SALT MARSH STICKLEBACK COMMUNITY

65(11):2793-2798. 1987. In English with French summ. FR 33(4)

[FitzGerald: Dep. Biol., Univ. Laval, Sainte-Foy, PQ, Canada C  
*aculeatus*, *G. wheatlandi*, and *Pungitius pungitius* in Canada.

88-004700 Priemer, J. ON THE LIFE-CYCLE OF PROTEOCEPHALUS FROM SALMO GAIRDNERI (PISCES). *Helminthologia (Bratisl.)* 24(1):7 with Russian, German, and Czech. summ. FR 33(4)

[Akad. Wissenschaft. DDR, Forschungsstelle Wirbeltierforsch., Berlin, East Germany]

88-004701 Prieto, A.; M. Vinjoy; E. Fajer and V. Garcia. CYCLOANCISTRUM: FIRST REPORT FROM CUBA. *Rev. Salud Anim.* Spanish with English summ. From *Helminthol. Abstr. Ser. A Anim.* 57(6):1532. 1988. FR 33(4)

[Empresa Nac. Acuicult., Carretera Cent. Km 20, Cotorro, Habana, Cuba]

88-004702 Robert, F.; F. Renaud; E. Mathieu and C. Gabrion. PARATENIC HOST IN THE BIOLOGY OF *BOTHRIOCEPHALUS GRACIOSUS* (PSEUDOPHYLLIDEA), A PARASITE OF THE TURBOT. *Int. J. Parasitol.* 1988. FR 33(4)

[Lab. Parasitol. Comp., U.A. 698 CNRS, Univ. Sci. & Tech. Lang. Montpellier, 34060 Montpellier Cedex, France] *Psetta maxima* in France.

88-004703 Scholz, Tomas. ON THE OCCURRENCE OF ENDOPARASITES OF PERCH (*PERCA FLUVIATILIS* L.) FROM THE MACHA LAKE IN THE WESTERN PART OF CZECHOSLOVAKIA. *Acta Univ. Carolinae Biol.* 1985(5-6):301-318. 1985. FR 33(4)

[Inst. Parasitol., Czechoslovak Acad. Sci., Branisovska 31, 370 00 Brno, Czechoslovakia]

88-004704 Scott, J. S. HELMINTH PARASITES OF REDFISH (*SCOTIAE MACULATA*) FROM THE SCOTIAN SHORE, BAY OF FUNDY, AND EASTERN GULF OF ST. LAWRENCE. *Zool.* 66(3):617-621. 1988. In English with French summ. FR 33(4)

[Mar. Fish Div., Dep. Fish. & Oceans, Biol. Stn., St. Andrews, NB, Canada]

88-004705 Scott, Marilyn E. EXPERIMENTAL EPIDEMIOLOGY OF *BULLATARUDIS* (MONOGENEA) ON GUPPIES (*POECILIA RETICULATA*). LONG-TERM STUDIES. *Linn. Soc. Symp. Ser. No. 11* p. 21-38. 1985. FR 33(4)

[Inst. Parasitol., Macdonald Coll. McGill Univ., 21,111 Lakeshore Rd., Ste. Bellevue, PQ, Canada H9X 1C0]

88-004706 Szalai, Alexander J. and Terry A. Dick. HELMINTHS OF THE SCOTIAN TROUT (*SALMO GAIRDNERI*) WITH SPECIAL REFERENCE TO *COMPLANATUM*. *J. Wildl. Dis.* 24(3):456-460. 1988. FR 33(4)

[Dep. Zool., Univ. Manitoba, Winnipeg, MB, Canada R3T 2N2]

88-004707 Tantalean V., Manuel and Jose Rodriguez. [NEW RECORDS OF HELMINTHS FROM ELASMOBRANCHIAN FISHES FROM THE COAST OF PERU]. *Trop. Zool.* 35(1):167-168. 1987. In Spanish with English summ. FR 33(4)

[Inst. Med. Trop. "Daniel A. Carrion", Univ. Nac. Mayor San Marcos, 100, Peru]

- 04708 Taraschewski, Horst. HOST-PARASITE INTERFERENCE OF ANTHOCEPHALANS. I. *ACANTHOCEPHALUS ANGUILLAE* (PALAEACANTHOCEPHALUS) NATURALLY INFECTED FISHES: I.M AND TEM INVESTIGATIONS. *Dis. Aquat.* 109-119. 1988. FR 33(4)  
Inst. Spezielle Zool. & Parasitol., Ruhr-Univ.-Bochum, D-4630 Bochum, West Germany  
*A. tinca*, *Abramis brama*, *Anguilla anguilla*, *Rutilus rutilus*, *Alburnus alburnus*, *Carassius auratus*, *S. gairdneri*, *Leuciscus leuciscus*, and *L. cephalus*.
- 04709 Thyagarajah, A. and M. E. Bender. LESIONS IN THE PANCREAS AND GASTROINTESTINAL TRACT OF THE OYSTER TOADFISH, *OPSANUS TAU* (L.), COLLECTED FROM THE LOWER RIVER, VIRGINIA, USA. *J. Fish Dis.* 11(4):359-364. 1988. FR 33(4)  
Inst. Mar. Sci. & School Mar. Sci., Coll. William & Mary, Gloucester Point, VA 23062
- 04710 Tiokotter, Kenneth L. HISTOFLUORESCENT AND ULTRASTRUCTURAL IDENTIFICATION OF AMINERGIC PROCESSES IN THE OPISTHAPTOR OF THE MEGALOPTERAN, *MICROCOTYLE SEBASTES* (POLYOPISTHOCOTYLEA: MICROCOTYLELLA). *Helminthol. Soc. Wash.* 55(2):229-245. 1988. FR 33(4)  
Electron Microscopy Res. Facility, Dep. Ophthalmol., Good Samaritan Hospital & Medical Center, 1015 N.W. 22nd Ave., Portland, OR 97210] *Sebastes melanops*.
- 04711 Wyatt, R. J. and C. R. Kennedy. THE EFFECTS OF A CHANGE IN GROWTH RATE OF ROACH, *RUTILUS RUTILUS* (L.), ON THE BIOLOGY OF THE PARASITIC WORM *LIGULA INTESTINALIS* (L.). *J. Fish Biol.* 33(1):45-57. 1988. FR 33(4)  
Fish. Tech. Unit, Welsh Water, Highfield, Priestly Rd., Caernarfon, Gwynedd, Wales
- 04712 Yang Tong. [TWO MARINE LEECHES FROM AN ANTARCTIC FISH OF THE GENUS *NOTOTHENIA*.] *Acta Zool. Sin.* 33(4):373-377. 1987. In Chinese with English summary. FR 33(4)  
Inst. Hydrobiol., Acad. Sinica, Wuhan, China]
- POLLUTION**
- 04713 Alabaster, John S. THE CONFLICT BETWEEN WATER POLLUTION AND FISHERIES. In: *Allocation of Fishery Resources*. John H. Grover, editor, p. 9-15. 1987. English with French summ. FR 33(4)  
Water Res. Cent., Stevenage Lab., Elder Way, Stevenage, Herts SG1 1TH, England
- 04714 Arruda, Joseph A.; M. Steve Cringan; William G. Layher; Garland Kersner; Charles Bever. PESTICIDES IN FISH TISSUE AND WATER FROM TUTTLE CREEK, MISSOURI. *Environ. Contam. Toxicol.* 41(4):617-624. 1988. FR 33(4)  
Dep. Health & Environ., Div. Environ., Forbes Field, Topeka, KS 66620] *Cyprinus carpio* and *Morone saxatilis*.
- 04715 Atasi, Khalil Z. STUDY OF THE POTENTIAL IMPACT OF THE DWTP PLANT ON THE AQUATIC ECOLOGICAL HABITAT OF THE DETROIT RIVER. *Int. Assoc. Great Lakes Res. Conf.* 30:A-2. 1987. Abstract only. FR 33(4)  
Water & Sewerage Dep., 9300 W. Jefferson, Detroit, MI 48209]

88-004717 Budihna, Natasa and Joza Vovk. THE PERCENTAGE OF HATCHING TROUT (*SALMO TRUTTA M. FARIO L.*) IN THE KAMNISKA BISTRICA STRAIT. 1988. In Serbo-Croatian and English. FR 33(4)

[Fish. Res. Inst., Ljubljana, Zupanciceva 9, Yugoslavia]

88-004718 Burbridge, Peter R. COASTAL AND MARINE RESOURCE MANAGEMENT OF THE STRAIT OF MALACCA. *Ambio* 17(3):170-177. 1988. FR 33(4)

[House of Ross, Comrie, Perthshire PH6 2JS, Scotland]

88-004719 Cairns, John, Jr., editor. COMMUNITY TOXICITY TESTING. *Publ. No. 920. 350p. 1986. FR 33(4)*

[VPICSU, Blacksburg, VA] Selected chapters indexed in this issue of J

88-004720 Capel, Paul D.; Walter Giger; Peter Reichert and Oskar Walther. INPUT OF PESTICIDES INTO THE RHINE RIVER. *Environ. Sci. Tech.* 1988. FR 33(4)

[U.S. Geol. Surv., St. Paul, MN 55101]

88-004721 Carlson, C.; P. Eaton; M. Flexner; C. Gay; B. Lonik; J. Sawin; J. A. Foran; G. Goudy and R. Moore. THE SAGINAW BAY/SAWYER RIVER ESTUARY. *Int. Assoc. Great Lakes Res. Conf. 30:A-10. 1987. Abstract only. FR 33(4)*

[Univ. Mich., MDNR, Ann Arbor 48109]

88-004722 Connolly, J. P.; D. M. di Toro and R. P. Winfield. ANALYSIS AND BIOACCUMULATION OF PCB HOMOLOGS IN SAGINAW BAY. *Int. Assoc. Great Lakes Res. Conf. 30:A-13. 1987. Abstract only. FR 33(4)*

[Manhattan Coll., Bronx, NY 10471]

88-004723 Cuinat, Robin. [MAIN EFFECTS UPON AQUATIC LIFE OF SAND PUT INTO THE ALLIER RIVER BY SAND AND GRAVEL EXTRACTION]. *Fishery Resources. John H. Grover, editor. p. 40-46. 1980. In French with English summ. FR 33(4)*

[84 Ave. du Puy-de-Dome, 63000 Clermont-Ferrand, France]

88-004724 Detollenaere, A. and J.-C. Micha. [IMPACT OF THERMOCLINE ON FISH OF THE MEUSE.] *In: Allocation of Nuclear Power Station on Fish of the Meuse. John H. Grover, editor. p. 71-76. 1980. In French with English summ. FR 33(4)*

[Lab. Ecol. Eaux Douces, Fac. Univ. N.-D. Paix, Rue Bruxelles 1050, Belgium]

88-004725 DeVault, David S.; J. Milton Clark; Gareth Lahvis and J. Milton Clark. CONTAMINANTS AND TRENDS IN FALL RUN COHO SALMON. *J. Great Lakes Res.* 1988. FR 33(4)

[U.S. Environ. Protection Agency, Great Lakes Natl. Program Off., Staff, 230 S. Dearborn St., Chicago, IL 60605] *Oncorhynchus kisutch* in

- 004726 Essink, Karel. DECREASING MERCURY POLLUTION IN THE DUTCH WADZEE AND EMS ESTUARY. *Mar. Pollut. Bull.* 19(7):317-319. 1988. FR 33(4)  
[Rijkswaterstaat, Tidal Waters Div., P.O. Box 270, 9750 AE Haren, Netherlands] *Zoology*.
- 004727 Fischer-Scherl, Theresia and Rudolf W. Hoffmann. GILL MORPHOLOGY OF FIVE BROWN TROUT *SALMO TRUTTA M. FARIO* EXPERIENCING ACUTE AND CHRONIC POLLUTION. *Dis. Aquat. Org.* 4(1):43-51. 1988. FR 33(4)  
[Inst. Zool. & Hydrobiol., Univ. Munchen, Kaulbachstr. 37, D-8000 Munich 22, Germany]
- 004728 Gonin-Maurisse, M. and J.-C. Michu. [IMPACT OF RADIOACTIVE WASTES FROM A PWR-TYPE NUCLEAR POWER STATION ON FISH OF THE MEUSE.] *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 138-145. 1980. In French with English summary. FR 33(4)  
[Lab. Ecol. Eaux Douces, Fac. Univ. N.-D. Paix, Rue Bruxelles 61, B-5000, Namur, Belgium]
- 004729 Gilderhus, P. A.; V. K. Dawson and J. L. Allen. DEPOSITION AND PERSISTENCE OF ROTENONE IN SHALLOW PONDS DURING COLD AND WARM SEASONS. *Fish Wildl. Serv. Invest. Fish Control No. 95.* 7p. 1988. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cent., P.O. Box 818, La Crosse, WI 54601] *Micropterus punctatus*, *I. melas*, *Micropterus salmoides*, and *Lepomis macrochirus* In Wisconsin
- 004730 Gomez, Edgardo D. OVERVIEW OF ENVIRONMENTAL PROBLEMS IN THE WESTERN PACIFIC OCEAN SEAS REGION. *Ambio* 17(3):166-169. 1988. FR 33(4)  
[Mar. Sci. Inst., Univ. Philippines, U.P.P.O. Box 1, Diliman, Quezon City, Philippines]
- 004731 Gutierrez-Galindo, Efrain Abraham and Gilberto Flores Munoz. BIOLOGICAL AVAILABILITY OF MERCURY IN COASTAL SEAWATERS OF NORTHERN BAJA CALIFORNIA. *Mar. (Mex.)* 12(2):85-98. 1986. In Spanish and English. FR 33(4)  
[Inst. Invest. Oceanol., Univ. Autonoma Baja Calif., Apdo. Postal 453, Ensenada, Baja California]
- 004732 Hughes, Robert M. and Gerald E. Davis. PRODUCTION OF COEXISTING JUVENILE COHO SALMON AND STEELHEAD TROUT IN HEATED MODEL STREAM COMMUNITIES. *ASTM Spec. Tech. Publ.* No. 920. p. 322-337. 1986. FR 33(4)  
[Northrop Serv., Inc., Corvallis, OR 97333] *Salmo gairdneri* and *Oncorhynchus kisutch*
- 004733 Hungspreugs, Manuwadi. HEAVY METALS AND OTHER NON-OIL POLLUTANTS IN THE SOUTHEAST ASIA. *Ambio* 17(3):178-182. 1988. FR 33(4)  
[Dep. Mar. Sci., Fac. Sci., Chulalongkorn Univ., Phya Thai Rd., Bangkok 10330, Thailand]
- 004734 Jones, Howard. PROTECTING WA'S MARINE ENVIRONMENT FROM OIL SPILLS. *Mar. Res.* 20(6):20-24. 1987. FR 33(4)
- 004735 Keck, Gerard. [RELATIONS BETWEEN CHEMICAL POLLUTION AND FISH HEALTH AND WHOLESOMENESS.] *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 138-145. 1980. In French with English summary. FR 33(4)

- 88-004736 Mitchell, James F.; Marlene S. Evans; Donald Scavia and  
REGULATION OF WATER QUALITY IN LAKE MICHIGAN; REPORT  
WORKSHOP. *J. Great Lakes Res.* 14(1):109-114. 1988. FR 33(4)  
[Cent. Limnol., Univ. Wis., Madison 53706] *Alosa pseudoharengus*.
- 88-004737 Klaine, S. J.; M. L. Hinman; D. A. Winkelmann, K. R.  
and L. W. Moore. CHARACTERIZATION OF AGRICULTURAL NO  
PESTICIDE MIGRATION IN A WEST TENNESSEE WATERSHED. *Env*  
7(8):609-614. 1988. FR 33(4)  
[Dep. Biol. & Civil Eng., Memphis State Univ., Memphis, TN 38152]
- 88-004738 Leynaud, G. [EFFECTS OF INCREASED WATER TEMPERAT  
*In: Allocation of Fishery Resources, John H. Grover, editor.* p. 222-  
with English summ. FR 33(4)  
[14, Ave. Saint-Mande, 75012 Paris, France]
- 88-004739 Leynaud, G. [RELATIONS BETWEEN POLLUTION AND QU  
*In: Allocation of Fishery Resources, John H. Grover, editor.* p. 232-  
with English summ. FR 33(4)  
[14, Ave. Saint-Mande, 75012 Paris, France]
- 88-004740 Lockerbie, D. M. and T. A. Clair. ORGANIC CONTAMI  
LAKES OF SOUTHERN LABRADOR, CANADA. *Bull. Environ. Contam*  
632. 1988. FR 33(4)  
[Water Quality Branch, Environ. Canada, P.O. Box 861, Moncton,  
*Salvelinus namaycush*, *S. alpinus*, *S. fontinalis*, *Cotostomus commersoni*,  
*Esox lucius*, *E. mosquinongy*, and *Coregonus clupeoformis*.
- 88-004741 Manville, Albert M. II. NEW TECHNOLOGIES DEALING W  
POLLUTION AND EFFORTS AT MITIGATION. *Trans. N. Am. Wildl.*  
53:191-203. 1988. FR 33(4)  
[Defenders Wildl., Washington, DC]
- 88-004742 Marcovecchio, Jorge Eduardo; Victor Jorge Moreno  
DETERMINATION OF HEAVY METAL CONCENTRATIONS IN BIOTA  
ARGENTINA. *Sci. Total Environ.* 75(2-3):181-190. 1988. FR 33(4)  
[Inst. Nac. Invest. & Desarrollo Pesquero (INIDEP), C.C. 175, Pla  
Mar del Plata, Argentina]
- 88-004743 Miller, David L.; Paul M. Leonard; Robert M. Hughes; Jar  
Moyle; Lynn H. Schrader; Bruce A. Thompson; Robert A. Daniels;  
A. Fitzhugh; James R. Gammon; David B. Halliwell; Paul L. Angermeier  
REGIONAL APPLICATIONS OF AN INDEX OF BIOTIC INTEGRITY  
RESOURCE MANAGEMENT. *Fisheries (Bethesda)* 13(5):12-20. 1988. FR  
[Hughes: Northrop Serv., Inc., 200 SW 35th St., Corvallis, OR 973
- 88-004744 Nriagu, Jerome O. and Angela de Luca Rebello Wagener  
OF TROPICAL MARINE SYSTEMS. PROCEEDINGS OF THE SEC  
CONFERENCE, RIO DE JANEIRO, BRAZIL, 1-5 SEPTEMBER 1987. *Sci.*



8-004745 Ramsey, Daniel L. and Donald G. Brannon. PREDICTED ACID MINE DRIP IMPACTS TO THE BUCKHANNON RIVER, WV, U.S.A. *Water Air Soil Pollut.* 39(1/2):1-8. 1989. FR 33(4)  
[School For., Fish & Wildl., Univ. Mo., Columbia 65201]

8-004746 Regens, James L. and Robert W. Rycroft. THE ACID RAIN CONTROL PROBLEM. *Univ. Pittsburgh Press* 228p. 1988. Available from Univ. Pittsburgh Press, Pittsburgh, PA. \$26.00 at \$24.95 Cloth; \$12.95 Paperback. FR 33(4)

8-004747 Rice, T. R.; D. W. Engel and F. A. Cross. POTENTIAL EFFECTS OF RADIOACTIVE RELEASES TO THE AQUATIC ENVIRONMENT. In: *Allocation of Resources*. John H. Crover, editor. p. 308-319. 1980. In English with French summary. FR 33(4)  
[Beaufort Lab., Southeast Fish. Cent., Beaufort, NC 28516]

8-004748 Robertson, Thomas Edward. CARBON FLOW IN AN AGRICULTURAL ECOSYSTEM. *Ph.D. dissertation, Iowa State Univ.* 165p. 1987. From Diss. Abstr. Int. Sci. Eng. 49(2):299. 1988. FR 33(4)

8-004749 Rosenberg, Rutger and Hans Blanck. SILENT SPRING IN THE SEA. *Mar. Biol.* 7(4):289-290. 1988. FR 33(4)  
[Univ. Gothenburg & Kristineberg Mar. Biol. Stn., S-450 34 Fiskebackskil, Sweden]  
*Abrus berggylta, Salmo gairdneri, Clupea harengus, and Raniceps raninus* in Europe

8-004750 Ruyabhorn, Pravit and Dhira Phantumvanit. COASTAL AND ESTUARINE RESOURCES OF THAILAND - EMERGING ISSUES FACING AN INDUSTRIALIZING COUNTRY. *AMBIO* 17(3):229-232. 1988. FR 33(4)  
[Thailand Dep. Res. Inst., 15th Floor, Rajapark Bldg., 163 Asoke Rd., Bangkok, Thailand]

8-004751 Saecker, John R. and William S. Woolcott. THE REDBREAST SUNFISH (*Lepomis auritus*) IN A THERMALLY INFLUENCED SECTION OF THE JAMES RIVER, VIRGINIA. *Can. J. Fish. Aquat. Sci.* 39(1):1-17. 1988. FR 33(4)  
[Biol. Dep., Univ. Richmond, Richmond, VA 23173]

8-004752 Schindler, D. W. EFFECTS OF ACID RAIN ON FRESHWATER ECOSYSTEMS. *Science* 239(4836):149-157. 1988. FR 33(4)  
[Dep. Fish. & Oceans, Freshwater Inst., 501 University Crescent, Winnipeg, MB R2T 2N6]

8-004753 Schrader, Mary Elizabeth. EFFECTS OF ACID RAIN ON THE pH AND ALKALINITY OF A HARDWATER LAKE IN CENTRAL MICHIGAN. *M.S. Thesis, Central Michigan Univ.* 49p. 1985. From Masters Abstr. Int. 24(1):43. 1986. FR 33(4)

8-004754 Schreiber, R. Kent and James R. Newman. ACID PRECIPITATION EFFECTS ON FOREST HABITATS: IMPLICATIONS FOR WILDLIFE. *Conserv. Biol.* 2(3):249-259. 1988. FR 33(4)

88-001755 Schroder, Johannes Horst and Karin Peters. DIFFERENTIAL ACTIVITY AND ALTERATIONS OF REPRODUCTIVE SUCCESS OF COMPENSATING SPECIES (*POECILIA RETICULATA* PETERS; PISCES: POECILIIDAE) AS AN INDICATOR OF CONCENTRATIONS OF AQUATIC POLLUTANTS. *Bull. Environ. Contam. Toxicol.* 39(1):1-6. 1988. FR 33(4)  
[Assoc. Radiation & Environ. Res. Munich, Inst. Radiation Biol., Ingolstadt, D-8042 Neuherberg, West Germany]

88-004756 Surtio, Leena R.; Wan Ying Shiu and Donald Mackay. NATURE AND PROPERTIES OF CHEMICALS PRESENT IN PULP MILL EFFLUENTS. *Chemosphere* 17(7):1249-1290. 1988. FR 33(4)  
[Inst. Environ. Studies, Univ. Toronto, Toronto, ON, Canada M5S 1A5]

88-004757 Svobodova, Z.; M. Hejtmanek; J. Koubek; A. Kocova and B. Krcmarova. MERCURY LEVELS IN FISH AND OTHER COMPONENTS OF THE EMBAYMENT OF PODHORA WATERWORKS RESERVOIR. *Pr. Vodnany* No. 16. p. 69-76. 1987. Czech summ. FR 33(4)  
[Vyzkumny ustav rybarsky & hydrobiol., 389 25 Vodnany, Czechoslovakia]

88-004758 Zarull, Michael A. HAMILTON HARBOUR REHABILITATION WORK. *Int. Assoc. Great Lakes Res. Conf.* 30:A-64. 1987. Abstract only  
[Great Lakes Regional Off., Int. Joint Comm., Windsor, ON, Canada N9A 6K5]

#### FISH KILLS

88-004759 Mac, M. J. and Carol C. Edsall. MORTALITY OF LAKE TROUT FROM SOUTHEASTERN LAKE MICHIGAN. *Int. Assoc. Great Lakes Res. Conf.* 30:A-64. 1987. Abstract only. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish Cent.-Great Lakes, 1451 Green Road, Ann Arbor, MI 48105] *Salvelinus namaycush*.

88-004760 Reiersen, Lars-Otto and Per Erik Iversen. PHYTOPLANKTON IN THE SKAGERRAK COAST. *Mar. Pollut. Bull.* 19(8):348. 1988. FR 33(4)

88-004761 Shamsudin, Lokman. WATER QUALITY AND MASS FISH MORTALITY IN MENGABANG LAGOON, TRENGGANU, MALAYSIA. *Malay. Nat. J.* 41(1):33-41. 1988. FR 33(4)  
[Fac. Fish. & Mar. Sci., Univ. Pertanian Malaysia, Mengabang Telipok, Trengganu, Malaysia]

#### TOXICOLOGY; BIOASSAYS

88-004762 Andersson, Osten; Carl-Eric Linder; Mats Olsson; Lars Reijnders; Uvemo and Ulla Wideqvist. SPATIAL DIFFERENCES AND TEMPORAL VARIATIONS OF ORGANOCHLORINE COMPOUNDS IN BIOTA FROM THE NORTHWESTERN

04763 Andersson, Tommy; Lars Forlin; Jan Hardig and Ake Larsson. PHYSIOLOGICAL DISTURBANCES IN FISH LIVING IN COASTAL WATER POLLUTED WITH BLEACHED KRAFT PAPER MILL EFFLUENTS. *Can. J. Fish. Aquat. Sci.* 45(9):1525-1536. 1988. In English with Swedish summ. FR 33(4)

Dep. Zoophysiol., Univ. Goteborg, Box 25059, S-400 31 Goteborg, Sweden] *Acta Oecologica*.

04764 Anliker, R.; P. Moser and D. Poppinger. BIOACCUMULATION OF DYE STUFFS AND ORGANIC PIGMENTS IN FISH. RELATIONSHIPS TO HYDROPHOBICITY AND STORAGE CAPACITIES. *Chemosphere* 17(8):1631-1644. 1988. FR 33(4)

Col. & Toxicol. Assoc. Dyestuffs Manufacturing Ind., P.O. Box CH-4005 Birmensdorf, Switzerland]

04765 Ansari, Badre Alam and Kaushal Kumar. DIAZINON TOXICITY: EFFECTS ON PROTEIN AND NUCLEIC ACID METABOLISM IN THE LIVER OF ZEBRAFISH, *BRACHYDANIO RERIO* (CYPRINIDAE). *Sci. Total Environ.* 76(1):63-68. 1988. FR 33(4)

Dep. Zool., Univ. Gorakhpur, Gorakhpur 273 009, India]

04766 Baumann, Paul C. TUMORS IN FISH AND ASSOCIATED TOXIC SUBSTANCES. PROBLEMS, LIMITATIONS, AND RESEARCH NEEDS. *Int. Assoc. Great Lakes Res. Conf. Proc.* 3. 1987. Abstract only. FR 33(4)

U.S. Fish & Wildl. Serv., 1813 N. High St., Columbus, OH 43210] *Ictalurus nebulosus*.

04767 Beckinan, Brian R. and Waldo S. Zaugg. COPPER INTOXICATION IN CHINQUAPIN FISH (*ONCORHYNCHUS TSHAWYTSCHA*) INDUCED BY NATURAL SPRINGWATER. EFFECTS ON GILL  $Na^+$ ,  $K^+$ -ATPase, HEMATOCRIT, AND PLASMA GLUCOSE. *Can. J. Fish. Aquat. Sci.* 45(8):1430-1435. 1988. In English with French summ. FR 33(4)

Rock Field Stn., Coastal Zone & Estuarine Studies Div., Northwest & Alaska Fish. Center, NOAA, 2725 Montlake Blvd. E., Seattle, WA 98112]

04768 Bengtsson, B.-E.; A. Bengtsson and U. Tjarnlund. EFFECTS OF PULP MILL EFFLUENTS ON VERTEBRAE OF FOURHORN SCULPIN, *MYOXOCEPHALUS QUADRICORNIS*, BROWN TROUT, *ALBURNUS ALBURNUS*, AND PERCH, *PERCA FLUVIATILIS*. *Arch. Environ. Health* 43(6):789-797. 1988. FR 33(4)

Environ. Protection Board, Lab. Aquat. Toxicol., Studsvik, S-611 82 Nykoping, Sweden]

04769 Bengtsson, Bengt-Erik. EFFECTS OF PULP MILL EFFLUENTS ON SKELETONAL PARAMETERS IN FISH - A PROGRESS REPORT. *Water Sci. Technol.* 20(2):87-94. 1988. In English with Swedish summ. FR 33(4)

Environ. Protection Board, Lab. Aquat. Toxicol., Studsvik, S-611 82 Nykoping, Sweden] *Myoxocephalus quadricornis* in Sweden.

04770 Bergman, H. L.; J. S. Mattice and D. J. A. Brown. LAKE ACIDIFICATION MONITORING SERIES PROJECT: ADULT BROOK TROUT (*SALVELINUS FONTINALIS*). *Can. J. Fish. Aquat. Sci.* 45(9):1561-1562. 1988. In English with French summ. FR 33(4)

- 88-004771 Black, J. J.; A. E. Maccubbin; H. K. Myers and R. F. Z. INDUCED HEPATIC NEOPLASIA IN GREAT LAKES COHO SALMON. *Environ. Toxicol.* 41(5):742-745. 1988. FR 33(4)  
 [Roswell Park Memorial Inst., 666 Elm St., Buffalo, NY 14263] *Oncor*
- 88-004772 Booth, C. E.; D. G. McDonald; B. P. Simons and C. M. ALUMINUM AND LOW pH ON NET ION FLUXES AND ION BALANCE IN [SALVELINUS FONTINALIS]. *Can. J. Fish. Aquat. Sci.* 45(9):1563-1 with French summ. FR 33(4)  
 [McDonald: Dep. Biol., McMaster Univ., 1280 Main St. W., Hamilton, ON, Canada L8S 4L1]
- 88-004773 Bowlby, J. N.; J. M. Gunn and V. A. Liimatainen. METAL TROUT (*SALVELINUS NAMAYCUSHI*) IN LAKES NEAR SUDBURY, CANADA. *Water Pollut. Res. J. Canada* 39(1/2):217-230. 1988. FR 33(4)  
 [Lake Ontario Fish. Unit, Minist. Nat. Resour., Picton, ON, Canada]
- 88-004774 Bruno, D. W. and A. E. Ellis. HISTOPATHOLOGICAL EFFECTS ON COHO SALMON, *SALMO SALAR* L., ATTRIBUTED TO THE USE OF TRIBUTYL TIN IN AQUACULTURE. *Aquaculture* 72(1/2):15-20. 1988. FR 33(4)  
 [Dep. Agric. & Fish., Mar. Lab., Victoria Rd., Aberdeen AB9 8DB, Scotland]
- 88-004775 Bushong, Steven J.; Lenwood W. Hall, Jr.; W. Scott Hall and Roger L. Herman. ACUTE TOXICITY OF TRIBUTYL TIN TO SELECTED FISH AND INVERTEBRATES. *Water Res.* 22(8):1027-1032. 1988. FR 33(4)  
 [Johns Hopkins Univ., Appl. Physics Lab., Aquat. Ecol. Sect., Sharnbrook, Bedfordshire, England; *Beryllina*, *Brevoortia tyrannus*, *Fundulus heteroclitus*, and *Cyprinodon*]
- 88-004776 Cleland, Glenn B.; Barry G. Oliver and Ronald A. PERSPECTIVES OF CONSUMPTION OF GREAT LAKES COHO SALMON. *Lakes Res. Conf.* 30:A-12. 1987. Abstract only. FR 33(4)  
 [Dep. Pathol., McMaster Univ., Hamilton, ON, Canada L8N 3Z5] *Oncor*
- 88-004777 Dale, B.; D. G. Bادن; B. Mck. Bary; L. Edler; S. Fraga; M. Hallegraaff; T. Ochaichi; K. Tangen; F. J. R. Taylor; A. W. Whitford; C. S. Yentsch. PROCEEDINGS: INTERNATIONAL CONFERENCE ON THE PROBLEMS OF TOXIC DINOFLAGELLATE BLOOMS IN AQUACULTURE. *Station Ireland* 61p. 1987. FR 33(4)  
 [Sherkin Island Mar. Stn., Sherkin Island, Co. Cork, Ireland]
- 88-004778 Desjardins, C.; P. Beland and D. Martineau. THE CONFIRMATION OF THE PRESENCE OF THE PESTICIDE MIREX IN COHO SALMON, 200 MILES DOWNSTREAM OF LAKE ONTARIO. *Int. As. Lakes Res. Conf.* 30:A-14. 1987. Abstract only. FR 33(4)  
 [Mirex: *Acipenser*]

ANGES IN LONGEAR SUNFISH, *LOPOMIS MECALOTIS*, ASSOCIATED WITH  
MNIUM AND ZINC FROM MINE TAILINGS. *J. Fish Biol.* 33(2):307-317. 1988. FR 33(4)  
J.S. Fish & Wildl. Serv., Natl. Fish. Contam. Res. Cont., Rt. 1, Columbia, MO 65201

004780 Eidt, D. C.; G. B. Bacon; G. M. DeGraeve and V. N. Mallet. FATE  
SHORT-TERM PERSISTENCE OF THE INSECTICIDE AMINOCARB IN A NEW BRUN  
(CANADA) HEADWATER STREAM. *Arch. Environ. Contam. Toxicol.* 17(6):817-829. 1988.  
(1)  
Canadian For. Serv.--Maritimes, P.O. Box 4000, Fredericton, NB, Canada E3B  
*velinus fontinalis*.

004781 Eisler, Ronald. ARSENIC HAZARDS TO FISH, WILDLIFE,  
VERTEBRATES: A SYNOPTIC REVIEW. *U.S. Fish Wildl. Serv. Biol. Rep.* 85(1.12)  
B. Available from Sect. Inform. Manage., Patuxent Wildl. Res. Cent., U.S. Fish &  
Wildl. Serv., Laurel, MD 20708 FR 33(4)  
U.S. Fish & Wildl. Serv., Patuxent Wildl. Res. Cent., Laurel, MD 20708]

004782 Evans, Robert E.; Scott B. Brown and Toshiaki J. Hara. THE EFFECT  
OF ARSENIC AND ACID ON THE GILL MORPHOLOGY IN RAINBOW TROUT, *Salmo gairdneri*.  
*Environ. Biol. Fishes* 22(1):299-311. 1988. FR 33(4)  
Freshwater Inst., Cont. & Arctic Region, Dep. Fish. & Oceans, Winnipeg, MB, C  
(R2N2G)

004783 Evans, Sverker. APPLICATION OF PARAMETER UNCERTAINTY ANALYSIS  
TO THE ESTIMATION OF THE CUMULATION OF <sup>137</sup>Cs IN FISH, WITH SPECIAL EMPHASIS ON *PLEURON*  
*VERTEBRATA*. *J. Exp. Mar. Biol. Ecol.* 120(1):57-80. 1988. FR 33(4)  
Safety & Syst. Analysis, Environ. Serv., Studsvik Nuclear, 611 82 Nyköping, Sweden

004784 Flores-Nava, A. and J. J. Vizcarra-Quiroz. ACUTE TOXICITY  
OF DITHIOPHOSPHATE (DIPTEREX) TO FRY OF *CICHLASOMA UROPIIHALMUS* GUNTER.  
*Environ. Biol. Fish. Manage.* 19(4):341-345. 1988. FR 33(4)  
CINESTAV-IPN, AP 73 CORDEMEX, Merida, Yucatan 97310, Mexico]

004785 Forlin, Lars; Tommy Andersson; Jan Hardig and Ako La  
METHODOLOGICAL ASPECTS ON MEASUREMENTS OF PHYSIOLOGICAL DISTURBANCES  
IN FISH EXPOSED TO BLEACHED KRAFT MILL EFFLUENTS. *Water Sci. Technol.* 20(1)  
B. FR 33(4)  
Dep. Zoophysiol., Univ. Goteborg, Box 25059, S-40031 Goteborg, Sweden]  
*platifis*.

004786 Fox, Glen A. FISH-EATING BIRDS AS SENSORS OF TOXIC LEVELS OF  
ENVIRONMENTAL CONTAMINANTS IN THE GREAT LAKES. *Int. Assoc. Great Lake  
Res.* 30:A-21. 1987. Abstract only. FR 33(4)  
Wildl. Toxicol. & Surv. Branch, Canadian Wildl. Serv., Ottawa, ON, Canada K1A 0

004787 Fryer, J. N.; W. H. Tam; B. Valentine and R. E. Tikkala. PROLACTIN  
LEVELS, PLASMA ELECTROLYTES, AND WHOLE-BODY SODIUM EFFLUX IN  
STRESS-EXPOSED BROOK TROUT (*SALVELINUS FONTINALIS*). *Can. J. Fish. Aquat  
Sci.* 45(7):1212-1221. 1988. In English with French summ. FR 33(4)  
Dep. Anat., Fac. Health Sci., Univ. Ottawa, Ottawa, ON, Canada K1H 8M5]

1988. In English with French summary. FR 33(4)  
[Dep. Fish. & Oceans, Cent. & Arctic Region, Freshwater Inst., 501  
Winnipeg, MB, Canada R3T 2N6]

88-004789 Gill, Tejendra S.; Jagdish C. Pant and Hema Tewari. BR  
PATHOLOGY IN THE FISH EXPOSED CHRONICALLY TO METHOX  
CHLORIDE. *Bull. Environ. Contam. Toxicol.* 41(2):241-246. 1988. FR 3  
[Dep. Zool., Kumaun Univ., Naini Tal, 263 002, U.P., India] *Puntlu*

88-004790 Gutierrez-Galindo, Efrain A.; Gilberto Flores Munoz a  
Flores. MERCURY IN FRESHWATER FISH AND CLAMS FROM T  
GEOHERMAL FIELD OF BAJA CALIFORNIA, MEXICO. *Bull. Environ*  
41(2):201-207. 1988. FR 33(4)  
[Inst. Invest. Oceanol., Univ. Autonoma Baja Calif., P.O. Box 4  
Mexico] *Tilapia mossambica*.

88-004791 Haider, S. and R. Moses Inbaraj. *IN VITRO* EFFECT  
ENDOSULFAN ON THE LH-INDUCED OOCYTE MATURATION IN T  
CYPRINUS CARPIO (L.). *Water Air Soil Pollut.* 39(1/2):27-31. 1988. F  
[Dep. Zool., Banaras Hindu Univ., Varanasi 221005, India]

88-004792 Hall, Lenwood W., Jr.; Steven J. Bushong; Michael C. Zie  
and Roger L. Herman. CONCURRENT MOBILE ON-SITE AND *IN*  
CONTAMINANT AND WATER QUALITY STUDIES IN THE CHOPTAN  
CHESAPEAKE BAY. *Environ. Toxicol. Chem.* 7(10):815-830. 1988. FR  
[Appl. Physics Lab., Aquat. Ecol. Sect., John Hopkins Univ., S  
*Morone saxatilis*.

88-004793 Hamilton, Steven J. and Rob J. Reash. BONE DEVELOPM  
FROM A STREAM CHRONICALLY POLLUTED WITH HEAVY METALS. 7  
117(1):48-54. 1988. FR 33(4)  
[Am. Electric Power Serv. Corp., Environ. Eng. Div., 1 Riverside  
43216] *Semotilus atromaculatus* in Ohio.

88-004794 Hawkins, W. E.; J. W. Fournie; R. M. Overstreet  
RHABDOMYOSARCOMA IN THE JAPANESE MEDAKA, *ORYZIAS LA*  
SCHLEGEL) AND GUPPY, *POECILIA RETICULATA* PETERS. *J. Fis*  
1988. FR 33(4)  
[Gulf Coast Res. Lab., P.O. Box 7000, Ocean Springs, MS 39564]

88-004795 Herman, Roger Lee and Harold L. Kincaid. PATHOL  
ORALLY ADMINISTERED ESTRADIOL TO RAINBOW TROUT. *Aquacu*  
1988. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish Health Res. Lab., P.O. Box  
25430] *Salmo gairdneri*.

88-004796 Herzberg, Abraham M. TOXICITY AND ACCUMULATION  
THE TILAPIA *OREOCHROMIS AUREUS*. *Bunidgeh* 40(1) 35-39. 1988. 1  
[Fish. Products Lab., Dep. Fish., Minist. Agric., P.O.B. 699, Hai

- 4798 Hickie, B. E. and D. G. Dixon. BRAIN MONOAMINE METABOLISM AS INDICATOR OF TOXICANT IMPACT ON FISH. *Int. Assoc. Great Lakes Res. Conf.* 30:A-28. 1987. Abstract only. FR 33(4)  
S. Fish & Wildl. Serv., Natl. Fish. Cont.-Great Lakes, 1451 Green Rd., Ann Arbor 48105] *Salvelinus namaycush*.
- 4799 Hunn, Joseph B. FIELD ASSESSMENT OF THE EFFECTS OF CONTAMINANTS ON FISHES. *U.S. Fish Wildl. Serv. Biol. Rep.* 88(19):25p. 1988. Available from U.S. Fish & Wildl. Serv., Publ. Unit, Matomic Bldg., Rm 148, Washington, DC 20240. FR 33(4)  
S. Fish & Wildl. Serv., Natl. Fish. Contam. Res. Cent., Rt. 1, Columbia, MO 65201
- 4800 Jimenez, Braulio D.; Lisa S. Burtis; George H. Ezell; B. Z. Egan; Norma J. J. Beauchamp and J. F. McCarthy. THE MIXED FUNCTION OXIDASE SYSTEM IN THE GILL SUNFISH, *LÉPOMIS MACROCHIRUS*: CORRELATION OF ACTIVITIES IN LABORATORY AND WILD FISH. *Environ. Toxicol. Chem.* 7(8):623-634. 1988. FR 33(4)  
Environ. Sci. Div., Oak Ridge Natl. Lab., P.O. Box X, Oak Ridge, TN 37831-6036]
- 4801 Jodon, Tracy A.; Paul C. Baumann and Peter F. Landrum. AHH ACTIVITY AND MUTATION OF BROWN BULLHEAD EXPOSED TO PAHs. *Int. Assoc. Great Lakes Res. Conf.* 30:A-31. 1987. Abstract only. FR 33(4)  
Environ. Sci. Div., Ohio State Univ., Columbus 43210] *Ictalurus nebulosus*.
- 4802 Jude, David J.; Mila Simmons and Ronald Rossmann. THE RELATIONSHIP BETWEEN DEEPWATER SCULPIN CONTAMINANT LEVELS AND GREAT LAKES TROUT. *Int. Assoc. Great Lakes Res. Conf.* 30:A-32. 1987. Abstract only. FR 33(4)  
Great Lakes Res. Div., Univ. Mich., Ann Arbor 48109] *Myoxocephalus thompsoni*.
- 4803 Keller, Anne E.; R. J. Dutton and Thomas L. Crisman. EFFECT OF WATER TEMPERATURE ON THE CHRONIC TOXICITY OF HYDROTHOL-191 TO THE FATHEAD MINNOW (*PIMEPHALES PROMELAS*). *Bull. Environ. Contam. Toxicol.* 41(5):770-775. 1988. FR 33(4)  
Dep. Environ. Eng. Sci., Univ. Fla., Gainesville 32611]
- 4804 Khangarot, B. S.; P. K. Ray and K. P. Singh. INFLUENCE OF COBALT(II) ION TREATMENT ON THE IMMUNE RESPONSE IN AN AIR-BREATHING TELEOST, *COBRANCHUS FOSSILIS*. *Bull. Environ. Contam. Toxicol.* 41(2):222-226. 1988. FR 33(4)  
Immunobiol. & Preventive Toxicol. Div., Ind. Toxicol. Res. Cent., Post Box 80, Malviya Marg, Lucknow 226 001, India]
- 4805 Khangarot, B. S. and P. K. Ray. STUDIES ON THE TOXICITY OF MALATHION ON FRESHWATER TELEOSTS, *CHANNA PUNCTATUS* (BLOCH) AND *PUNTIUS SOPHUS* (MILTON). *Arch. Hydrobiol.* 113(3):465-469. 1988. FR 33(4)  
Immunobiol. & Preventive Toxicol. Div., Ind. Toxicol. Res. Cent., P.O. Box 80, Malviya Gandhi Marg, Lucknow-226 001, India]

[Spec. Analyt. Lab., Natl. Environ. Protection Board, Box 1302, S-171  
*Perca fluviatilis* and *Rutilus rutilus*.]

88-004807 Kumar, S. and S. C. Pant. COMPARATIVE SUBLETHAL OVA  
OF SOME PESTICIDES IN THE TELEOST, *PUNTIUS CONCHIONIUS*  
*Environ. Contam. Toxicol.* 41(2):227-232. 1988. FR 33(4)

[Dep. Zool., D S.B. Campus, Kumaun Univ., Naini Tal-263 002, U.P.,

88-004808 Lacroix, Gilles L. FISH COMMUNITY STRUCTURE IN RELATI  
THREE NOVA SCOTIA RIVERS. *Can. J. Zool.* 65(12):2908-2915. 198  
French summ. FR 33(4)

[Dep. Fish. & Oceans, Biol. Stn., St. Andrews, NB, Canada E0G 2X0]

88-004809 Larsson, Ake; T. Andersson; L. Forlin and J. Hardig  
DISTURBANCES IN FISH EXPOSED TO BLEACHED KRAFT MILL EFFL  
*Technol.* 20(2):67-76. 1988. FR 33(4)

[Environ. Protection Board, Lab. Aquat. Toxicol., Studsvik, S-611 82  
*Perca fluviatilis* and *Myoxocephalus quadricornis* in Sweden.]

88-004810 Law, A. T. and A. Singh. HEAVY METALS IN FISHES  
ESTUARY, MALAYSIA. *Malay. Nat. J.* 41(4):505-513. 1988. FR 33(4)

[Dep. Fishing Technol., Univ. Pertanian Malaysia, 43400 Serdang, Sel

88-004811 Leslie, John K.; Laurie Montour and Charles A. Timmins.  
YOUNG FISH AT HALPOLE ISLAND, ST. CLAIR RIVER DELTA. *Int.*  
*Res. Conf.* 30:A-38. 1987. Abstract only. FR 33(4)

[Great Lakes Lab. Fish. & Aquat. Sci., Burlington, ON, Canada L7R 4

88-004812 Lindstrom-Seppa, Pirjo and Aimo Oikari. HEPA  
BIOTRANSFORMATION IN FISHES EXPOSED TO PULPMILL EFFLUENTS.  
20(2):167-170. 1988. FR 33(4)

[Dep. Physiol., Univ. Kuopio, P.O.B. 6, SF-70211, Kuopio, Finland  
Finland.]

88-004813 Maack, Laura A.; David P. Degenhardt and William  
CONGENERS IN UPPER GREAT LAKES FISH. *Int. Assoc. Great Lakes*  
1987. Abstract only. FR 33(4)

[Lab. Hyg. & Water Chem. Program, Univ. Wis., Madison 53706]

88-004814 Maack, Laura and William C. Sonzogni. ANALYSIS OF POL  
CONGENERS IN WISCONSIN FISH. *Arch. Environ. Contam. Toxicol.* 17(1)  
33(4)

[Sonzogni: Environ. Toxicol. Cent. & Lab. Hyg., Univ. Wis., Madiso

88-004815 Maccubbin, Alexander E. and Mary Ellen Frank. MUTAGE  
SEDIMENTS FROM THE DETROIT RIVER. *Int. Assoc. Great Lakes*  
1987. Abstract only. FR 33(4)

[Roswell Park Memorial Inst., Buffalo, NY 14263]



88-004817 McDonald, D. G. and C. L. Milligan. SODIUM TRANSPORT IN TROUT, *SALVELINUS FONTINALIS*: EFFECTS OF PROLONGED LOW pH EXPOSURE IN THE PRESENCE AND ABSENCE OF ALUMINUM. *Can. J. Fish. Aquat. Sci.* 45(9):1606-1614. 1988. In English with French summ. FR 33(4)  
[Dep. Biol., McMaster Univ., 1280 Main St. W., Hamilton, ON, Canada L8S 4K1]

88-004818 McNaught, Donald C. AMBIENT WATER TOXICITY TESTING: LIMITATIONS, AND RESEARCH NEEDS FOR FUNCTIONAL TESTING. *Int. Assoc. Great Lakes Res. Conf.* 30:A-43. 1987. Abstract only. FR 33(4)  
[Ecol. & Behav. Biol., Univ. Minn., Minneapolis 55455]

88-004819 Middaugh, D. P.; M. J. Hemmer and E. M. Lores. TERATOLOGICAL EFFECTS OF 2,4-DINITROPHENOL, 'PRODUCED WATER' AND NAPHTHALENE ON EMBRYOS OF INLAND SILVERSIDE *MENIDIA BERYLLINA*. *Dis. Aquat. Org.* 4(1):53-65. 1988. In English with French summ. FR 33(4)  
[U.S. Environ. Protection Agency, Gulf Breeze Environ. Res. Lab., Sabine Island, Gulf Breeze, FL 32561]

88-004820 Miettinen, Veijo and Marja Ruoppa. EFFECTS OF INTERNAL PROCESSES IN A PULP AND PAPER MILL ON FISH IN THE RECIPIENT. *Water Sci. Technol.* 20(2):171-172. 1988. FR 33(4)  
[Natl. Board Waters & Environ., Kylasaarekatu 10, SF-00550 Helsinki, Finland]

88-004821 Mikkelsen, Pirjo; Jaakko Paasivirta and Juha Knuutila. HPLC/FLUORESCENCE SPECTROMETRY IN ANALYSES OF PULP MILL WASTES IN RECIPIENTS. *Water Sci. Technol.* 20(2):171-172. 1988. FR 33(4)  
[Dep. Chem., Univ. Jyväskylä, Kytlikinkatu 1-3, SF-40100 Jyväskylä, Finland]

88-004822 Mohan, C. V.; T. R. C. Gupta and N. R. Menon. ACUTE TOXICITY OF MERCURY ON THE EARLY DEVELOPMENTAL STAGES OF *CIRRHINA MRIGALA*. *Indian J. Fish.* 33(1):133-136. 1986. FR 33(4)  
[Coll. Fish., Mangalore 575002, India]

88-004823 Monod, G.; A. Devaux and J. L. Riviero. EFFECTS OF CHEMICAL POLLUTANTS ON THE ACTIVITIES OF HEPATIC XENOBIOTIC METABOLIZING ENZYMES IN THE RIVER RHONE. *Sci. Total Environ.* 73(3):189-201. 1988. FR 33(4)  
[Inst. Nat. Rech. Agron., Lab. Ecotoxicol. INRA-ENVL, BP 31, 69752 Chassagnac Cedex, France] *Chondrostoma nasus*, *Rutilus rutilus*, and *Thymallus thymallus*.

88-004824 Mount, D. R.; C. G. Ingersoll; D. D. Gulloy; J. D. Fernandez; T. J. and H. L. Bergman. EFFECT OF LONG-TERM EXPOSURE TO ACID, ALUMINUM AND CALCIUM ON ADULT BROOK TROUT (*SALVELINUS FONTINALIS*). 1. SURVIVAL, REPRODUCTIVE FECUNDITY, AND PROGENY SURVIVAL. *Can. J. Fish. Aquat. Sci.* 45(9):1623-1632. 1988. In English with French summ. FR 33(4)  
[Fish Physiol. & Toxicol. Lab., Dep. Zool. & Physiol., Univ. Wyo., Laramie 82033]

(*SALVELINUS FONTINALIS*). 2. VITELLOGENESIS AND OSMOREGULATION. *Aquat. Sci.* 45(9):1633-1642. 1988. In English with French summ. FR 33(4)  
[Fish Physiol. & Toxicol. Lab., Dep. Zool. & Physiol., Univ. Wyo., Laramie, WY]

88-004826 Muir, Derek C. G.; Ross J. Norstrom and Mary Simon. CONTAMINANTS IN ARCTIC MARINE FOOD CHAINS: ACCUMULATION OF POLYCHLORINATED BIPHENYLS AND CHLORDANE-RELATED COMPOUNDS IN *Boreogadus saida*. *Water Sci. Technol.* 22(9):1071-1079. 1988. FR 33(4)  
[Dep. Fish. & Oceans, 501 University Crescent, Winnipeg, MB, R3S 0Y9]

88-004827 Munkittrick, K. R. and D. G. Dixon. GROWTH, REPRODUCTION AND STORES OF WHITE SUCKER (*CATOSTOMUS COMMERSONI*) FROM LAKES WITH ELEVATED LEVELS OF COPPER AND ZINC. *Can. J. Fish. Aquat. Sci.* 45(9):1633-1642. 1988. In English with French summ. FR 33(4)  
[Dep. Biol., Univ. Waterloo, Waterloo, ON, Canada N2L 3G1]

88-004828 Neuman, E. and P. Karas. EFFECTS OF PULP MILL EFFLUENTS ON A COASTAL FISH COMMUNITY. *Water Sci. Technol.* 20(2):95-106. 1988. FR 33(4)  
[Natl. Environ. Protection Board, Mar. Sect., P.O. Box 584, S-740 70]

88-004829 Nicoletto, Paul F. and Albert C. Hendricks. SEXUAL MATURATION AND ACCUMULATION OF MERCURY IN FOUR SPECIES OF CENTRARCHID FISHES. *Water Sci. Technol.* 20(2):95-106. 1988. In English with French summ. FR 33(4)  
[Dep. Biol., VPI&SU, Blacksburg, VA 24061] *Ambloplites rupestris*, *Lepomis gibbosus*, and *L. macrochirus* in Virginia.

88-004830 Nilsson, Marie-Charlotte. LESIONS AND DISEASES IN FISH FARMS AND AQUACULTURE INDUSTRIES. *Water Sci. Technol.* 20(2):173. 1988. FR 33(4)  
[Dep. For. Site Res., Swedish Univ. Agric. Sci., S-901 83 Umea, Sweden]

88-004831 Noguchi, G. E. EFFECTS OF PCB EXPOSURE ON LIFE HISTORY AND LARVAL RAINBOW TROUT. *Int. Assoc. Great Lakes Res. Conf.* 30:1-10. 1987. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green Road, Ann Arbor, MI 48105] *Salmo gairdneri*.

88-004832 Noguchi, G. E. and R. J. Hesselberg. PARENTAL TRANSMISSION OF CONTAMINANTS TO YOUNG-OF-THE-YEAR SPOTTAIL SHINERS (*Notropis hudsonius*). *Int. Assoc. Great Lakes Res. Conf.* 30:A-46. 1987. Abstract only. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green Road, Ann Arbor, MI 48105]

88-004833 Panebianco, F.; A. Panebianco, A. Corrao and B. Marone. HEPATIC PATHOLOGY IN SALTWATER FISHES. NOTE NUMBER 2: CORRELATION OF HEPATIC CONTENTS IN Pb, Cd, Hg, ORGANOCHLORINE AND HEPATIC LESIONS WITH FOOD HYGIENE. *Arch. Vet. Ital.* 39(3):65-72. 1988. In Italian with English summ. FR 33(4)  
[Univ. Studi Messina Fac. Med. Vet., Inst. Ispezione Alimenti Or. Messina, Italy]

04835 Perry, Dean M.; Judith S. Weis and Peddrick Weis. CYTOGENETIC EFFECTS OF CADMIUM IN EMBRYOS OF THE KILLIFISH, *FUNDULUS HETEROCLOTUS*. *Environ. Contam. Toxicol.* 17(5):569-574. 1988. FR 33(4)  
Dep. Anim. Prod., Lab. Appl. Hydrobiol., Agric. Univ., 75 Iera Odos, Votanikos, Athens, Greece]

04836 Petersen, Robert C., Jr. POPULATION AND GUILD ANALYSIS AND INTERPRETATION OF HEAVY METAL POLLUTION IN STREAMS. *ASTM Spec. Tech. Rep.* 920. p. 180-198. 1986. FR 33(4)  
Stream & Benthic Ecol. Group, Limnol. Inst., 22100 Lund, Sweden]

04837 Peterson, R. H.; D. J. Martin-Robichaud and J. Power. TOXICITY OF PCBs TO EARLY DEVELOPMENTAL STAGES OF ATLANTIC SALMON (*SALMO SALAR*). *Environ. Contam. Toxicol.* 41(3):391-397. 1988. FR 33(4)  
Fish. & Environ. Sci. Div., Dep. Fish. & Oceans, Biol. Stn., St. Andrews, NB, Canada [2X0]

04838 Pickering, Quentin H. EVALUATION AND COMPARISON OF TWO SHORT-TERM HEAD MINNOW TESTS FOR ESTIMATING CHRONIC TOXICITY. *Water Res.* 22(7):819-824. 1988. FR 33(4)  
Environ. Monit. & Support Lab., U.S. Environ. Protection Agency, Cincinnati, Ohio [B]

04839 Prahalad, A. K. and G. Seenayya. *IN SITU* PARTITIONING AND BIOACCUMULATION OF MERCURY IN INDUSTRIALLY POLLUTED HUSAINSAGAR LAKE, HYDERABAD, INDIA. *Water Air Soil Pollut.* 39(1/2):81-87. 1988. FR 33(4)  
Seenayya: Dep. Microbiol., Osmania Univ., Hyderabad 500 007, India] *Noto*

04840 Prasad, M. S. SENSITIVITY OF BRANCHIAL MUCOUS TO CRUDE OIL TOXICITY IN A FRESHWATER FISH, *COLISA FASCIATUS*. *Bull. Environ. Contam. Toxicol.* 41(5):615-618. 1988. FR 33(4)  
Dep. Zool., Bihar Univ., Muzaffarpur 842001 Bihar, India]

04841 Ram, Raj Narayan and K. P. Joy. MERCURIAL INDUCED CHANGES IN THE RETICULO-ENDOTHELIAL SYSTEM AND NEUROPHYSIOLOGICAL COMPLEX IN RELATION TO REPRODUCTIVE FAILURE IN TELEOSTEAN FISH, *CHANNA PUNCTATUS* (BLOCH). *Bull. Environ. Contam. Toxicol.* 41(3):329-336. 1988. FR 33(4)  
Dep. Zool., Banaras Hindu Univ., Varanasi 221 005, India]

04842 Rathbun, J. E.; S. G. Rood and J. T. Rood. CONCENTRATIONS OF PCBs AND MFO-INDUCING PCB CONGENERS IN WHOLE CARP AND CARP FILLETS FROM THE RIVER RAISIN, MI. *Int. Assoc. Great Lakes Res. Conf.* 30:A-40. 1987. Abstracts of the 30th Annual Meeting, 1987. FR 33(4)  
Rathbun: Raytheon Serv. Co., 9311 Groh Rd., Grosse Ile, MI 48138] *Cyprinus carpio*.

88-004843 Ray, Debasis. EFFECT OF AN ANIONIC DETERGENT ON THE  
OF VARIOUS CELL TYPES IN THE OPERCULAR EPIDERMIS OF RITA TIT  
*Contam. Toxicol.* 41(3):352-359. 1988. FR 33(4)  
[464, Saheednagar, Bhubaneswar, India]

88-004844 Reddy, Ravichandra S.; Rajender R. Jinna; John E. Uzoe  
Desaiab. IN VITRO EFFECT OF MERCURY AND CADMIUM ON BRAIN Ca  
CATFISH *ICTALURUS PUNCTATUS*. *Bull. Environ. Contam. Toxicol.* 4  
FR 33(4)  
[Desaiab: Dep. Neurol., Univ. Miss. Med. Cent., Jackson 39216]

88-004845 Richman, Lisa A.; Christopher D. Wren and Pamela M. St  
FALLACIES CONCERNING MERCURY UPTAKE BY FISH IN ACID STRES  
*Air Soil Pollut.* 37(3-4):465-473. 1988. FR 33(4)  
[APIOS Off., Minist. Environ., 135 St. Clair Ave. W., Suite 100, Tor  
M4V 1P5]

88-004846 Roncero, V.; A. Gazquez; E. Redondo; M. C. Moyan  
[STRUCTURAL AND ULTRASTRUCTURAL STUDY OF TENCH (*TINCA T*  
AFTER EXPERIMENTAL INTOXICATION WITH LEAD NITRATE.] *J.*  
35(7):529-543. 1988. In French with English and German summ. FR 33(4)  
[Dep. Hist. Anat. Pat. F. Vet., Apdo 217, Caceres, Spain]

88-004847 Ruoppa, Marja and Tarja Nakari. THE EFFECTS OF M  
INDUSTRY (TERVAKOSKI OY) WASTE WATERS ON THE FERTILIZED E  
OF ZEBRAFISH AND ON THE PHYSIOLOGY OF RAINBOW TROUT. *W*  
20(2):201. 1988. FR 33(4)  
[Natl. Board Waters & Environ., Kylasaaronkatu 10, SF-00550  
*Brachydanio rerio* and *Salmo gairdneri* in Finland.]

88-004848 Russom, C. L.; R. A. Drummond and A. D. Hoffman. ACU  
BEHAVIORAL EFFECTS OF ACRYLATES AND METHACRYLATES TO J  
MINNOWS. *Bull. Environ. Contam. Toxicol.* 41(4):589-596. 1988. FR 33(4)  
[U.S. Environ. Protection Agency, Environ. Res. Lab., 6201 Congdon  
55804] *Pimephales promelas*.

88-004849 Sadler, K. and S. Lynam. THE INFLUENCE OF CALCIUM  
INDUCED CHANGES IN THE GROWTH RATE AND MORTALITY OF BROW  
*TRUTTA L.* *J. Fish Biol.* 33(2):171-179. 1988. FR 33(4)  
[Cent. Electric. Res. Lab., Freshwater Biol. Unit, Ratcliffe-on-Soar  
OEF, England]

88-004850 Saiki, Michael K. and Thomas W. May. TRACE ELEM  
BLUEGILLS AND COMMON CARP FROM THE LOWER SAN JOAQUIN RI  
AND ITS TRIBUTARIES. *Sci. Total Environ.* 74:199-217. 1988. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish. Contam. Res. Cent., 6924 Trem  
95620] *Lepomis macrochirus* and *Cyprinus carpio*.

88-004851 Sanders, Marion and Bennie L. Haynes. DISTRIBUTIO  
REDUCTION OF POLYCHLORINATED BIPHENYLS (PCB) IN BLUE  
SALTATRIX (LINNAEUS) FILLETS THROUGH ADIPOSE TISSUE REMOV  
*Contam. Toxicol.* 41(5):670-677. 1988. FR 33(4)

- 004852 Sandstrom, O.; E. Neuman and P. Karas. EFFECTS OF A BLEACHED PULP EFFLUENT ON GROWTH AND GONAD FUNCTION IN BALTIC COASTAL FISH. *Water Sci. Technol.* 20(2):107-118. 1988. FR 33(4)  
Natl. Environ. Protection Board, Mar. Sect., P.O. Box 584, S-710 71 Oregrund, Sweden  
*Carassius fluviatilis* and *Rutilus rutilus*.
- 004853 Schuldts, R. J. and D. A. Johnson. TREATMENT APPROACHES TO DETECTING HEXAGENIA DURING CHEMICAL CONTROL OF SEA LAMPREYS. *Int. Great Lakes Res. Conf.* 30:A-53. 1987. Abstract only. FR 33(4)  
U.S. Fish & Wildl. Serv., Marquette, MI 49855] *Petromyzon marinus*.
- 004854 Shannon, Lyle J.; Michael C. Harrass; J. David Yount and Charles R. Bridge. A COMPARISON OF MIXED FLASK CULTURE AND STANDARDIZED LABORATORY DEL ECOSYSTEMS FOR TOXICITY TESTING. *ASTM Spec. Tech. Publ.* No. 920. p. 158-179. 1986. FR 33(4)  
Dep. Biol. Univ. Minn., Duluth 55812]
- 004855 Sharma, R. M. EFFECT OF ENDOSULFAN ON ADENOSINE TRIPHOSPHATASE (ATPase) ACTIVITY IN LIVER, KIDNEY, AND MUSCLES OF CHANNA GACHUA. *Environ. Contam. Toxicol.* 41(3):317-323. 1988. FR 33(4)  
School Studies Bot., Jiwaji Univ., Gwalior-474001, India]
- 004856 Sheehan, P. J.; R. P. Axler and R. C. Newhook. EVALUATION OF STANDARDIZED AQUATIC ECOSYSTEM TESTS TO SCREEN THE ECOLOGICAL IMPACT OF PESTICIDES. *ASTM Spec. Tech. Publ.* No. 920. p. 158-179. 1986. FR 33(4)  
Aqua Terra Technol., Pleasant Hill, CA 94523]
- 004857 Shrestha, Krishna P.; Rafael Noguera; Jose Chopite and Pastora Lopez. MERCURY CONTENT OF SOME MARINE FISH FROM THE SOUTHERN CARIBBEAN SEA. *Mar. Environ.* 73(3):181-187. 1988. FR 33(4)  
Dep. Chem., Univ. Oriente, Apdo. 104, Cumana, Edo. Sucre, 6101, Venezuela]  
*Mullus aeneus*, *M. curema*, and *Trichlurus lepturus*.
- 004858 Sodergren, A. and J. Wartiovaara, editors. FOREST INDUSTRIAL WASTEWATERS - ENVIRONMENTAL EFFECTS. SECOND VOLUME OF THE PROCEEDINGS OF THE JAWPRC SYMPOSIUM HELD AT THE UNIVERSITY OF TECHNOLOGY, FINLAND IN 1987. *Water Sci. Technol.* 20(2):1-211. 1988. FR 33(4)  
Univ. Lund, Lund, Sweden] Selected articles indexed in this issue of *Fisheries Review*.
- 004859 Sprague, J. B. A SIMPLE IN-STREAM TEST OF LABORATORY FINDINGS TO DETERMINE IF A PROTECTS FISH AND INVERTEBRATES AGAINST COPPER AND ZINC. *ASTM Spec. Tech. Publ.* No. 920. p. 213-223. 1986. FR 33(4)  
Dep. Zool., Univ. Guelph, Guelph, ON, Canada N1G 2W1]
- 004860 Sprenger, Mark D.; Alan W. McIntosh and Stephanie Hoenig. CONCENTRATIONS OF TRACE ELEMENTS IN YELLOW PERCH (*PERCA FLAVESCENS*) FROM SIX ACIDIC LAKES. *Water Air Soil Pollut.* 37(3-4):375-388. 1988. FR 33(4)  
Cent. Coastal & Environ. Studies & Dep. Environ. Sci., Rutgers Univ., New Brunswick, NJ 08903]
- 004861 Stebbins, Gary B. and William L. Huxton. DETECTION OF PENTACHLORODIBENZO

88-004862 Tam, W. H.; J. N. Fryer; I. Ali; M. R. Dallaire and B. ...  
 INHIBITION, GLUCONEOGENESIS, AND MORPHOMETRIC STUDIES OF  
 INTERRENAL CELLS OF ACID-STRESSED BROOK TROUT (*SALVE*  
*Can. J. Fish. Aquat. Sci.* 45(7):1197-1211. 1988. In English with French  
 [Dep. Zool., Univ. West. Ontario, London, ON, Canada N6A 5B7]

88-004863 Tana, J. J. SUBLETHAL EFFECTS OF CHLORINATED  
 ACIDS ON RAINBOW TROUT (*SALMO GAIIRDNERI*). *Water Sci. Technol.*  
 FR 33(4)  
 [Environ. Res. Group, Parolantie 3 D 8, SF-02200 Espoo, Finland]

88-004864 Thulin, J.; J. Hoglund and E. Lindesjoo. DISEASES AND  
 IN A BLEACHED KRAFT MILL EFFLUENT. *Water Sci. Technol.* 20  
 33(4)  
 [Natl. Environ. Protection Board, Mar. Sect., Box 584, S-740 7  
*Perca fluviatilis*, *Rutilus rutilus*, *Gymnocephalus cernuus*, and *Esox lu*

88-004865 Tietge, J. E.; R. D. Johnson and H. L. Bergman. MOR  
 IN GILL SECONDARY LAMELLAE OF BROOK TROUT (*SALVELINUS*  
 LONG-TERM EXPOSURE TO ACID AND ALUMINUM. *Can. J. Fish. Ac*  
 1648. 1988. In English with French summ. FR 33(4)  
 [Am. Sci. Int., Inc., 6201 Congdon Blvd., Duluth, MN 55804]

88-004866 van der Oost, Ron; Henk Heida and Antoon Opperhuizen  
 BIPHENYL CONGENERS IN SEDIMENTS, PLANKTON, MOLLUSCS, CRU  
 IN A FRESHWATER LAKE: IMPLICATIONS OF USING REFEREN  
 INDICATOR ORGANISMS IN BIOACCUMULATION STUDIES. *Arch*  
*Toxicol.* 17(6):721-729. 1988. FR 33(4)  
 [Environ. Res. Lab., Amstelveenseweg 88-90, 1075 XJ Amsterdam,  
*anguilla* in the Netherlands.

88-004867 Vas, Philip and J. D. M. Gordon. TRACE METAL CONC  
 SCYLORHINID SHARK *GALEUS MELASTOMUS* FROM THE ROCKALL  
*Bull.* 19(8):396-398. 1988. FR 33(4)  
 [Dep. Biol. Sci., Univ. Salford, Salford M5 4WT, England]

88-004868 Veijanen, Anja; Mirja Lahtlpera and Jaakko Paasivirta. A  
 OF OFF-FLAVOURS IN THE AQUATIC ENVIRONMENT. *Water Sci. T*  
 1988. FR 33(4)  
 [Univ. Jyvaskyla, Dep. Chem., Kyllikinkatu 1-3, 40100 Jyvaskyla,

88-004869 Volmer, Johannes; Werner Kordel and Werner Klein. A PR  
 CALCULATING TAXONOMIC-GROUP-SPECIFIC VARIANCES FOR USE  
 ASSESSMENT. *Chemosphere* 17(8):1493-1500. 1988. FR 33(4)  
 [Fraunhofer-Inst. Umweltchem. & Okotoxikol., D-5948 Schmallen  
*Salmo gairdneri*, *Pimephales promelas*, *Leuciscus Idus*, *Lepor*  
*Brachydanio rerio*.

88-004870 Wachtmeister, C. A.; A. Bergman; B. O. Lund and J.

- 04871 Wahbeh, Mohammad I. and Dureid M. Mahasneh. CONCENTRATIONS OF METALS IN THE TISSUES OF SIX SPECIES OF FISH FROM AQABA, JORDAN. *Dirasat* 14(12):11-15. 1988. In English with Arabic summ. FR 33(4)  
 Dep. Biol. Sci., P.O. Box 195, Aqaba, Jordan) *Parupeneus barberinus*, *Fistularia sarda*, *Abudefduf saxatilis*, *Thalassoma lunare*, *Chaetodon fuscatus*, and *Syngnathus abaster*.
- 04872 Walker, R. L.; C. M. Wood and H. L. Bergman. EFFECTS OF LOW PHOSPHORUS AND ALUMINUM ON VENTILATION IN THE BROOK TROUT (*SALVELINUS FONTINALIS*). *Can. J. Aquat. Sci.* 45(9):1614-1622. 1988. In English with French summ. FR 33(4)  
 Dep. Biol. Sci., Univ. Calgary, Calgary, AB, Canada T2N 1N4]
- 04873 Wan, M. T., R. G. Watts and D. J. Moul. EVALUATION OF THE ACUTE TOXICITY TO JUVENILE PACIFIC SALMONIDS OF HEXAZINONE AND ITS FORMULATED PRODUCTS: PRONONE 10G, VELPAR® L, AND THEIR CARRIERS. *Bull. Environ. Contam. Toxicol.* 41(4):609-616. 1988. FR 33(4)  
 Environ. Canada, Conserv. & Protection, Environ. Protection, Pac. & Yukon Region, Room 100, Park Royal, West Vancouver, BC, Canada V7T 1A2] *Salmo gairdneri*, *Oncorhynchus nerka*, *O. keta*, *O. kisutch*, and *O. tshawytscha*.
- 04874 Weinar, Judith A.; Noreen A. Ersing; John J. Black and Alexander G. Subbin. MUTAGENIC AND CARCINOGENIC POTENTIAL OF SEDIMENTS FROM THE BUFFALO RIVER. *Int. Assoc. Great Lakes Res. Conf.* 30:A-61. 1987. Abstract only  
 Oswell Park Memorial Inst., Buffalo, NY 14263]
- 04875 Wendelaar Bonga, S. E.; P. H. M. Bain and G. Flik. CONTROL OF PROLIFERATION IN THE TELEOST *OREOCHROMIS MOSSAMBICUS*; EFFECTS OF WOUND HEALING AND DIFFERENTIATION. *Gen. Comp. Endocrinol.* 72(1):1-12. 1988. FR 33(4)  
 Dep. Anim. Physiol., Univ. Nijmegen, 6525 ED Nijmegen, Netherlands]
- 04876 Whittle, D. M.; W. H. Hyatt and M. J. Kolr. SEASONAL VARIATION IN AMPHIPHILIC CONTAMINANT LEVELS IN TISSUES OF LAKE ONTARIO SALMONIDS. *Int. Assoc. Great Lakes Res. Conf.* 30:A-62. 1987. Abstract only. FR 33(4)  
 Fish. & Oceans Canada, Great Lakes Lab. Fish. & Aquat. Sci., Burlington, ON, Canada L7R 4A6] *Salvelinus namaycush*.
- 04877 Wood, C. M.; B. P. Simons; D. R. Mount and H. L. Bergman. PHYSIOLOGICAL EVIDENCE OF ACCLIMATION TO ACID/ALUMINUM STRESS IN ADULT BROOK TROUT (*SALVELINUS FONTINALIS*). 2. BLOOD PARAMETERS BY CANNULATION. *Can. J. Aquat. Sci.* 45(9):1597-1605. 1988. In English with French summ. FR 33(4)  
 Dep. Biol., McMaster Univ., Hamilton, ON, Canada L8S 4K1]
- 04878 Wood, C. M.; D. G. McDonald; C. E. Booth; B. P. Simons; C. G. Ingersoll and H. L. Bergman. PHYSIOLOGICAL EVIDENCE OF ACCLIMATION TO ACID/ALUMINUM STRESS IN ADULT BROOK TROUT (*SALVELINUS FONTINALIS*). 1. BLOOD COMPOSITION AND NET SODIUM FLUXES. *Can. J. Fish. Aquat. Sci.* 45(9):1587-1596. 1988. In English with French summ. FR 33(4)  
 Dep. Biol., McMaster Univ., Hamilton, ON, Canada L8S 4K1]

BLOOD GASES, ACID-BASE STATUS, IONS, AND HEMATOLOGY IN ADULT  
[SALVELINUS FONTINALIS] UNDER ACID/ALUMINUM EXPOSURE. *Can. J. Fish. Aquat. Sci.* 45(9):1575-1586. 1988. In English with French summ. FR 33(4)  
[Dep. Biol., McMaster Univ., Hamilton, ON, Canada L8S 4K1]

88-004880 Woodward, Daniel F.; Elaine Snyder-Conn; Robert G. Ri  
Garland. DRILLING FLUIDS AND THE ARCTIC TUNDRA OF ALASKA: EFFECTS ON  
CONTAMINATION OF WETLANDS HABITAT AND THE TOXICITY TO  
INVERTEBRATES AND FISH. *Arch. Environ. Contam. Toxicol.* 17(5):333-344. 1987.  
[U.S. Fish & Wildl. Serv., 101 12th Ave., Fed. Bldg., Fairbanks, AK 99701]

88-004881 Zabik, Mary E.; Nancy C. Stachiw; Alden M. Booren and Mat  
EFFECT OF PROCESSING/COOKING ON DIOXIN LEVELS OF RESTAURANT  
FILLETS. *Int. Assoc. Great Lakes Res. Conf.* 30:A-64. 1987. Abstract on  
[Dep. Food Sci. & Human Nutr. & Pest. Res. Cent., Mich. State Univ., East Lansing, MI 48824] *Cyprinus carpio*.

88-004882 Zayed, S. M. A. D.; Abia Ezz El-Arab and I. Y. Mostafa. CARBOFURAN IN A RICE-FISH MODEL ECOSYSTEM. *J. Environ. Sci. Health Part C: Food Contam. Agric. Wastes* 23(4):401-407. 1988. FR 33(4)  
[Middle East. Regional Radioisotope Cent. Arab Countries, Dokki, Cairo, Egypt]

#### RESEARCH AND MANAGEMENT-GENERAL

88-004883 Ables, Ernest D. and Kerry P. Reese. USDA FUNDING FOR  
RESEARCH. *Fisheries (Bethesda)* 13(5):22-24. 1988. FR 33(4)  
[Fish & Wildl. Dep., Univ. Idaho, Moscow 83843]

88-004884 Bas, Carlos. [BIOLOGICAL AND ECONOMIC ASPECTS OF FISH AND THEIR INTEGRATION.] *Invest. Pesq.* 51(Suppl. 2):1-5. 1987. In Spanish. FR 33(4)  
[Inst. Cienc. Mar. Paseo Nac., s/n 08003 Barcelona, Spain]

88-004885 Bayley, Peter B. ACCOUNTING FOR EFFORT WHEN COMPARING FISHERIES IN LAKES, RIVER-FLOODPLAINS, AND LAGOONS. *Limnol. Oceanogr.* 2(2):963-972. 1988. FR 33(4)  
[Nat. Hist. Surv., 607 E. Peabody Dr., Champaign, IL 61820]

88-004886 Bence, J. R. INDIRECT EFFECTS AND BIOLOGICAL CONTROL BY MOSQUITOFISH. *J. Appl. Ecol.* 25(2):505-521. 1988. FR 33(4)  
[Mar. Review Comm., 275 'D' Orange Ave., Goleta, CA 93117] California.

88-004887 Brown, Randall L. 1985-1986 ANNUAL REPORT OF THE ECOLOGICAL STUDIES PROGRAM FOR THE SACRAMENTO-SAN JOAQUIN ESTUARY. *Interagency Ecol. Study Prog. Sacramento-San Joaquin Estuary Annu. Rep.* 33(4)  
[Dep. Water Resour., P.O. Box 942836, Sacramento, CA 94236-0001]



- 004888 Charbonneau, J. JOHN. NATIONAL SURVEYS RELATED TO DATA NEEDS OF RECREATIONAL FISHERIES. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 37-39. 1980. In English with French summ. FR 33(4)  
[U.S. Fish & Wildl. Serv., Washington, DC 20240]
- 004889 Crutchfield, Stephen R. FISHERY ECONOMICS: CURRENT STATUS AND PROSPECTS FOR THE FUTURE. *Invest. Pesq.* 51(Suppl. 2):7-19. 1987. In English with French summ. FR 33(4)  
[Dep. Resour. Econ., Univ. R.I., Kingston]
- 004890 Deuel, David G. SURVEY METHODS USED IN THE UNITED STATES MARINE RECREATIONAL FISHERY STATISTICS PROGRAM. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 82-86. 1980. In English with French summ. FR 33(4)  
[U.S. Dep. Commerce, NOAA, NMFS, Washington, DC 20235]
- 004891 Deuel, David G. SPECIAL SURVEYS RELATED TO DATA NEEDS OF RECREATIONAL FISHERIES. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 77-81. 1980. In English with French summ. FR 33(4)  
[U.S. Dep. Commerce, NOAA, NMFS, Washington, DC 20235]
- 004892 Dill, William A. BEST USE OF FISHERY RESOURCES: ECOLOGICAL CONSIDERATIONS. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 1-10. In English with French summ. FR 33(4)  
[Fish. Consult., 730 N. Campus Way, Davis, CA 95616]
- 004893 European Inland Fisheries Advisory Commission. NATIONAL REPORTS OF MEMBER COUNTRIES FOR THE PERIOD JANUARY 1986 - DECEMBER 1987. *EIFAC Inland Fish. Advls. Comm.) Occas. Pap.* No. 20. 100p. 1988. In English. FR 33(4)  
[European Inland Fish. Comm., Fish. Dep., FAO, Via della Terme di Caracalla, Rome, Italy]
- 004894 Garcia Alonso, Jose M. [THE BREAKDOWN OF THE LIBERTY OF THE FISHING PRINCIPLE AND THE WORLD FISHERIES CRISIS.] *Invest. Pesq.* 51(Suppl. 2):13-17. In Spanish with English summ. FR 33(4)  
[Dep. Estructura Econ., Fac. Cienc. Econ. & Empresariales, Univ. Complutense, Madrid]
- 004895 Grover, John H., editor. ALLOCATION OF FISHERY RESOURCES: PROCEEDINGS OF THE TECHNICAL CONSULTATION ON ALLOCATION OF FISHERY RESOURCES HELD IN VICHY, FRANCE, 20-23 APRIL 1980. *FAO/Am. Fish. Soc.* 623p. 1980. FR 33(4)  
[U.S. Dep. Fish. & Allied Aquacult., Auburn Univ., Auburn, AL 36849] Individual chapters indexed in this issue of *Fisheries Review*.
- 004896 Hoeger, Sven. SCHWIMMKAMPEN GERMANY'S ARTIFICIAL FLOATING ISLANDS. *Wetland Water Conserv.* 43(4):304-306. 1988. FR 33(4)  
[P.O. Box 597, Pawling, NY 12564]
- 004897 Johnson, Raymond E. ORIGINS OF RECREATIONAL AND COMMERCIAL FISHERIES IN THE UNITED STATES. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 154-157. 1980. In English with French summ.

- 83-004898 Joseph, Edwin B. CONCEPTUAL AND PRACTICAL DIFFICULTIES IN THE ALLOCATION IN MIXED COMMERCIAL/RECREATIONAL FISHERIES IN THE SOUTHERN UNITED STATES. In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 197-200. In English with French summ. FR 33(4)  
[Mar. Resour. Div., Wildf. & Mar. Resour. Dep., P.O. Box 12559, Charleston, SC]
- 83-004899 Kerstens, A. P. C. CAPACITY-PLANNING AND SPORTFISHERY IN THE NETHERLANDS. In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 191-196. In English with French summ. FR 33(4)  
[Minist. Agric. & Fish., Griffioenlaan 2, 3502 La Utrecht, Netherlands]
- 83-004900 Leopold, Marian; Maria Bnlaska and Mieczyslaw Hus. ANGLING, RECREATIONAL FISHERIES AND PROBLEMS OF WATER RESOURCES ALLOCATION IN POLAND. In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 212-221. 1980. In English with French summ. FR 33(4)  
[Inland Fish. Inst., Blok 5, 10-957 Olsztyn-Kortowo, Poland]
- 83-004901 Lind, Esko A. FISHING, FISH YIELD PARAMETERS AND STOCKS IN FRESHWATER BASINS IN FINLAND. In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 243-248. 1980. In English with French summ. FR 33(4)  
[Dep. Zool., Univ. Oulu, 90100 Oulu 10, Finland]
- 83-004902 Loftus, Kenneth H.; Arthur S. Holder and Henry A. Rogier. A NEW STRATEGY FOR ALLOCATING ONTARIO'S FISHERY RESOURCES. In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 255-264. 1980. In English with French summ. FR 33(4)  
[Ontario Minist. Nat. Resour., Toronto, ON, Canada]
- 83-004903 Marzoa, Antonio. [IMPORTANCE OF THE ASSOCIATIVE STRUCTURE IN THE ECONOMICS OF FISHERY EXPLOITATION.] *Invest. Pesq.* 51(Suppl. 2):93-98. 1980. In Spanish with English summ. FR 33(4)  
[Union Nac. Coop. Mar., 28-Madrid, Spain]
- 83-004904 Mawle, G. W. and P. F. Randerson. A METHOD FOR THE ASSESSMENT OF DEMAND FOR RECREATIONAL FISHING IN THE SOUTH WALES AREA OF THE SOUTHERN OCEAN. In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 265-273. 1980. In English with French summ. FR 33(4)  
[Dep. Appl. Biol., Univ. Wales Inst. Sci. & Technol., King Edward VII Ave., Cardiff, Wales]
- 83-004905 McCabe, Richard E., editor. TRANSACTIONS OF THE FIFTY-THIRD ANNUAL AMERICAN WILDLIFE AND NATURAL RESOURCES CONFERENCE. *Wildl. Manage.* (Washington, DC) 621p. 1988. FR 33(4)  
[Galt House, Louisville, KY] Selected papers indexed in this issue of *Fisheries Research*
- 83-004906 Menendez De La Hoz, Miguel. [THE STATISTICAL CONTROLS IN THE ALLOCATION OF FISHERY POLICY OF THE EEC.] *Invest. Pesq.* 51(Suppl. 2):113-118. 1987. In Spanish with English summ. FR 33(4)  
[Consejeria Agric. & Pesca Asturias, Apdo. 732, 33080 Oviedo, Spain]

- 004908 Olmedilla, Jesus. [LEGAL SECURITY AND FISHERY ECONOMICS.] *Invest. Suppl.* 2:161-167. 1987. In Spanish with English summ. FR 33(4)  
[Paseo Gracia, 81.08008 Barcelona, Spain]
- 004909 Parker, Nick C. AQUACULTURE--NATURAL RESOURCE MANAGERS' *Trans. N. Am. Wildl. Nat. Resour. Conf.* 53:584-593. 1988. FR 33(4)  
[U.S. Fish & Wildl. Serv., Southeast. Fish Cult. Lab., Marion, AL]
- 004910 Salojarvi, Kalervo and Hannu Lehtonen. SUBSISTENCE AND RECREATION FISHERIES IN FINLAND. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 327-332. 1980. In English with French summ. FR 33(4)  
[Game & Fish. Res. Inst., Fish. Div., P.O. Box 193, SF-00131 Helsinki 13, Finland]
- 004911 Sanchez Blanco, Jeronimo. [THE FISHERY COMPANIES FINANCING PROBLEMS.] *Invest. Pesq.* 51(Suppl. 2):119-130. 1987. In Spanish with English summ. FR 33(4)  
[Credito Social Pesquero, Minist. Econ. & Hacienda, 28 Madrid, Spain]
- 004912 Stabler, M. J. ESTIMATION OF THE BENEFITS OF FISHING ON U.K. CANALS AND RIVERS: SOME PROBLEMS OF METHOD. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 346-355. 1980. In English with French summ. FR 33(4)  
[Amenity Waterways Study Unit, Dep. Econ. Univ. Reading, Whiteknights, Reading, England]
- 004913 Stabler, M. J. ESTIMATION OF THE ECONOMIC BENEFITS OF FISHING ON U.K. CANALS AND RIVERS: A REVIEW NOTE. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 356-360. In English with French summ. FR 33(4)  
[Amenity Waterways Study Unit, Dep. Econ., Univ. Reading, Whiteknights, Reading, England]
- 004914 Strand, Ivar E., Jr. and Virgil J. Norton. SOME ADVANTAGES OF LAND REFORMS IN FISHERY MANAGEMENT. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 411-417. 1980. In English with French summ. FR 33(4)  
[Dep. Agric. & Resour. Econ., Univ. Md., College Park 20742]
- 004915 Sutinen, J. G. ECONOMIC PRINCIPLES OF ALLOCATION IN RECREATION AND COMMERCIAL FISHERIES. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 432-436. 1980. In English with French summ. FR 33(4)  
[Dep. Resour. Econ., Univ. R.I., Kingston 02881]
- 004916 Tallholm, Daniel R. DEFINING ANGLING SUPPLY: THE KEY TO RECREATION FISHERY RESOURCE EVALUATION. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 443-451. 1980. In English with French summ. FR 33(4)  
[Dep. Resour. Econ., Univ. R.I., Kingston 02881]

8-004917 Teer, James G. and Richard L. Noble. PARALLELISMS IN MANAGEMENT OF FISH AND WILDLIFE. *Trans. N. Am. Wildl. Nat. Resour. Conf.* 53:564-568. 1988. FR 33(4)  
[Welder Wildl. Found., Sinton, TX]

8-004918 University of Hawaii Department of Zoology. TWELFTH ANNUAL ALBERTA BAKER MEMORIAL SYMPOSIUM 2-3 APRIL 1987. *Pac. Sci.* 42(1-2):115-138. 1988. FR 33(4)  
Selected papers indexed in this issue of *Fisheries Review*.

8-004919 van Haasteren, L. M. and A. T. de Groot. SUMMARY OF THE PRODUCTION ANALYSES OF THE DEMAND FOR AND THE SUPPLY OF FACILITIES FOR SPORT FISHING. *Allocation of Fishery Resources*. John H. Grover, editor. p. 468-479. 1980. In English with French summ. FR 33(4)  
[Dep. Agric. & Fish., Fish. Dir., Hague, Netherlands]

8-004920 Varela, Manuel. [PRODUCTION PROCESSES IN FISHERIES.] *Inves. Econ.* (Suppl. 2):81-92. 1987. In Spanish with English summ. FR 33(4)  
[Dep. Estructura Econ., Colegio Univ. Vigo, Univ. Santiago, 36-Vigo, Santiago, Spain]

#### ADMINISTRATION AND PLANNING

8-004921 Barngrover, Bruce G. ANNUAL REPORT: MAD RIVER SALMON AND STEELHEAD HATCHERY, 1986-87. *Calif. Dep. Fish Game Inland Fish. Adm'n. Rep.* No. 88-3. 10 p. 1988. FR 33(4)

8-004922 Dixon, Roger and Robert W. Rose. ANNUAL REPORT: VAN ARSDALE FISH HATCHERY, 1986-87. *Calif. Dep. Fish Game Inland Fish. Adm'n. Rep.* No. 88-1. 10 p. 1988. FR 33(4)

8-004923 Gunter, E. Royce, Jr. ANNUAL REPORT: WARM SPRINGS SALMON AND STEELHEAD HATCHERY, 1985-86. *Calif. Dep. Fish Game Inland Fish. Adm'n. Rep.* No. 88-4. 7p. 1988. FR 33(4)

8-004924 Gunter, E. Royce, Jr. ANNUAL REPORT: WARM SPRINGS SALMON AND STEELHEAD HATCHERY, 1986-87. *Calif. Dep. Fish Game Inland Fish. Adm'n. Rep.* No. 88-5. 7p. 1988. FR 33(4)

8-004925 Poe, Sidney D. ANNUAL REPORT: NOYO RIVER EGG COLLECTING STATION, 1986-87. *Calif. Dep. Fish Game Inland Fish. Adm'n. Rep.* No. 88-2. 7p. 1988. FR 33(4)

8-004926 Reeff, Mark J. and Steven N. Moyer. IN-KIND MATCH AND WALLOP: INNOVATIVE SOURCES OF STATE SUPPORT FOR SPORT FISHERIES MANAGEMENT. *N. Am. Wildl. Nat. Resour. Conf.* 53:171-179. 1988. FR 33(4)  
[Int. Assoc. Fish & Wildl. Agencies, Washington, DC]

004927 Truitt, Robin C. OPPORTUNITIES TO PROTECT INSTREAM FLOWS AND LAND USES OF WATER IN SOUTH CAROLINA. *U.S. Fish Wildl. Serv. Biol. Rep.* 84:46p. 1988. FR 33(4)  
Univ. Denver, Coll. Law, 7039 E. 18th Ave., Denver, CO 80220]

004928 Zagata, Michael D. MITIGATION BANKING AS AN INCENTIVE TO INDUSTRY AND TO FISH AND WILDLIFE AGENCIES. *Trans. N. Am. Wildl. Nat. Resour. Conf.* 53:1-10. 1988. FR 33(4)  
Tenneco Oil Co. Explor. & Prod., Houston, TX]

#### HABITAT ALTERATIONS

004929 Amorochio, J.; Tariq N. Kadir; J. J. DeVries and W. J. Hartman. SUSCEPTIBILITY STUDIES FOR THE SACRAMENTO RIVER DIVERSION TO THE PERIPHERAL ESTUARIES. *Final Interagency Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep.* 84:1-10. 1983. FR 33(4)  
Calif. Dep. Land, Air & Water Resour., Univ. Calif., Veihmeyer Hall, Davis, CA 95616]

004930 Baker, J. A.; R. L. Kasul; L. E. Winfield; C. R. Bingham; C. H. Pennell and R. E. Coleman. AN ECOLOGICAL INVESTIGATION OF THE BALESHED LANDING AND AJAX BAR DIKE SYSTEMS IN THE LOWER MISSISSIPPI RIVER, RIVER MILE 494 TO 494 AHP. *Lower Miss. River Environ. Program Rep.* 12. 104p. 1988. Available from NTIS 5285 Port Royal Rd., Springfield, VA 22161. FR 33(4)  
USDA/USFWS, Environ. Lab., P.O. Box 631, Vicksburg, MS 39180-0631]

004931 Baker, John A.; Richard L. Kasul; Linda E. Winfield; C. Rex Bingham; C. H. Pennell and Richard E. Coleman. AN ECOLOGICAL INVESTIGATION OF REVETTED RIVER BANK HABITATS IN THE LOWER MISSISSIPPI RIVER. *Lower Miss. River Environ. Program Rep.* 9. 124p. 1988. Available from NTIS 5285 Port Royal Rd., Springfield, VA 22161. FR 33(4)  
USDA/USFWS, Environ. Lab., P.O. Box 631, Vicksburg, MS 39180-0631]

004932 Cuinat, R.; P. Bomassi; B. Bousquet; G. Joberton and A. Joberton. OBSERVATIONS OF JUVENILE ATLANTIC SALMON (SMOLTS) BLOCKED IN THE WAKE OF A NUCLEAR POWER STATION IN THE LOIRE. *In: Allocation of Fisheries Resources. John H. Grover, editor.* p. 57-67. 1980. In French with English summ. FR 33(4)  
34 Ave. du Puy-de-Dome, 63000 Clermont-Ferrand, France] *Salmo salar*.

004933 Cuinat, Robin. [MODIFICATION OF RIVER BEDS: CONSEQUENCES FOR FISH BIOLOGY AND FISHERIES.] *In: Allocation of Fisheries Resources. John H. Grover, editor.* p. 47-56. 1980. In French with English summ. FR 33(4)  
34 Ave. du Puy-de-Dome, 63000 Clermont-Ferrand, France]

004934 Davis, Wayne L. IMPACT OF CHANNEL MODIFICATION AND HABITAT RESTORATION ON THE FISHERIES AT POOR FORK CUMBERLAND RIVER, CANEY CREEK AND RIGHT FORK BEAVER CREEK. *Ky. Dep. Fish. Wildl. Resour. Fish. Bull.* No. 84:1-10. 1988. FR 33(4)

004935 Decamps, H. [IMPACT OF VARIOUS UTILIZATIONS ON A WATERSHED. *Allocation of Fisheries Resources. John H. Grover, editor.* p. 68-70. 1980. In French with English summ. FR 33(4)

THEIR EFFECTS ON AQUATIC LIFE.] In: Allocation of Fishery Resources. *editor*, p. 93-96. 1980. In French with English summ. FR 33(4)  
[Le Tholonet B. P. 92, 13603 Aix-en-Provence, France]

88-004937 Dumont, B. and B. Rivier. [HYDROELECTRIC MANAGEMENT OF LIFE IN THE ALPS.] In: Allocation of Fishery Resources. *John H. Grove editor*, 1980. In French with English summ. FR 33(4)  
[Le Tholonet, B.P. 92, 13603 Aix-en-Provence, France]

88-004938 Eshenroder, Randy L. A METHOD FOR ASSESSING THE EFFECTS OF ORGANIC INFILLING AND CONTAMINANTS ON LAKE TROUT REPRODUCTION IN THE GREAT LAKES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-18. 1987. Abstract only. FR 33(4)  
[Great Lakes Fish. Comm., 1451 Green Rd., Ann Arbor, MI 48105] *Salvelinus namaycush*

88-004939 Garcia de Jalon, Diego; Carlos Montes; Elena Barcelo; Carlos Felicidad Menes. EFFECTS OF HYDROELECTRIC SCHEME ON FLUVIAL ECOSYSTEMS IN THE SPANISH PYRENEES. *Regul. Rivers Res. Manage.* 2(4):479-491. 1988. Abstract only. FR 33(4)  
[E. T. S. I. Montes, Univ. Politecnica Madrid, Ciudad Universitaria, 28002 Madrid, Spain] *Salmo trutta fario*, *Barbus barbus bocagel*, *Chondrostoma toxostoma*, *barbatulus*.

88-004940 Gerber, Glenn P.; James M. Haynes and Joseph K. Buttner. BEHAVIOR OF SMALLMOUTH BASS IN SOUTHCENTRAL LAKE ONTARIO. *Lakes Res. Conf.* 30:A-23. 1987. Abstract only. FR 33(4)  
[Biol. Sci., SUNY, Brockport, NY 14420] *Micropterus dolomieu*.

88-004941 Landin, Mary C. and Andrew C. Miller. BENEFICIAL USE OF WETLAND MATERIAL: A STRATEGIC DIMENSION OF WATER RESOURCE MANAGEMENT. *Am. Wildl. Nat. Resour. Conf.* 53:316-325. 1988. FR 33(4)  
[U.S. Army Eng. Waterways Exp. Stn., Vicksburg, MS]

88-004942 Manny, Bruce A. DEGRADATION OF LAKE TROUT SPAWNING HABITAT IN THE GREAT LAKES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-23. 1987. Abstract only. FR 33(4)  
[U.S. Fish & Wildl. Serv., 1451 Green Rd., Ann Arbor, MI 48105] *Salvelinus namaycush*

88-004943 Moore, Kelly M. S. and Stan V. Gregory. RESPONSE OF YOUTHFUL CUTTHROAT TROUT TO MANIPULATION OF HABITAT STRUCTURE IN A SMALL TROPICAL STREAM. *Trans. Am. Fish. Soc.* 117(2):163-170. 1988. FR 33(4)  
[Dep. Fish & Wildl., Oreg. State Univ., Corvallis 97331] *Salmo clarki* in *Salvelinus namaycush*

88-004944 Nichols, Alan B. A VITAL ROLE FOR WETLANDS. *J. Water Pollut. Control Fed.* 60(7):1215-1221. 1988. FR 33(4)  
[WPCF, 601 Wythe St., Alexandria, VA 22314-1994]

88-004945 Odom, Michael C.; Richard J. Neves and John J. Neeson. EFFECTS OF WETLANDS ON THE SPAWNING MIGRATIONS OF ANADROMOUS FISHES IN THE RIVER CHESAPEAKE. *Va. J. Sci.* 39(2):150. 1988. Abstract only. FR 33(4)

88-001954 CONTINUED p. 493-501. 1980. In English with French summ. FR 33(4)  
[Dep. Zool. & Entomol., Colo. State Univ., Fort Collins 80523]

#### HARVEST, CREEL CENSUS, ETC.

88-004955 Lind, Esko A. LONG-TERM TRENDS IN RIVER AND OFF-SHORE OF THE SALMON, *SALMO SALAR*, IN FINLAND. In: *Allocation of Fisheries Resources*, H. Grever, editor, p. 249-254. 1980. In English with French summ. FR 33(4)  
[Dep. Zool., Univ. Oulu, 90100 Oulu 10, Finland]

88-004956 Nishikawa, Yasuo and Ikuo Warashina. [ESCOLAR *FLAVOBRUNNEUM* (SMITH), COMMERCIALY FISHED IN THE WATERS OF THE PACIFIC COAST OF JAPAN.] *Bull. Far Seas Fish. Res. Lab.* No. 25. p. 73-145. 1988. In Japanese with English summ. FR 33(4)  
[Far Seas Fish. Res. Lab., 7-1, 5-chome Orido, Shimizu 424, Japan]

88-004957 Straight, Lee. SEA-SALMON AND TROUT: THE BEST OF ANADROMOUS SALMONIDS. In: *Allocation of Fishery Resources*, John H. Garman, editor, p. 403-410. 1980. In English with French summ. FR 33(4)  
[Dep. Fish. & Oceans, Pac. Region, Vancouver, BC, Canada V6E 2P1]

88-004958 Suzuki, Ziro. STUDY OF INTERACTION BETWEEN LONGLINE FISHERIES ON YELLOWFIN TUNA, *THUNNUS ALBACARES* (BONNATERRE). *Bull. Far Seas Fish. Res. Lab.* No. 25. p. 73-145. 1988. In English with Japanese summ. FR 33(4)  
[Far Seas Fish. Res. Lab., 7-1, 5-chome Orido, Shimizu 424, Japan]

#### FISH CONTROL AND REMOVAL

88-004959 Bulow, Frank J.; Mark A. Webb; W. Dennis Crumby and Scott E. Johnson. EFFECTIVENESS OF A FISH BARRIER DAM IN LIMITING MOVEMENT OF SALMON FROM A RESERVOIR INTO A TRIBUTARY STREAM. *N. Am. J. Fish. Manage.* 8:198-204. 1988. FR 33(4)

[Dep. Biol. & Cent. Manage., Utilization, & Prot. Water Resour., Tennessee State Univ., Cookeville 38505] *Aplodinotus grunniens*, *Moxostoma duquesneli*, *Ictalurus nebulosus*, *carpio*, *Dorosoma cepedianum*, *M. erythrum*, and *M. anisurum* In Tennessee

88-004960 Kano, Robert M. RESPONSES OF JUVENILE COHO SALMON, *ONCORHYNCHUS Tshawytscha*, AND AMERICAN SHAD, *ALOSA SAPIDISSIMA*, TO SHORT-TERM EXPOSURE TO TWO-VECTOR VELOCITY FLOWS. *Interagency Sacramento-San Joaquin Estuary Tech. Rep.* 4. 20p. 1982. FR 33(4)  
[Bay-Delta Fish. Project, 4001 N. Wilson Way, Stockton, CA 95205]

88-004961 Lamsa, Arne K. USE OF BARRIERS TO REDUCE SEA LAMPREY IN THE GREAT LAKES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-37. 1987. FR 33(4)  
[Great Lakes Fish. Comm., 1451 Green Rd., Ann Arbor, MI 48105] *Petromyzon marinus*

88-004962 Pickard, Alan; Alan Baracco and Robert Kano. OCCURRENCE AND SIZE OF FISH AT THE ROARING RIVER SLOUGH INTAKE, CALIFORNIA DURING THE 1980-81 AND THE 1981-82 DIVERSION SEASONS. *Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep. 3*. 14p. 1981. FR 33(4)  
[Bay-Delta Fish. Project, 4001 N. Wilson Way, Stockton, CA 95205]

88-004963 Rain, K. Janaki; G. R. M. Rao; S. Ayyappan; C. S. Purushotham Saha; K. C. Panigrahi and H. K. Muduli. A COMBINATION OF COMMERCIAL FISH FEEDING POWDER AND UREA AS A POTENTIAL PISCICIDE. *Aquaculture 72*(3/4): 33-37. 1988. FR 33(4)  
[Cent. Inst. Freshwater Aquacult. (ICAR), Kausalyaganj, Bhubaneswar, India] *Channa punctatus*.

88-004964 Seelye, James G. NEW APPROACH TO CONTROLLING SEA LAMPREY RELEASE. *Int. Assoc. Great Lakes Res. Conf. 30*:A-54. 1987. FR 33(4)  
[U.S. Fish & Wildl. Serv., Hammond Bay Biol. Stn., Rt. 1, Box 41, Hammond, MI 49759] *Petromyzon marinus*.

88-004965 Seelye, James G.; David A. Johnson; Jerry G. Weise and Evan G. Ruppel. A GUIDE FOR DETERMINING APPLICATION RATES OF LAMPRICIDES FOR SEA LAMPREY AMMOCETES. *Great Lakes Fish. Comm. Tech. Rep. No. 52*. 23p. 1987. FR 33(4)  
[U.S. Fish & Wildl. Serv., Hammond Bay Biol. Stn., Millersburg, OH 44661] *gairdneri*, *Perca flavescens*, *Ictalurus punctatus*, and *Petromyzon marinus*.

88-004966 Smith, Lawrence W. CLOGGING, CLEANING, AND CORROSION: POSSIBLE FISH SCREENS FOR THE PROPOSED PERIPHERAL CANAL. *Study Prog. Sacramento-San Joaquin Estuary Tech. Rep. 1*. 64p. 1982. FR 33(4)  
[Dep. Water Resour., P.O. Box 942836, Sacramento, CA 94236-0001]

88-004967 Weise, J. G. EVALUATING LENTIC LARVAL SEA LAMPREY (*PETROMYZON MARINUS*) POPULATIONS. *Int. Assoc. Great Lakes Res. Conf. 30*:A-55. 1987. FR 33(4)  
[DFO, Sea Lamprey Control Cent., Sault Ste. Marie, ON, Canada P6A 1K6]

## MARKING AND TAGGING

88-004968 Bourgeois, C. E. and M. F. O'Connell. OBSERVATIONS ON THE MIGRATION OF ATLANTIC SALMON (*SALMO SALAR* L.) SMOLTS THROUGH THE ST. JOHN RIVER AS DETERMINED BY RADIOTELEMETRY AND CARLIN TAGGING STUDY. *Can. J. Fish. Aquat. Sci. 45*(3):685-691. 1988. In English with French summ. FR 33(4)  
[Sci. Branch, Dep. Fish. & Oceans, P.O. Box 5667, St. John's, NF, Canada A1B 6X4]

88-004969 Chandler, G. L. and T. C. Bjornn. AN EVALUATION OF A POTENTIAL GENETIC MARKER IN STEELHEAD. *Idaho Coop. Fish Wildl. Res. Rep. 88*(2):60-71. 1988. FR 33(4)  
[Coop. Fish & Wildl. Res. Unit, Univ. Idaho, Moscow 83843] *Salmo gairdneri*.



88-004970 Gausen, D. and O. K. Berg. STRONTIUM LEVELS IN SCALE OF WILD AND HATCHERY-REARED ATLANTIC SALMON, *SALMO SALAR* L. *Aquacult. Fish. Manage.* 19(3):299-304. 1988. FR 33(4)

[Dir. Nat. Manage., Tungasletta 2, N-7004 Trondheim, Norway] S. tru

88-004971 Hanson, Lars P. EFFECTS OF CARLIN TAGGING AND SURVIVAL OF ATLANTIC SALMON (*SALMO SALAR* L.) RELEASED AS SM 70(4):391-394. 1988. FR 33(4)

[Dir. Nat. Manage., Fish Res. Div., Tungasletta 2, N-7047 Trondheim,

88-004972 Heidinger, Roy C. and S. Bradford Cook. USE OF CODE MARKING FINGERLING FISHES. *N. Am. J. Fish. Manage.* 8(2):268-272. 1988.

[Coop. Fish. Res. Lab. & Dep. Zool., South. Ill. Univ., Carbondale *vitreum*, *Notemigonus crysoleucas*, *Ictalurus punctatus*, *Lepomis Micropterus salmoides*

88-004973 Johnsen, B. O. and O. Ugedal. EFFECTS OF DIFFERENT CLIPPING ON OVER-WINTER SURVIVAL AND GROWTH OF FINGERLING SALMO *TRUTTA* L., STOCKED IN SMALL STREAMS IN NORWAY. *Aquacult.* 19(3):305-311. 1988. FR 33(4)

[Dir. Nat. Manage., Tungasletta 2, N-7000 Trondheim, Norway]

88-004974 Konovalov, Yu. D. EFFECT OF METALS IN WATER ON DYE SEX CELLS OF FISHES. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(3):33(4)

[Inst. Hydrobiol., Acad. Sci. Ukrainian SSR, Kiev, USSR] *Ctenopharyngodon idella*, and *Hypophthalmichthys molitrix*.

88-004975 Nashida, Kazuya and Kazunori Kato. [STUDIES ON GROUND IN THE COASTAL WATERS OF NORTHERN NIIGATA PREFECTURE. II FISHING MORTALITY COEFFICIENT OF YOUNG BASTARD HALIBUT *OLIVACEUS*, FROM TAGGING EXPERIMENTS.] *Bull. Jpn. Sea Reg. Fish.* 20. 1988. In Japanese with English summ. FR 33(4)

[Japan Sea Regional Fish. Res. Lab., Suido-cho, Niigata 951, Japan]

88-004976 Tsukamoto, K.; K. Mochizuki; T. Otake; Y. Yamazaki; M. Kajihara. LARVAL MIGRATION OF AMPHIDROMOUS AYU: APPLICATION OF TAGGING TO A MARK-RECAPTURE STUDY ON EGGS AND LARVAE. *Am.* 1:551. 1987. Abstract only. FR 33(4)

[Ocean Res. Inst., Univ. Tokyo, Minamidai, Nakano-ku, 164 Tokyo, *ativells*.

88-004977 Tsukamoto, Katsumi. OTOLITH TAGGING OF AYU EMBRYO WITH SUBSTANCES. *Nippon Suisan Gakkaishi* 54(8):1289-1295. 1988. In English summ. FR 33(4)

[Ocean Res. Inst., Univ. Tokyo, Minamidai, Nakano, Tokyo 164, *ativells*.

88-004978 Tyus, Harold M. LONG-TERM RETENTION OF IMPLANTED COLORADO SQUAWFISH AND RAZORBACK SUCKER. *N. Am. J. Fish. Manage.* 1988. FR 33(4)

## RANKING AND TAGGING (CONTINUED)

00-1979 van der Elst, R.; E. Bullen and F. Adkin. COOPERATIVE MARINE TAGGING IN SOUTH AFRICA. *Ocean. Res. Inst. (Durban) Poster No. 11*. 1987. Part of the Sixth National Oceanographic Symposium, University of Stellenbosch, Stellenbosch, South Africa, 1987. FR 33(4)  
 Oceanogr. Res. Inst., P.O. Box 10712, Marine Parade, Durban 4056, South Africa

## STOCKING AND INTRODUCTIONS

00-1980 Chandler, G. L. and T. C. Bjornn. RELATIVE SURVIVAL AND GROWTH OF COHO SALMON (RIVER HELLGRABER) FINGERLINGS EMERGING EARLY VERSUS LATE FROM REDDS. *Idaho Coop. Fish Wildl. Res. Tech. Rep. 88(2):1-59*. 1988. FR 33(4)  
 Idaho Coop. Fish & Wildl. Res. Unit, Univ. Idaho, Moscow 83843] *Salmo gairdneri* in Idaho

00-1981 Hurtle, Michael E. THE QUARANTINE OF ATLANTIC SALMON (*SALMO SALAR*) IN TASMANIA, 1984-86. *Tasm. Mar. Lab. Tech. Rep. No. 29*. 31p. 1988. FR 33(4)  
 Dep. Sea Fish. Tasm. Mar. Lab., Crayfish Point, Tarooma, Tasm. 7053, Australia

00-1982 Irvine, J. R. POSTSTOCKING MOVEMENTS OF LARGE COHO SALMON (*Oncorhynchus kisutch*) FINGERLINGS INTRODUCED IN FEBRUARY INTO A RIVER TRIBUTARY OF THE PACIFIC COASTAL STREAM. *Can. J. Fish. Aquat. Sci.* 45(7):1316-1321. 1988. In English  
 Dep. Fish. & Oceans, Biol. Sci. Branch, Pac. Biol. Stn., Nanaimo, BC, Canada

00-1983 Kinman, Benjamin T. EVALUATION OF STRIPED BASS INTRODUCTION TO THE COMMONWEALTH OF KENTUCKY. *Ky. Dep. Fish. Wildl. Resour. Fish. Bull. No. 83*. 49p. 1988. FR 33(4)  
 Dep. Fish. & Game, Frankfort, Ky.

00-1984 Rossl, R.; A. Carrieri; M. G. Rizzo and M. Lucchini. USE OF INTENSIVE REARING SYSTEMS AS BACK-UP FOR COASTAL LAGOON AQUACULTURE: AN EXPERIMENT WITH EELS, *ANGUILLA ANGUILLA* L., IN THE COMACCHIO LAGOONS. *Aquaculture* 19(4):355-361. 1988. FR 33(4)  
 Inst. Zool., Univ. Ferrara, Via Borsari 46, 41100 Ferrara, Italy]

00-1985 Welcomme, R. L., compiler. INTERNATIONAL INTRODUCTIONS OF AQUACULTURE SPECIES. *FAO Fish. Tech. Pap. No. 294*. 318p. 1988. FR 33(4)  
 Fish. Resour. & Environ. Div., FAO Fish. Dep., Rome, Italy]

00-1986 Williams, Jack E.; Donald W. Sada; Cynthia Deacon Williams; James R. Deacon; E. Johnson; Paul C. Marsh; Don E. McAllister; E. Philip Pister; Randy D. Stone; N. Rinne; Michael D. Stone; Linda Ulmer and Donna L. Withers. AMERICAN FISHERIES SOCIETY GUIDELINES FOR INTRODUCTIONS OF THREATENED AND ENDANGERED SPECIES. *Bethesda* 13(5):5-11. 1988. FR 33(4)  
 Dep. Wildl. & Fish. Biol., Univ. Calif., Davis 95616-5270]

88-004989 Dahm, E. BIBLIOGRAPHY OF EXISTING LITERATURE ON INLAND WATER FISHING GEAR PUBLISHED BY EUROPEAN AUTHORS (*Fish. Advis. Comm. Occas. Pap.* No. 18. 48p. 1987. FR 33(4)  
[Bundesforschungsanstalt Fisch., Inst. Fangtech., Palmaille 9-200 Germany]

88-004990 Kajihara, Takeshi; Katsumi Tsukamoto; Tsuguo Otake; Hiroshi Hasumoto; Machiko Oya and Osamu Tabeta. SAMPLING IN REFERENCE TO THE DIEL VERTICAL MIGRATION AND THE GEOMETRIC DISTRIBUTION OF FISHES. *Gakkaishi* 54(6):941-946. 1988. In English. FR 33(4)  
[Ocean Res. Inst., Univ. Tokyo, Minamidai, Nakano, Tokyo Japanica]

88-004991 Karasuno, Keiichi; Syunji Jyanuma and Kunisaburo Yonemitsu. STUDIES ON HYDRODYNAMIC FORCES AND MOMENT FOR MANEUVERING OF FISHING VESSELS (4) ON MATHEMATICAL MODEL OF SHIP HYDRODYNAMIC MOMENT WHILE DRIFTING. *Bull. Fac. Fish. Hokkaido Univ.* 31(1):1-10. 1988. Japanese with English summ. FR 33(4)  
[Div. Fish. Boat Eng., Fac. Fish., Hokkaido Univ., Minato-cho, Hakodate, Japan]

88-004992 Le Gagneur E., M. [THE "BRAZILIAN BARRIER" IN GUAYMAS BAY]. *Indian J. Fish.* 17. p. 31-36. 1987. In French. FR 33(4)

88-004993 Lion, Jon. PROBLEMS OF NEWFOUNDLAND FISHERMEN WITH SHARKS DURING 1987 AND A REVIEW OF INCIDENTAL ENTRAPMENT IN FISHING GEAR DURING THE PAST DECADE. *Osprey* 19(1):30-38. 1988  
[Dep. Psychol. & Newfoundland Inst. Cold Ocean Sci., Memorial Univ. St. John's, NF, Canada]

88-004994 Lin, Jiun-chen; Osamu Sato; Katsuaki Nashimoto and Masahiko Nakamura. [HYDRODYNAMIC CHARACTERISTICS OF LIFT AND DRAG OF SAUCER BOARDS FOR DIFFERENT CAMBERS.] *Nippon Suisan Gakkaishi* 54(1):1-6. 1988. Japanese with English summ. FR 33(4)  
[Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

88-004995 Maitipe, Parakum and Sena S. De Silva. THE STRUCTURE OF THE KRAAL, A FISHING GEAR, IN A SRI LANKAN LAGOON. *Indian J. Fish.* 1986. FR 33(4)  
["Pasadika", Maitipe, Galle, Sri Lanka]

88-004996 McEachron, Lawrence W.; Jeff F. Doerzbacher; Gary C. Green and Gary E. Saul. REDUCING THE BYCATCH IN A COASTAL FISHERY. *U.S. Natl. Mar. Fish. Serv. Fish. Bull.* 86(1):109-117. 1988  
[Parks & Wildl. Dep., P.O. Box 1717, Rockport, TX 78382] *Sciaenops ocellatus*, and *Pogonius cromis*.

88-004997 Minns, Charles K. and Donal A. Hurley. EFFECTS OF MESH SIZE ON FISH CATCHES BY GILL NETS IN THE FISHING

004997 CONTINUED

Fish. & Oceans, Great Lakes Lab. Fish. & Aquat. Sci., 867 Lakeshore Rd., P.O. Box 117, Burlington, ON, Canada L7R 4A6] *Stizostedion vitreum*, *Morone americana*, *Catostomus commersoni*, *Catostomus commersoni*, and *Perca flavescens* in Lake Ontario.

004998 Scarsbrook, J. R.; G. A. McFarlane and W. Shaw. EFFECTIVENESS OF EXPERIMENTAL ESCAPE MECHANISMS IN SABLEFISH TRAPS. *N. Am. J. Fish. Mgmt.* 8(3):158-161. 1988. FR 33(4)

Dep. Fish. & Oceans, Fish. Res. Branch, Pac. Biol. Stn., Nanaimo, BC, Canada] *Anoplopoma fimbria*.

004999 Tweddle, D. and P. Bodington. A COMPARISON OF THE EFFECTIVENESS OF BLACK AND WHITE GILLNETS IN LAKE MALAWI, AFRICA. *Fish. Res.* 6(3):257-269. 1987. FR 33(4)

P.O. Box 27, Monkey Bay, Malawi] *Oreochromis spp.*, *Bagrus meridionalis*, and *Lates niloticus*.

#### FISHWAYS, FISH PASSAGE THROUGH DAMS, ETC.

005000 Goller, James and Edward Sheets. THE COLUMBIA BASIN FISH AND WILDLIFE PROGRAM: A DEBT TO THE PAST, AN INVESTMENT IN THE FUTURE. *Trans. Am. Fish. Soc.* 116:288-298. 1987. FR 33(4)

Northwest Power Planning Council, Boise, ID]

005001 Millatto, A. J. WILDER FISH LADDER WITH A HYDROTURBINE AS A WATER ATTRACTING WATER SYSTEM. *Am. Fish. Soc. Symp.* 1:551. 1987. Abstract only. FR 33(4)

New England Power Co., 25 Research Dr., Westborough, MA 01581]

005002 Orsborn, John F. FISHWAYS--HISTORICAL ASSESSMENT OF DESIGN AND CONSTRUCTION PRACTICES. *Am. Fish. Soc. Symp.* 1:122-130. 1987. FR 33(4)

Albrook Hydraulics Lab., Dep. Civil & Environ. Eng., State Univ., Pullman, WA]

005003 Reading, Harvey H. PASSAGE OF JUVENILE CHINOOK SALMON (*Oncorhynchus tshawytscha*) AND AMERICAN SHAD, *Alosa sapidissima*, THROUGH VARIOUS TRASHRACK BAR SPACINGS. *Interagency Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep.* 5. 10p. 1982. FR 33(4)

Bay-Delta Fish. Project, 4001 N. Wilson Way, Stockton, CA 95205]

#### POPULATION DYNAMICS, STATISTICAL METHODS, AND MODELING

005004 Anderson, Lee G. AN ECONOMIC ANALYSIS OF JOINT RECREATION AND COMMERCIAL FISHERIES. In: *Allocation of Fishery Resources*. John H. Grover, ed. *Mar. Resour. Econ.* 26. 1980. In English with French summ. FR 33(4)

[Coll. Mar. Studies, Univ. Del., Newark 1971]

005005 Arditi, Roger and Bernard Dacorogna. OPTIMAL FORAGING IN NONPREDATOR HABITATS. 2. UNBOUNDED ONE-DIMENSIONAL HABITAT. *SIAM J. Appl. Math.* 47(1):1-12. 1987. From: *Deep-Sea Res. Part B Oceanogr. Lit. Rev.* 35(5):467-468. 1988. FR 33(4)

[Inst. Zool. & Ecol. Anim., Univ. Lausanne, CH-1015 Lucerne, Switzerland]

88-005006 Barber, Willard E. MAXIMUM SUSTAINABLE YIELD LIVES ON  
Manage. 8(2):153-157. 1988. FR 33(4)

[School Fish. & Ocean Sci., Univ. Alaska, Fairbanks 99775]

88-005007 Barnthouse, Lawrence W.; Glenn W. Suter II and Ste  
QUANTIFYING RISKS OF TOXIC CHEMICALS TO AQUATIC POP  
ECOSYSTEMS. *Chemosphere* 17(8):1487-1492. 1988. FR 33(4)

[Environ. Sci. Div., Oak Ridge Natl. Lab., Oak Ridge, TN 37830]

88-005008 Bjørndal, Trond. THE OPTIMAL MANAGEMENT OF NORTH S  
*Environ. Econ. Manage.* 15(1):9-29. 1988. FR 33(4)

[Inst. Fish. Econ., Norwegian School Econ. & Business Admin., Helli  
Bergen, Norway]

88-005009 Bjornn, T. C. A LIFE HISTORY MODEL FOR PREDICTING  
AND YIELD OF ANADROMOUS SALMONIDS. *Idaho Coop. Fish Wildl. Res.*  
87(2):41p. 1987. FR 33(4)

[Coop. Fish & Wildl. Res. Unit, Univ. Idaho, Moscow 83843]  
*Oncorhynchus kistutch*, and *O. tshawytscha*.

88-005010 Bocking, Robert C. and Randall M. Peterman. PRESEASON  
SOCKEYE SALMON (*ONCORHYNCHUS NERKA*): COMPARISON OF METHOD  
CONSIDERATIONS. *Can. J. Fish. Aquat. Sci.* 45(8):1346-1354. 1988.  
French summ. FR 33(4)

[LGL Ltd., Environ. Res. Assoc., 9768 Second St., Sidney, BC, Canada]

88-005011 Christensen, Sigurd W.; James E. Breck and W. Van Win  
ACIDIFICATION EFFECTS ON FISH POPULATIONS, USING LABORATORY  
INFORMATION. *Environ. Toxicol. Chem.* 7(9):735-747. 1988. FR 33(4)

[Environ. Sci. Div. Oak Ridge Natl. Lab., P.O. Box 2008, Oak Ridge, TN]

88-005012 Cochran, P. A. and K. J. Knutsen. ERROR IN ESTIMAT  
RATES FROM CHANGES IN MEAN BODY MASS. *Can. J. Fish. Aquat. Sci.*  
1988. In English with French summ. FR 33(4)

[Div. Nat. Sci., St. Norbert Coll., De Pere, WI 54115] *Micropterus salm*

88-005013 Conrad, Jon M. and Richard Adu-Asamoah. SINGLE AN  
SYSTEMS: THE CASE OF TUNA IN THE EASTERN TROPICAL ATLANTIC.  
*Manage.* 13(1):50-68. 1986. FR 33(4)

[Dep. Econ., Univ. British Columbia, 997-1873 E. Mall, Vancouver, BC]  
*Thunnus obesus*, *T. albacares*, and *Euthynnus pelamis*.

88-005014 Couto, Vitor De Athayde. [SOME QUESTIONS ON THE DEVE  
WORLD FISHERY ECONOMICS.] *Invest. Pesq.* 51(Suppl. 2):65-72. 1987.  
English summ. FR 33(4)

[Fac. Cienc., Univ. Fed. Bahia, 40000 Salvador, Bahia, Brazil]

88-005015 Crance, J. H. HABITAT SUITABILITY INDEX CURVES F  
FISHES. *Am. Fish. Soc. Symp.* 1:551. 1987. Abstract only. FR 33(4)

[Div. Biol. Serv., U.S. Fish & Wildl. Serv., 2627 Redwing Rd., Fort  
*Morone saxatilis*, *Alosa sapidissima*, *Acipenser oxyrinchus*, and *A. brev*

- 005016 Cropper, M. L. A NOTE ON THE EXTINCTION OF RENEWABLE RESOURCES.  
*Iron. Econ. Manage.* 15(1):64-70. 1988. FR 33(4)  
 Dep. Econ. & Bus. Business & Econ. Res., Univ. Md., College Park 20742]
- 005017 Deriso, Richard B. and Ana M. Parma. DYNAMICS OF AGE AND SIZE IN A STOCHASTIC POPULATION MODEL. *Can. J. Fish. Aquat. Sci.* 45(6):1054-1068. 1988. English with French summ. FR 33(4)  
 Int. Pac. Halibut Comm., P.O. Box 95009, Seattle, WA 98145]
- 005018 Devillers, J.; D. Zakarya and M. Chastrette. A PREDICTIVE CORRELATION FOR THE ACUTE TOXICITY OF ORGANIC POLLUTANTS TO *PIMEPHALES PROMELAS*. *Atmosphere* 17(8):1531-1537. 1988. FR 33(4)  
 Inst. Pasteur Lyon, 77 rue Pasteur, 69365 Lyon cedex 07, France]
- 005019 Diana, James S.; Steven L. Kohlar and David R. Ottoy. A YIELD MODEL FOR LINKING CATFISH PRODUCTION IN AQUACULTURE SYSTEMS. *Aquaculture* 71(1/2):1-8. FR 33(4)  
 School Nat. Resour. & Great Lakes Res. Div., Univ. Mich., Ann Arbor 48109  
*Ambloplites batrachus* and *C. lazera*.
- 005020 Doherty, Peter J. and David McB. Williams. THE REPLENISHMENT OF COASTAL FISH POPULATIONS. *Oceanogr. Mar. Biol. Annu. Rev.* 26:487-551. 1988. FR 33(4)  
 School Australian Environ. Studies, Griffith Univ., Nathan, Qld. 4111, Australia]
- 005021 Fontaine, Thomas D.; G. A. Lang and D. Scavia. COMBINED ECOSYSTEM CONTAMINANT FATE AND EFFECTS MODELS FOR THE GREAT LAKES: EXPLORING THE CONSEQUENCES OF MULTIPLE OBJECTIVE MANAGEMENT. *Int. Assoc. Great Lakes Res. Conf.* 30:A-20. 1987. Abstract only. FR 33(4)  
 Great Lakes Environ. Res. Lab., 2205 Commonwealth Blvd., Ann Arbor, MI 48105]
- 005022 Francis, R. I. C. C. ARE GROWTH PARAMETERS ESTIMATED FROM TAG AND AGE-LENGTH DATA COMPARABLE? *Can. J. Fish. Aquat. Sci.* 45(6):936-942. 1988. English with French summ. FR 33(4)  
 Fish. Res. Div., Minist. Agric. & Fish., P.O. Box 297, Wellington, New Zealand]
- 005023 Franquesa, Ramon. [ECONOMIC ANALYSIS OF A COASTAL FISHERY.] *Apuntes Econ. Soc.* 51(Suppl. 2):37-53. 1987. In Spanish with English summ. FR 33(4)  
 Dep. Teoria Econ., Fac. Cienc. Econ. & Empresariales, Univ. Cent. Bar. Barcelona, Spain]
- 005024 Frie, Richard Victor. SIMULATION OF THE WALLEYE POPULATION IN A FISHERY OF LAKE OF THE WOODS, MINNESOTA. *Ph.D. dissertation, Univ. Minn.* 1987. From Abstr. *Int. B Sci. Eng.* 49(3):620-621. 1988. FR 33(4)  
*Stizostedion vitreum*.
- 005025 Fuwa, Shigeru; Osamu Sato; Katsuaki Nashimoto and Nobio Higo. A GROWTH MODEL BY GROUND ROPE. *Nippon Suisan Gakkaishi* 54(7):1155-1159. 1988. Japanese with English summ. FR 33(4)  
 Fac. Fish., Kagoshima Univ., Kagoshima 890, Japan]

- 8-005026 Gallastegui, M. Carmen. [THEORETICAL AND EMPIRICAL CONSIDERATIONS ON THE ANALYSIS OF FISHERIES.] *Invest. Pesq.* 51(Suppl. 2):21-35. 1987. In Spanish with English summ. FR 33(4)  
[Dep. Teoria Econ., Fac. Cienc. Econ. & Empresariales, Univ. Pais Vasco, Spain]
- 8-005027 Gee, A. S. and R. W. Edwards. RECREATIONAL EXPLOITATION OF ATLANTIC SALMON IN THE RIVER WYE. In: *Allocation of Fishery Resources*. Grover, editor, p. 129-137. 1980. In English with French summ. FR 33(4)  
[Dep. Appl. Biol., UWIST, Cardiff CF1 3NU, Wales] *Salmo salar* in Wales.
- 8-005028 Gonzalez Laxe, Fernando. [THE ECONOMICS OF FISHERIES MANAGEMENT.] *Invest. Pesq.* 51(Suppl. 2):243-252. 1987. In Spanish with English summ. FR 33(4)  
[Secretaria Gen. Pesca Maritima, Jose Ortega & Gasset, 57.28006 Madrid, Spain]
- 8-005029 Goulter, Ian C. and Reinhold Castensson. MULTI-OBJECTIVE ANALYSIS OF FISHING AND FISHLIFE INTERESTS IN LAKE SOMMEN, SWEDEN. *Int. J. Water Resour. Dev.* 4(3):191-199. 1988. FR 33(4)  
[Dep. Civil Eng., Univ. Manitoba, Winnipeg, MB, Canada R3T 2N2]
- 8-005030 Graham, John H. and Robert C. Vrijenhoek. DETRENDED CORRESPONDENCE ANALYSIS OF DIETARY DATA. *Trans. Am. Fish. Soc.* 117(1):29-36. 1988. FR 33(4)  
[Dep. Biol. Sci., Wayne State Univ., Detroit, MI 48202] *Enneacanthus obscurus* and *Porlosus*.
- 8-005031 Hale, S. S. TIME-SERIES ANALYSIS OF DISCHARGE, TURBIDITY AND JUVENILE SALMON OUTMIGRATION IN THE SUSITNA RIVER, ALASKA. *Am. Fish. Soc. Symp.* 1:554. 1987. Abstract only. FR 33(4)  
[Dep. Fish & Game, Susitna River Aquatic Studies Program, Anchorage, Alaska] *Oncorhynchus nerka* and *O. tshawytscha*.
- 8-005032 Jensen, A. L.; R. H. Reider and W. P. Kovalak. ESTIMATION OF PRODUCTION OF FRESHWATER FISH. *N. Am. J. Fish. Manage.* 8(2):191-198. 1988. FR 33(4)  
[School Nat. Resour., Univ. Mich., Ann Arbor 48109] *Dorosoma cepedianum* in Lake Michigan.
- 8-005033 Kerr, S. R. and R. A. Ryder. THE APPLICABILITY OF FISH YIELD INDEXES TO FRESHWATER AND MARINE ECOSYSTEMS. *Limnol. Oceanogr.* 33(4, Part 2):973-984. 1988. FR 33(4)  
[Fish. & Oceans, Mar. Ecol. Lab., Bedford Inst. Oceanogr., Dartmouth, NS, Canada B2Y 4A2]
- 8-005034 Keup, Lowell E. INVERTEBRATE FISH FOOD RESOURCES OF FRESHWATER ENVIRONMENTS. INSTREAM FLOW INFORMATION PAPER NO. 24. *U.S. Fish Wildl. Biol. Rep.* 88(13):96p. 1988. Available from U.S. Fish & Wildl. Serv. Publ. Unit, Wash. Bldg., Rm 148, Washington, DC 20240. FR 33(4)  
[U.S. Environ. Prot. Agency, Washington, DC 20460]

- 005035 Kimura, Daniel K. ANALYZING RELATIVE ABUNDANCE INDICES WITH NEAR MODELS. *N. Am. J. Fish. Manage.* 8(2):175-180. 1988. FR 33(4)  
NMFS, Northwest & Alaska Fish. Cont., Bldg. -I, BIN C15700, 7600 Sand Point Way  
Seattle, WA 98115]
- 005036 Klein, W.; A. W. Klein and A. W. Lange, editors. ADVANCED ENVIRONMENTAL HAZARD AND RISK ASSESSMENT 1987. PROCEEDINGS OF AN INTERNATIONAL WORKSHOP HELD AT SCHMALLEMBERG-GRAFSCHAFT, G.F.R. 1-10 SEPTEMBER 1987. *Chemosphere* 17(8):1381-1641. 1988. FR 33(4)  
Umweltbundesamt, Bismarckplatz 1, D-1000 Berlin 33, West Germany] Selected and indexed in this issue of *Fisheries Review*.
- 005037 Lastado, Rafael. [MARKETING IN THE FISHERY INDUSTRY.] *Invest. Suppl.* 2):99-112. 1987. In Spanish with English summ. FR 33(4)  
Dir. Gen. Pesca Maritima, Dep. Agric., Ramaderia Pesca, Urgel, 187.08036 Barcelona]
- 005038 Layher, William G. and O. Eugene Maughan. RELATIONS BETWEEN QUARTER SPECIES AND THEIR RESPECTIVE ABIOTIC ENVIRONMENTS. *Proc. Okla. Game & Fish. Comm.* 67:11-22. 1987. FR 33(4)  
Environ. Serv. Sect., Fish & Game Comm., R.R. 2, Box 51A, Pratt, KS 67404  
*Leostoma spectabile* and *Perclina phoxocephala* in Kansas and Oklahoma.
- 005039 Layher, William G. and O. Eugene Maughan. USING STREAM SURVEY DATA TO PREDICT DIRECTIONAL CHANGE IN FISH POPULATIONS FOLLOWING PHYSICOCHEMICAL STREAM PERTURBATIONS. *Environ. Toxicol. Chem.* 7(9):389-399. 1988. FR 33(4)  
Environ. Serv. Sect. Dep. Wildl. & Parks, Box 54A, R.R. #2, Pratt, KS 67124]
- 005040 Loomis, David K. and Robert B. Ditton. TECHNIQUE FOR PROJECTING FUTURE GROWTH AND DISTRIBUTION OF MARINE RECREATIONAL FISHING DEMAND. *N. Am. J. Fish. Manage.* 8(2):259-263. 1988. FR 33(4)  
Dep. Physical Educ. & Leisure Studies, Iowa State Univ., Ames 50011]
- 005041 Masip Cosin, Jose. [VIGILANCE IS AN INVESTMENT. A CASE STUDY.] *Invest. Suppl.* 2):55-64. 1987. In Spanish with English summ. FR 33(4)  
Comite Tecnico Pesca Mediterraneo, Puerto Pesquero, 12 Castellon de la Plana, Spain]
- 005042 Masip Segarra, Jose Manuel. [A MODEL OF A DEMOCRATIC REARRANGING OF THE STANDING COMMITTEE OF THE SPANISH MEDITERRANEAN.] *Invest. Suppl.* 2):169-178. 1987. In Spanish with English summ. FR 33(4)  
Avda. Puerto, 300.46024 Valencia, Spain]
- 005043 Miller, Jon R. and J. John Charbonneau. THE U.S. NATIONAL SURVEY OF FISHING, HUNTING AND WILDLIFE ASSOCIATED RECREATION: A DESIGN FOR POLICY ANALYSIS. In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 286-288  
English with French summ. FR 33(4)  
Dep. Econ., Univ. Utah, Salt Lake City 84112]
- 005044 Mohan, M. V. and T. M. Sankaran. TWO NEW INDICES FOR STOCK ASSESSMENT ANALYSIS OF FISHERIES. *J. Fish. Res. Board Can.* 45(12):2209-2222. 1988. FR 33(4)



85-005045 Morey, Edward R. A GENERALIZED HARVEST FUNCTION FOR FISH STOCKS WITH APPLICATIONS TO ALLOCATING EFFORT AMONG COMMON PROPERTY COD STOCKS (A GENERALIZED HARVEST FUNCTION). *J. Environ. Econ. Manage.* 13(1):30-49. 1986. FR 33(1)  
[Dep. Econ., Univ. Colo., Boulder 80309] *Gadus morhua*.

89-005046 Nemeč, A. F. L. and R. O. Brinkhurst. THE FOWLKES-MALLOWS STOCK ESTIMATION METHOD AND THE COMPARISON OF TWO INDEPENDENTLY DETERMINED DENDROGRAMS. *Fish. Aquat. Sci.* 45(6):971-975. 1988. In English with French summ. FR 33(1)  
[Int. Stat. & Res. Corp., P.O. Box 496, Brentwood Bay, BC, Canada V0S 1A0]

88-005047 Nemeč, A. F. L. and R. O. Brinkhurst. USING THE BOOTSTRAP TO TEST FOR STATISTICAL SIGNIFICANCE IN THE CLUSTER ANALYSIS OF SPECIES ABUNDANCE DATA. *Can. J. Fish. Aquat. Sci.* 45(6):965-970. 1988. In English with French summ. FR 33(4)  
[Int. Stat. & Res. Corp., P.O. Box 496, Brentwood Bay, BC, Canada V0S 1A0]

88-005048 Ntiba, M. J. and V. Jaccarini. AGE AND GROWTH PARAMETERS OF *SILURUS LUTEDI* IN KENYAN MARINE INSHORE WATER, DERIVED FROM NUMBERS OF COTRANSECTIONS MICROBANDS AND FISH LENGTHS. *J. Fish. Biol.* 33(3):465-470. 1988. FR 33(4)  
[School Biol. Sci., Univ. E. Anglia, Norwich, England]

88-005049 O'Brien, Loretta and Ralph K. Mayo. SOURCES OF VARIATION IN CATCH PER UNIT EFFORT OF YELLOWTAIL FLOUNDER, *LIMANDA FERRUGINEA* (SAY) HARVESTED OFF THE COAST OF NEW ENGLAND. *U.S. Natl. Mar. Fish. Serv. Fish. Bull.* 86(1):91-108. 1988. FR 33(4)  
[Northeast Fish. Cent., NMFS, NOAA, Woods Hole, MA 02543]

88-005050 Pajak, Paul and Richard J. Neves. HABITAT SUITABILITY AND FISH PRODUCTION: A MODEL EVALUATION FOR ROCK BASS IN TWO VIRGINIA STREAMS. *Trans. Am. Fish. Soc.* 116(6):839-850. 1987. FR 33(4)  
[Dep. Nat. Resour., Southeast Dist. Headquarters, P.O. Box 12436, Milwaukee, WI 53212] *Ambloplites rupestris*.

88-005051 Parkinson, Eric A; Jonathan Berkowitz and Christopher J. Bull. SAMPLE SIZE REQUIREMENTS FOR DETECTING CHANGES IN SOME FISHERIES STATISTICS FROM TROUT LAKES. *N. Am. J. Fish. Manage.* 8(2):181-190. 1988. FR 33(4)  
[British Columbia Fish. Branch, 2204 Main Mall, Univ. British Columbia, Vancouver, Canada V6T 1W5]

88-005052 Pelletier, Jacques. [ANALOG DIGITAL SIMULATION MODEL FOR ANALYZING DEMAND ON FISH RESOURCES FOR RECREATION IN A NON-COMPETITIVE CONTEXT]. *Allocation of Fishery Resources. John H. Grover, editor.* p. 293-297. 1980. In French with English summ. FR 33(4)  
[Minist. Loisir, Chasse & Pêche, Direction Planification, 150 Boul. St. Cyrille, Québec, Canada]

88-005053 Pertierra, Juan Pablo and Arturo Castellón. [ACOUSTIC EVALUATION OF STOCKS OF *SARDINA PILCHARDUS* (WALBAUM, 1792) AND *ENGRAULIS ENCRASICOLUS* (LINNAEUS, 1758) IN THE MERIDIONAL HALF OF THE CATALAN COAST.] *Invest. Pesq.* 51(4):411-420. 1987. In Spanish with English summ. FR 33(4)  
[Inst. Cienc. del Mar, Paseo Mar. s/n, 08002 Barcelona, Spain]

005054 Phillippart, J. C. [INTRODUCTION TO THE EVALUATION OF ECOLOGIC  
CIO-ECONOMIC ASPECTS OF SPORT FISHING IN THE OURTHE (MEUSE) BAS  
GIUV.] In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 298-307.  
French with English summ. FR 33(4)  
Inst. Zool. Univ. Liege, Serv. Ethol. Anm.-Aquarium, Unite Res. Piscicoles, 22  
Beneden, B-4020, Liege, Belgium]

005055 Polgar, T. T.; M. A. Turner and J. K. Summers. EFFECT OF POWER I  
TRAINMENT ON THE POPULATION DYNAMICS OF THE BAY ANCHOVY (AM  
CHILLI). *Ecol. Model.* 41(3/4):201-218. 1988. FR 33(4)  
Martin Marietta Environ. Syst., 9200 Runsey Rd., Columbia, MD 21045]

005056 Ruiz, Gumersindo; Antonio Narvaez and Juan Carlos Martinez  
RELATIONSHIP BETWEEN ECONOMICS AND ECOLOGY IN THE ANALYSIS OF FISHER  
est. *Pesq.* 51(Suppl. 2):179-192. 1987. In Spanish with English summ. FR 33(4)  
Fac. Cienc. Econ., Univ. Malaga, Malaga, Spain]

005057 Saenger, R. Alfred. SWIMBLADDER SIZE VARIABILITY IN MESOPELAGIC  
D BIOACOUSTIC MODELING. *J. Acoust. Soc. Am.* 84(3):1007-1017. 1988. FR 33(4)  
Surface Ship Sonar Dep., Naval Underwater Syst. Cent., New London Lab.  
London, CT 06320]

005058 Schuurmann, G. and W. Klein. ADVANCES IN BIOCONCENTR  
EDICATION. *Chemosphere* 17(8):1551-1574. 1988. FR 33(4)  
Fraunhofer-Inst. Umweltchem. & Okotoxikol., D-5948 Schmallenberg-Grafschaft,  
Germany]

005059 Squires, Dale. FISHING EFFORT: ITS TESTING, SPECIFICATION,  
INTERNAL STRUCTURE IN FISHERIES ECONOMICS AND MANAGEMENT. *J. Environ.  
age.* 14(3):263-282. 1987. FR 33(4)  
Natl. Mar. Fish. Serv., Southwest Fish. Cent., P.O. Box 271, La Jolla, CA 92038]

005060 Srinath, M. A SIMPLE METHOD OF ESTIMATION OF MORTALITY. *Ind  
n.* 33(2):235-237. 1986. FR 33(4)  
Cent. Mar. Fish. Res. Inst., Cochin, India]

005061 Stalnaker, Clair B. EFFECTS ON FISHERIES OF ABSTRACTIONS  
TURBATIONS IN STREAMFLOW. In: *Allocation of Fishery Resources*. John H. G  
or. p. 366-383. 1980. In English with French summ. FR 33(4)  
Coop. Instream Flow Serv. Group, U.S. Fish & Wildl. Serv., 2625 Redwing Rd.  
Ins, CO 80526]

005062 Steinmetz, B. MANAGEMENT OF FISH STOCKS IN THE NETHERLANDS AND  
ED FOR PLANNING. In: *Allocation of Fishery Resources*. John H. Grover, editor. p  
. 1980. In English with French summ. FR 33(4)  
Minist. Agric. & Fish., Dir. Fish., P.O. Box 20401, Bezuidenhoutsaweg 73, 25  
que, Netherlands]

005063 Stocker, M. and D. J. Noakes. EVALUATING FORECASTING PROCEDURES  
EDICTING PACIFIC HERRING (*CLUPEA HARENGUS PALLASI*) RECRUITMENT IN B

88-005063 CONTINUED English with French summ. FR 33(4)  
[Dep. Fish. & Oceans, Biol. Sci. Branch, Pac. Biol. Stn., Nanaimo,  
5K6]

88-005064 Stroud, R. H.; G. C. Radonski and R. G. Martin. EVOLVING  
BEST-USE ALLOCATIONS OF FISHERY RESOURCES. In: *Allocation of  
John H. Grover, editor.* p. 418-431. 1980. In English with French summ.  
[Sport Fish. Inst., 608 13th St. N.W., Suite 801, Washington, DC 20005]

88-005065 Vacek, J.; F. Kubu and A. Kratochvil. FORMATION AND USE  
STANDARDS IN FISH CULTURE. *Pr. Vodnany* No. 16. p. 77-83. 1987.  
Czech summ. FR 33(4)  
[Vyzkumny ustav ekon. zemedelstvi & vyzivy, Manesova 75,  
Czechoslovakia]

88-005066 van Alderwegen, Hendrik A. APPLICATION OF RESULTS OF  
ATTENDANCE RESEARCH IN REGIONAL SUPPLY AND DEMAND ANALYSIS  
*Fishery Resources. John H. Grover, editor.* p. 452-460. 1980. In English  
FR 33(4)  
[Inst. Land & Water Manage. Res., Wageningen, Netherlands]

88-005067 Van Leeuwen, J. L. and C. W. Spoor. BITING FORCE  
DISCUSSION OF THE PLANAR MODEL OF BAREL (1983). *Neth. J. Zool.*  
1987. FR 33(4)  
[Res. Group Human-Joint Biomech., Dep. Anat., Univ. Leiden, P.O.  
Leiden, Netherlands]

88-005068 Vetter, E. F. ESTIMATION OF NATURAL MORTALITY IN  
REVIEW. *U.S. Natl. Mar. Fish. Serv. Fish. Bull.* 86(1):25-43. 1988. FR 33(4)  
[Southwest Fish. Cent., NMFS, NOAA, P.O. Box 271, La Jolla, CA 92037]

88-005069 Wang, Cheng-Hai; Osamu Sato; Katsuaki Nashimoto and Katsuhiko  
SIMILARITY OF EDDY AREA BEHIND SIMPLIFIED COMPONENTS IN  
STRUCTURE. *Bull. Fac. Fish. Hokkaido Univ.* 39(2):96-105. 1988. In English  
[Lab. Fishing Gear Eng., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

88-005070 Wang, Chien-Hsiung and Syoiti Tanaka. [DEVELOPMENT OF  
ANALYSIS METHOD AND ITS APPLICATION TO THE INDIAN OCEAN  
LENGTH COMPOSITION.] *Bull. Far Seas Fish. Res. Lab.* No. 25. p. 1-72  
with English summ. FR 33(4)  
*Thunnus albacores.*

88-005071 Weber, Jacques. [ECONOMIC THEORY AND FISHERY  
PROPOSALS FOR RESEARCH.] *Invest. Pesq.* 51(Suppl. 2):73-80. 1987.  
Spanish and English summ. FR 33(4)  
[IFREMER, B.P. 1049, 44037 Nantes, France]

88-005072 Zaferman, M. L. and L. I. Serebrov. A GEOMETRIC  
DISTRIBUTION OF FISH IN A SCHOOL. *J. Ichthyol. (Engl. Transl.)*  
27(6):145-148. 1987. FR 33(4)  
[Polar Sci.-Res. Inst. Mar. Fish. & Oceanogr. -- PINRO, Murmansk, U.S.S.R.]

89-005073 Zhang, Chang Ik and Patrick J. Sullivan. BIOMASS-BASED COHORT ANALYSIS THAT INCORPORATES GROWTH. *Trans. Am. Fish. Soc.* 117(2):180-189. 1988. FR 33(4)  
[NMFS, Northwest & Alaska Fish. Cent., 7600 Sand Point Way N.E., Seattle, WA 98147] *Pleuronectes quadrituberculatus*, *Theragra chalcogramma*, and *Limanda aspera*.

88-005074 Zuboy, James R. THE DELPHI TECHNIQUE: A POTENTIAL METHODOLOGY FOR EVALUATING RECREATIONAL FISHERIES. In: *Allocation of Fishery Resources*. Ed. by Grover, editor. p. 519-530. 1980. In English with French summ. FR 33(4)  
[Dep. Commerce, Southeast Fish. Cent., 75 Virginia Beach Dr., Miami, FL 33149]

#### LAKE MANAGEMENT AND RESEARCH

88-005075 Brown, Charles L. and T. A. Edsall. SUBSTRATE COMPOSITION AND DISTRIBUTION ON HISTORICALLY IMPORTANT LAKE TROUT SPAWNING REEF. *Int. Assoc. Great Lakes Res. Conf.* 30:A-9. 1987. Abstract only. FR 33(4)  
[U.S. Fish & Wildl. Serv., 1451 Green Rd., Ann Arbor, MI 48105] *Salvelinus namaycush*

88-005076 Campos, Jorge A. [FISHERY OF "GUAPOTE" (*CHICHLASOMA DOVII*) IN THE GUAPOTE RIVER, COSTA RICA.] *Rev. Biol. Trop.* 34(2):215-219. 1986. In Spanish with English summ. FR 33(4)  
[Cent. Invest. Cienc. Mar. & Limnol. (CIMAR) & Escuela Biol., Univ. Costa Rica, San José, Costa Rica]

88-005077 Christie, W. Jack and George R. Spangler. OVERVIEW OF SYMPOSIUM ON THE GREAT LAKES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-11. 1987. Abstract only. FR 33(4)  
[Ontario Minist. Nat. Resour., R.R. #4, Picton, ON, Canada K0K 2T0]

88-005078 Collins, John J. CHANGES IN THE NORTH CHANNEL FISH COMMUNITY WITH EMPHASIS ON PINK SALMON (*ONCORHYNCHUS CORBUSCHA* WALBAUM). *Hydrobiologia* 163:195-213. 1988. FR 33(4)  
[Lake Huron Fish. Res. Unit, Ontario Minist. Nat. Resour., R.R. 1, Tahquamenon Falls, Canada P0P 2C0]

88-005079 Eshenroder, Randy L. PROSPECTS FOR SEA LAMPREY CONTROL IN THE GREAT LAKES CONNECTING CHANNELS OF THE GREAT LAKES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-18. 1987. Abstract only. FR 33(4)  
[Great Lakes Fish. Comm., 1451 Green Rd., Ann Arbor, MI 48105] *Petromyzon marinus*

88-005080 Eshenroder, Randy L. COORDINATED MANAGEMENT OF THE LAKE HURON REHABILITATION PROGRAM IN THE GREAT LAKES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-18. 1987. Abstract only. FR 33(4)  
[Great Lakes Fish. Comm., 1451 Green Rd., Ann Arbor, MI 48105] *Salvelinus namaycush*

88-005081 Flint, R. Warren. LAKE ONTARIO FISHERIES: ARE THERE ANY SURPRISES? *Int. Assoc. Great Lakes Res. Conf.* 30:A-19. 1987. Abstract only. FR 33(4)  
[Res. Cent., SUNY Coll., Oswego, NY 13126]

- 88-005082 Foster, N. R.; R. M. Horrall and M. E. Holey. HELPING LAKE TROUT FIND THEIR WAY HOME: EXPERIMENTS WITH NATURAL AND UNNATURAL CHEMICAL CUES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-20. 1987. Abstract only. FR 33(4)  
[U.S. Fish & Wildl. Serv., Natl. Fish. Cent.-Great Lakes, 1451 Green Rd., Ann Arbor, MI 48105] *Salvelinus namaycush*.
- 88-005083 Giles, Nick; Mike Street and Rosalind Wright. POTENTIAL COMPETITION BETWEEN FISH AND DUCKLINGS ON GRAVEL PIT LAKES. *Conserv. Biol.* p. 135-138. 1987. FR 33(4)
- 88-005084 Henderson, Bryan A and N. Robert Payne. CHANGES IN THE GEORGIAN BAY FISH COMMUNITY, WITH SPECIAL REFERENCE TO LAKE TROUT (*SALVELINUS NAMAYCUSH*) REHABILITATION. *Hydrobiologia* 163:179-194. 1988. FR 33(4)  
[Ontario Minist. Nat. Resour., Lake Huron Res. Stn., R.R. 1, Telkumamah, ON, Canada P0P 2C0] *S. namaycush*, *Coregonus* spp., *C. clupeiformis*, *C. artedii*, *Petromyzon marinus*, *Alosa pseudoharengus*, *Osmerus mordax*, and *Oncorhynchus* spp.
- 88-005085 International Association for Great Lakes Research. INTERNATIONAL ASSOCIATION FOR GREAT LAKES RESEARCH 30th CONFERENCE: PROGRAM ABSTRACTS. *Univ. Mich. (Ann Arbor)* 64p. 1987. FR 33(4)  
[2200 Bonisteel Blvd., Univ. Mich., Ann Arbor 48109] Selected abstracts included in issue of *Fisheries Review*.
- 88-005086 Johnson, B. G. Herbert. A COMPARISON OF THE EFFECTIVENESS OF SALMON LAMPREY CONTROL IN GEORGIAN BAY AND THE NORTH CHANNEL OF LAKE MICHIGAN. *Hydrobiologia* 163:215-222. 1988. FR 33(4)  
[Dep. Fish. & Oceans, Sea Lamprey Control Cent., Canal Dr., Ship Canal P.O. Box 100, Ste. Marie, ON, Canada P6A 1P0] *Petromyzon marinus*.
- 88-005087 Kennedy, John. CURRENT CONCERNS OF LAKE MICHIGAN CHARTER FISHERMEN. *Int. Assoc. Great Lakes Res. Conf.* 30:A-33. 1987. Abstract only. FR 33(4)  
[Green Bay Metropolitan Sewerage Dist., P.O. Box 19015, Green Bay, WI 54307]
- 88-005088 Kitchell, J. F. PERSPECTIVES ON PREDATOR-PREY STUDIES IN THE GREAT LAKES. *Int. Assoc. Great Lakes Res. Conf.* 30:A-35. 1987. Abstract only. FR 33(4)  
[Cent. Limnol., Univ. Wis., Madison 53706]
- 88-005089 Koonce, J. F.; C. P. Schneider and W. Dentry. INTEGRATED MANAGEMENT OF SEA LAMPREY IN LAKE ONTARIO: SIMULATION ANALYSIS OF OPTIONS FOR LAKE REHABILITATION. *Int. Assoc. Great Lakes Res. Conf.* 30:A-35. 1987. Abstract only. FR 33(4)  
[Dep. Biol., Case Western Res. Univ., Cleveland, OH 44106] *Salvelinus namaycush*, *Petromyzon marinus*.
- 88-005090 Lichtkoppler, Frank R and Leroy J. Hushak. AN ECONOMIC ANALYSIS OF OHIO CHARTER FISHING FIRMS. *Int. Assoc. Great Lakes Res. Conf.* 30:A-35. 1987. Abstract only. FR 33(4)  
[Ohio State Univ., 99 E. Erie St., Painesville 44077]
- 88-005091 Loftus, Kenneth H. ASPY - SO WHAT! *Int. Assoc. Great Lakes Res. Conf.* 30:A-35. 1987. Abstract only. FR 33(4)

- 88-005092 Mansfield, Pamela J. and David J. Jude. CHARACTERIZATION OF HABITAT BEFORE STOCKING LAKE TROUT. *Int. Assoc. Great Lakes Res. Conf.* 1987. Abstract only. FR 33(4)  
 [Great Lakes Res. Div., Univ. Mich., Ann Arbor 48109] *Salvelinus namaycush*.
- 88-005093 Marsden, J. Ellen; Charles C. Krueger and Clifford P. Schneider. EVIDENCE OF NATURAL REPRODUCTION BY STOCKED LAKE TROUT IN LAKE ONTARIO. *J. Great Lakes Res.* 14(1):3-8. 1988. FR 33(4)  
 [Dep. Nat. Resour., Cornell Univ., Ithaca, NY 14853] *Salvelinus namaycush*.
- 88-005094 Matthews, W. J.; L. G. Hill; D. R. Edds; J. J. Hoover and T. G. Johnson. TROPHIC ECOLOGY OF STRIPED BASS, *MORONE SAXATILIS*, IN A FRESHWATER RESERVOIR (LAKE TEXOMA, U.S.A.). *J. Fish Biol.* 33(2):273-288. 1988. FR 33(4)  
 [Univ. Okla., Biol. Stn. & Dep. Zool., Kingston 73439] *Dorosoma* spp.
- 88-005095 McDonald, Michael E. and James H. Selgeby. FORAGE FISHES IN LAKE SUPERIOR: A COMMUNITY IN TRANSITION. *Int. Assoc. Great Lakes Res. Conf.* 30:A-13. 1987. Abstract only. FR 33(4)  
 [Nat. Resour. Res. Inst., Univ. Minn., Duluth 55811]
- 88-005096 Nelson, Wesley C. HIGH LAKE RESEARCH AND MANAGEMENT IN COLORADO. *Colo. Div. Wildl. Spec. Rep.* No. 64. 41p. 1988. Available at \$1.00 from: Resource Library, Colo. Div. Wildl., 317 W. Prospect, Fort Collins 80526. FR 33(4)
- 88-005097 Peck, James W. REPRODUCTION BY HATCHERY LAKE TROUT IN LAKE SUPERIOR AND MICHIGAN. *Int. Assoc. Great Lakes Res. Conf.* 30:A-48. 1987. Abstract only. FR 33(4)  
 [Marquette Fish. Stn., 488 Cherry Crook Rd., Marquette, MI 49855] *Salvelinus namaycush*.
- 88-005098 Quinn, Stephen P. EFFECTIVENESS OF RESTRICTED AREAS IN REDUCING INCIDENTAL CATCHES OF GAME FISH IN A GILL-NET FISHERY. *N. Am. J. Fish. Manage.* 8(2):224-230. 1988. FR 33(4)  
 [In-Fisherman, Inc., P.O. Box 999, Brainord, MN 56101]
- 88-005099 Sly, P. G. and M. Munawar. GREAT LAKE MANITOULIN: GEORGIAN BAY AND THE NORTH CHANNEL. *Hydrobiologia* 163:1-19. 1988. FR 33(4)  
 [Natl. Water Res. Inst., Environ. Canada, Canada Cent. Inland Waters, Burlington, ON, Canada L7R 4A6]
- 88-005100 Steinmetz, B. and D. Slothouwer. FISHERY EXPERIENCE WITH THE SALT LAKE GREVELINGEN AFTER ITS CLOSURE. In: *Allocation of Fishery Resources*. Ed. I. Grover, editor. p. 396-402. 1980. In English with French summ. FR 33(4)  
 [Minist. Agric. & Fish., Dir. Fish., P.O. Box 20401, Bezuidenhoutseweg 73, The Hague, Netherlands]
- 88-005101 Talhelm, D. R. THE INTERNATIONAL GREAT LAKES SPORT FISHERY. *Great Lakes Fish. Comm. Spec. Publ.* 88-4. 70p. 1988. FR 33(4)  
 [Dep. Park & Recreational Resour., Mich. State Univ., East Lansing 48824]

05102 Tallhelm, Daniel R. NEW APPROACHES TO USING SOCIAL SCIENCES IN FRESHWATER FISHERY MANAGEMENT. *Int. Assoc. Great Lakes Res. Conf.* 30:A-58. Abstract only. FR 33(4)  
Dep. Park & Recreation Resour., Mich. State Univ., East Lansing 48824]

05103 Tallhelm, Daniel R. and Richard C. Bishop. THE ULTIMATE GREAT LAKES INDICATOR: ECONOMIC VALUES AND IMPACTS. *Int. Assoc. Great Lakes Res. Conf.* 1987. Abstract only. FR 33(4)  
Dep. Park & Recreation Resour., Mich. State Univ., East Lansing 48824]

05104 van Ginkel, C. J. SPORT FISHING ON LAKE IJssel. In: *Allocation of Fisheries Resources*. John H. Grover, editor. p. 461-467. 1980. In English with French summary.  
Minist. Agric. & Fish., Dir. Fish., P.O. Box 20101, Bezuidenhoutseweg 73, 2500 CA, The Hague, Netherlands]

05105 Vaux, P.; W. Wurtsbaugh; H. Trevino; L. Marino; E. Bustamante; J. T. Richardson and R. Alfaro. ECOLOGY OF THE PELAGIC FISHES OF LAKE TITICACA, BOLIVIA. *Biotropica* 20(3):220-229. 1988. FR 33(4)  
Wurtsbaugh: Dep. Fish & Wildl. & Ecol. Cent., Utah State Univ., Logan 84322  
Trevino: *Stias Ispl, O. mulleri, and Basilichthys bonariensis.*

#### RIVER AND STREAM MANAGEMENT AND RESEARCH

05106 Adeboye, A. A. CHANGES IN THE STRUCTURAL AND FUNCTIONAL COMPONENTS OF THE FISH COMMUNITY OF A SEASONAL RIVER. *Arch. Hydrobiol.* 133:457-463. 1988. FR 33(4)  
Hydrobiol. & Fish. Unit, Dep. Zool., Univ. Ibadan, Ibadan, Nigeria]

05107 Austen, Douglas J. and Donald J. Orth. EVALUATION OF A 305-mm MINIMUM LENGTH LIMIT FOR SMALLMOUTH BASS IN THE NEW RIVER, VIRGINIA AND NORTH CAROLINA. *N. Am. J. Fish. Manage.* 8(2):231-239. 1988. FR 33(4)  
Nat. Hist. Surv., Nat. Resour. Bldg., 607 E. Peabody Dr., Champaign, IL 61820  
*Micropterus dolomieu*.

05108 Bjornn, T. C. SURVIVAL OF CHINOOK SALMON SMOLTS AS RELATED TO WATER QUALITY AT DAMS AND SMOLT QUALITY, 1987. *Idaho Coop. Fish Wildl. Res. Unit* 88(1):14p. 1988. FR 33(4)  
Coop. Fish & Wildl. Res. Unit, Univ. Idaho, Moscow 83843] *Oncorhynchus tshawytscha* Richardson.

05109 Brevin, D. J. and J. R. Martin. WATER QUALITY MANAGEMENT: A REGIONAL CASE STUDY - THE SEVERN-TRENT AREA. *Regul. Rivers Res. Manage.* 2(3):231-248. 1987. FR 33(4)  
Severn Trent Water Authority, Abelson House, Coventry Rd., Birmingham, England

05110 Buettner, Edwin W. ECOLOGY OF SELECTED STREAMS IN THE FRANKLIN SPRING RIVER OF NO RETURN WILDERNESS AREA. *M.S. Thesis, Univ. Idaho* 1987. FR 33(4)

89-005111 Castelnaud, G.; O. Clement; M. Trouvery and Ph. De Verdilhac. OF THE GIRONDE RIVER ESTUARY (FRANCE): ITS PECULIARITIES AND  
In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 34-36. 1987.  
English summ. FR 33(4)

[Div. Aménagement Littoraux & Aquacult., 50, Ave. Verdun, BP 3 Gazin  
France]

88-005112 Cowley, Paul K. POTENTIAL FOR INCREASING ABUNDANCE OF  
TROUT IN STREAMS BY STOCKING FRY AND REMOVAL OF BROOK TROUT  
Univ. Idaho 90p. 1987. FR 33(4)

*Salmo clarki* and *Salvelinus fontinalis*.

88-005113 Delucchi, Carla M. COMPARISON OF COMMUNITY STRUCTURE IN  
STREAMS WITH DIFFERENT TEMPORAL FLOW REGIMES. *Can. J. Zool.* 66(1):1-10.  
In English with French summ. FR 33(4)

[Dep. Entomol., Cornell Univ., Ithaca, NY 14853]

88-005114 Dolloff, C. Andrew. SEASONAL POPULATION CHARACTERISTICS AND  
HABITAT USE BY JUVENILE COHO SALMON IN A SMALL SOUTHEASTERN  
*Trans. Am. Fish. Soc.* 116(6):829-838. 1987. FR 33(4)

[U.S. For. Serv., Southeast. For. Exp. Stn., Dep. Fish. & Wildlife  
Blacksburg, VA 24061] *Oncorhynchus kisutch*.

89-005115 Feldman, Murray D. NATIONAL WILDLIFE FEDERATION v. WASHINGTON  
WASHINGTON STATE DEPARTMENT OF FISHERIES v. FERC: FEDERAL  
REGULATORY COMMISSION IGNORES NINTH CIRCUIT REBUKE OF  
PERMITTING. *Ecol. Law Q.* 15(2):319-360. 1988. FR 33(4)

88-005116 Figueiras, F. G. and F. X. Niell. [PHYTOPLANKTON COMPOSITION AND  
OF PONTEVEDRA (NW SPAIN).] *Invest. Pesq.* 51(3):371-409. 1987. In Spanish  
summ. FR 33(4)

[Inst. Invest. Mar., Peirao Bouzas, s/n. 36208-Vigo, Spain]

89-005117 Gardiner, John L. ENVIRONMENTALLY SOUND RIVER RESTORATION  
EXAMPLES FROM THE THAMES CATCHMENT. *Regul. Rivers Res. Manag.* 4(1):1-10.  
1988. FR 33(4)

[Thames Water Rivers Div., Reading, England]

88-005118 Gilon, Christiane. [EXPLORATIVE INQUIRY INTO SPECIES DIVERSITY IN  
BELGIUM.] In: *Allocation of Fishery Resources*. John H. Grover, editor. p. 1-10.  
In French with English summ. FR 33(4)

[Inst. Zool., Univ. Liege, Quai Van Benedon 22, 4020 Liege, Belgium]

88-005119 Gurtz, Martin E. and Cathy M. Tate. HYDROLOGIC INFLUENCE ON  
DECOMPOSITION IN A CHANNEL AND ADJACENT BANK OF A GALLERY  
*Am. Midl. Nat.* 120(1):11-21. 1988. FR 33(4)

[P.O. Box 2857, Raleigh, NC 27602]

89-005120 Harvey, Bret C. SUSCEPTIBILITY OF YOUNG-OF-THE-YEAR



SOUTHWESTERN CALIFORNIA AND EASTERN CALIFORNIA. *U.S. Geol. Surv. Bull.* 1989. Available from Books & Open-File Rep. Sect. U.S. Geol. Surv., Box 25425, Denver, CO 80225 FR 33(4)

*Salmo clarki henshawi*.

89-005123 Holland-Bartels, Leslie E. and Michael C. Duval. VARIATION IN THE GROWTH OF THE YEAR CHANNEL CATFISH IN A NAVIGATION CHANNEL OF THE MISSISSIPPI RIVER. *Trans. Am. Fish. Soc.* 117(2):202-208, 1988. FR 33(4). [U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cent., P.O. Box 81, Ictalurus punctatus.

89-005124 Houvenaghel, G. T. HUMAN IMPACT ON THE DIADROMY OF THE MEUSE RIVER BASIN: A HISTORICAL AND GEOGRAPHICAL ANALYSIS. *Symp. 1:559*, 1987. Abstract only. FR 33(4). [Univ. Libre Bruxelles, Brussels, Belgium] Data for 11 spp.

83-005125 Johnson, F. G. HYDROPOWER DEVELOPMENT ON THE GREAT OXFORD RIVER. *Regul. Rivers Res. Manage.* 2(3):277-292, 1988. FR 33(4). [North Scotland Hydro-Electric Board, Edinburgh, Scotland]

88-005126 Krueger, Charles C. and Bernie May. STOCKING AND NATURALIZED BROWN TROUT IN LAKE SUPERIOR TRIBUTARIES: A COMPARISON BASED ON ALLOZYME DATA. *Trans. Am. Fish. Soc.* 116(6):785-794, 1987. FR 33(4). [Dep. Nat. Resour., Coll. Agric. & Life Sci., Cornell Univ., Ithaca, NY]

83-005127 Krueger, Charles and Bernie May. GENETIC COMPARISON OF BROWN TROUT POPULATIONS AMONG LAKE SUPERIOR TRIBUTARIES BASED ON ALLOZYME DATA. *Trans. Am. Fish. Soc.* 116(6):785-794, 1987. FR 33(4). [Dep. Nat. Resour., Coll. Agric. & Life Sci., Cornell Univ., Ithaca, NY]

83-005128 Lagler, Karl F. INTEGRATING FISHERY RESOURCE MANAGEMENT AND WATER MANAGEMENT IN A TROPICAL RIVER BASIN. *Allocation of Fishery Resources*. John H. Crover, editor, p. 180-191. 1980. In French with English summ. FR 33(4). [School Nat. Resour., Univ. Mich., Ann Arbor 48109]

83-005129 Larinier, M. [MESOLOGICAL EFFECTS OF SEDIMENTATION ON THE DYNAMICS OF STREAM BEDS.] In: *Allocation of Fishery Resources*. John H. Crover, editor, p. 192-199. 1980. In French with English summ. FR 33(4). [CERIT-CTGREF, BP 26, 31320 Castanet Tolosan, France]

83-005130 Mann, R. H. K. FISH AND FISHERIES OF REGULATED RIVERS. *Regul. Rivers Res. Manage.* 2(3):411-424, 1988. FR 33(4). [F B A. East. Rivers Group, c/o I.T.E., Monks Wood Exp. Station, Huntingdon PE17 2LS, England]

83-005131 Mbumae, L. L. ENVIRONMENTAL MANAGEMENT OF RIVERS IN A DEVELOPING COUNTRY. *Regul. Rivers Res. Manage.* 2(4):553-557, 1988. FR 33(4).

88-005132 McDowell, William H. and Gene E. Likens. ORIGIN, COMPOSITION, OF DISSOLVED ORGANIC CARBON IN THE HUBBARD BROOK VALLEY. *Ecology* 58(3):177-195. 1988. FR 33(4)

[Res. Cent., King Hall, SUNY, Oswego, NY 13126]

88-005133 Meffe, Gary K. and Tim M. Berra. TEMPORAL CHARACTERISTIC ASSEMBLAGE STRUCTURE IN AN OHIO STREAM. *Copeia* 1988(3):684-691. 1988.

[Univ. Ga. Savannah River Ecol. Lab., Drawer F, Aiken, SC 29801]

88-005134 Odonweller, Dan B. and Randall L. Brown. DELTA FISH FACILITIES REPORT THROUGH JUNE 30, 1982. *Interagency Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep.* 6. 90p. 1982. FR 33(4)

[Fish. Fac. Tech. Coordinating Comm., Dep. Fish & Game, 4001 N. Wilson Way, Stockton, CA 95205]

88-005135 Pickard, Alan; Allen M. Grover and Frank A. Hall, Jr. AN EVALUATION OF PREDATOR COMPOSITION AT THREE LOCATIONS ON THE SACRAMENTO-SAN JOAQUIN DELTA. *Interagency Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep.* 2. 1982. FR 33(4)

[Bay-Delta Fish. Project, 4001 N. Wilson Way, Stockton, CA 95205] *Morone saxatilis*, *Ptychocheilus grandis*.

88-005136 Pinay, G.; K. A. Salewicz and G. Kovacs. AN ATTEMPT TO EVALUATE WATER MANAGEMENT ISSUES IN THE ZAMBEZI RIVER BASIN USING DECISION SUPPORT SYSTEMS. *Regul. Rivers Res. Manage.* 2(4):559-563. 1988. FR 33(4)

[Int. Inst. Appl. Syst. Analysis, Schlossplatz 1, A-2361 Laxenburg, Austria]

88-005137 Raquel, Paul F. ESTIMATED ENTRAINMENT OF STRIPED BASS LARVAE AT STATE WATER PROJECT AND CENTRAL VALLEY PROJECT FACILITIES IN THE SACRAMENTO-SAN JOAQUIN DELTA 1985 AND 1986. *Interagency Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep.* 13. 27p. 1987. FR 33(4)

[Bay-Delta Fish. Project, 4001 Wilson Way, Stockton, CA 95205] *Morone saxatilis*.

88-005138 Sheldon, Andrew L. CONSERVATION OF STREAM FISHES: PAUCITY OF SPECIES DIVERSITY, RARITY, AND RISK. *Conserv. Biol.* 2(2):149-156. 1988. In *Conservation of Biological Resources*. Spanish summ. FR 33(4)

[Zool. Dep., Univ. Mont., Missoula 59812]

88-005139 Szaro, Robert C. and John N. Rinne. ECOSYSTEM APPROACH TO MANAGEMENT OF SOUTHWESTERN RIPARIAN COMMUNITIES. *Trans. N. Am. Wildl. Nat. Resour. Conf.* 53:502-511. 1988. FR 33(4)

[U.S. For. Serv., Rocky Mt. For. & Range Exp. Stn., Ariz. State Univ., Tempe, AZ 85287]

88-005140 Tsai, Chu-fa and Liaquat Ali. CARP SPAWN FISHERY IN THE PADMA-BRAHMAPUTRA RIVER SYSTEM, BANGLADESH. *Indian J. Fish.* 33(4):386-400. 1987. FR 33(4)

[Chesapeake Biol. Lab., Cent. Environ. & Estuarine Studies, Univ. Md., 2068

88-005141 Turner, R. Eugene. SECONDARY PRODUCTION IN RIPARIAN ECOSYSTEMS. *Trans. N. Am. Wildl. Nat. Resour. Conf.* 53:491-501. 1988. FR 33(4)

005142 Udidiang, O. M. A COMPARATIVE SURVEY OF THE FISH COMMUNITIES OF NIGERIAN HEADWATER STREAMS IN RELATION TO MAN-MADE PERTURBATION. *J. Conserv.* 45(2):93-108. 1988. FR 33(4)

[Dep. Zool. & Fish., Univ. Cross River State, PMB 1017, Uyo, Nigeria]

005143 Vincent, Frederic. COLUMBIA BASIN ANADROMOUS SALMONID FISHERIES. *Classification of Fishery Resources. John H. Crover, editor. p. 486-492. 1980. In English*  
[English summ. FR 33(4)]

[U.S. Fish & Wildl. Serv., 500 N.E. Multnomah St., Portland, OR 97232]

005144 Whittier, Thomas R.; Robert M. Hughes and David P. ...  
CORRESPONDENCE BETWEEN ECOREGIONS AND SPATIAL PATTERNS IN STREAM ECOSYSTEMS IN OREGON. *Can. J. Fish. Aquat. Sci.* 45(7):1264-1278. 1988. In English  
[English summ. FR 33(4)]

[Northrop Serv. Inc., 200 SW 35th St., Corvallis, OR 97333]

005145 Wood, Richard. OUTSTANDING PROBLEMS IN RIVER REGULATION. *Rivers Res. Manage.* 2(3):471-477. 1988. FR 33(4)

[Severn Trent Water Authority, Abelson House, Coventry Rd., Birmingham, England]

#### WATER POND AND SMALL IMPOUNDMENT MANAGEMENT AND RESEARCH

005146 Scarnecchia, Dennis L. EVALUATION OF FISH ERADICATION AND GAMMA RAY STOCKING IN A CENTRAL IOWA POND. *J. Iowa Acad. Sci.* 95(2):55-59. 1988. FR 33(4)  
[Dep. Anim. Ecol., Iowa State Univ., Ames 50011]

#### LARGE IMPOUNDMENT MANAGEMENT AND RESEARCH

005147 Finnell, Larry M. THE FISHERIES OF ELEVENMILE CANYON RESERVOIR, COLORADO, 1982-1987. *Colo. Div. Wildl. Spec. Rep. No. 63. 21p. 1988. Available at Res. Cent. Library, Colo. Div. Wildl., 317 W. Prospect, Fort Collins 80526. FR 33(4)*  
[*Sisox lucius, Salmo gairdneri, and Oncorhynchus nerka.*]

005148 Irving, John Spencer. THE EFFECTS OF SELECTIVE WATER WITHDRAWAL ON PLANKTON POPULATIONS OF LAKE KOOCANUSA, MONTANA. *M.S. Thesis* 76p. 1987. FR 33(4)

005149 Johnson, Brett M.; Roy A. Stein and Robert F. Carline. USE OF A QUANTITATIVE TECHNIQUE AND BIOENERGETICS MODELING TO EVALUATE FEED AVAILABILITY TO STOCKED PISCIVORES. *Trans. Am. Fish. Soc.* 117(2):127-141. 1988. FR 33(4)  
[Dep. Nat. Resour., 3070 Fish Hatchery Rd., Madison, WI 53713] *Dorosoma cepedianum* and *Stizostedion vitreum* in Ohio.

005150 Khalaf, Elsayed A. EFFECT OF IMPOUNDMENT ON THE GROWTH AND FEEDING OF *BAGRUS DOCMAC* IN LAKE NASSER. *Regul. Rivers Res. Manage.* 2(4):547-555. 1988. FR 33(4)

[Dep. Zool., Fac. Sci., Almenofeya Univ., Shebeen Alkoom, Egypt]

005151 Krizek, J. DEVELOPMENT OF THE ICHTHYOFAUNA AND THE GROWTH OF PERCH (*PERCA FLUVIATILIS* L.) IN THE STANOVICE RESERVOIR DURING THE FIRST YEARS AFTER FILLING. *Pr. Vodnany* No. 16. p. 13-31. 1987. In English with Czech summ. FR 33(4)

[Vyzkumny ustav rybarsky & hydrobiol., Vodnany, pracoviste Dol. 252 66 Libice nad Blazovou, Czechoslovakia]

005152 Libosvarsky, Jiri. IMPACT OF A NEWLY BUILT RESERVOIR ON SILVER BASS (*MORONE BICOLOR*) IN THE STANOVICE RESERVOIR DURING THE FIRST YEARS AFTER FILLING. *Folia Zool.* 36(4):359-370. 1987. In English with Russian summ. FR 33(4)

[Inst. Syst. & Ecol. Biol., Czech. Acad. Sci., Brno, Czechoslovakia]

005153 Pavlov, Dmitrij Sergejevic; Vlastimil Barus; Viktor Konstantinovic Nezdov; Vladimír Gajdusek. DOWNSTREAM FISH MIGRATION FROM MOSTISTE AND VESTEC RESERVOIRS. *Prirodoved. Pr. Ustavu Cesk. Akad. Ved Brne* 21(12):64p. 1987. In English with Russian summ. FR 33(4)

[A.N. Severtzov Inst. Evol. Anim. Morphol. & Ecol., Acad. Sci., Leninski Prospekt 1, 119071 Moscow, USSR]

005154 Poddubnyy, A. G. PRESENT STATE AND PROSPECTS OF FISHERY UTILIZATION OF RESERVOIRS. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):35-40. 1987. In English with Russian summ. FR 33(4)

005155 Willis, Charles F., compiler. PROCEEDINGS OF THE RESERVOIR MORTALITY WORKSHOP. *Columbia Basin Fish Wildl. Auth.* 39p. 1987. FR 33(4)  
[P.O. Box 59, Portland OR 97207] A collection of 14 presentations.

005156 Zhou Jie; Wang Ning; Zhang Shiping; Yi Bolu and Nie Xiuyun. [A STUDY ON THE HYDROBIOLOGY AND THE FISH YIELD OF LAKE QINGLING WITH RESPECT TO FISHERIES MANAGEMENT.] *Oceanol. Limnol. Sin.* 18(5):442-449. 1987. In Chinese with English summ. FR 33(4)

[Huazhong Agric. Univ., Wuhan, China]

#### ESTUARINE MANAGEMENT AND RESEARCH

005157 Brylinsky, Michael and G. R. Daborn. COMMUNITY STRUCTURE AND PRODUCTIVITY OF THE CORNWALLIS ESTUARY, MINAS BASIN. *Continental Shelf Res.* 7(11-12):1417-1420. 1987. From *Deep-Sea Res. Part B Oceanogr. Lit. Rev.* 35(6):3541-3550. 1988. In English with English summ. FR 33(4)

[Acadia Cent. Estuarine Res., Acadia Univ., Wolfville, NS, Canada B0P 1X0]

005158 Camp, J. and M. Delgado. [HYDROGRAPHY OF THE EBRO DELTA ESTUARY.] *Est. Pesq.* 51(3):351-369. 1987. In Spanish with English summ. FR 33(4)

[Inst. Cienc. Mar., Paseo Nac., s/n. 08003 Barcelona, Spain]

005159 Cantrelle, I.; G. Castelnaud; O. Clement and J. Gault. [THE ELVER FISHERY IN FRANCE: OVERVIEW AND REGULATORY ASPECTS AND A CASE STUDY OF THE GIRONDE RIVER ESTUARY.] In: *Allocation of Fishery Resources.* John H. Grover, ed. p. 31-33. 1980. In French with English summ. FR 33(4)

[Univ. Aménagements Littoraux Aquacult., 50, Ave. Verdun, BP 3 Gazinet, 33610

88-005161 Priedland, Kevin D. and Leonard W. Haas. LEMMA  
ATLANTIC MENHADEN, *BREVOORTIA TYRANNUS* (PISCES: CLUPEI  
RIVER ESTUARY. *Estuaries* 11(1):45-50. 1988. FR 33(4)

[Natl. Mar. Fish. Serv., Woods Hole Lab., Woods Hole, MA 02543]

88-005162 Jacobsen, Terri. AN ECOSYSTEM-LEVEL STUDY OF  
LAGOON: BIOMASS ESTIMATION OF THE LEMON SHARK (*NECAP*  
TOP CONSUMER SPECIES. *Ph.D. dissertation, Univ. Ga.* 253p.  
Int. B Sci. Eng. 49(3):621. 1988. FR 33(4)

89-005163 Kitching, J. A. ECOLOGICAL STUDIES AT LOUGH HY  
*Ecol. Res.* 17:115-186. From: *Deep-Sea Res. Part B. Oceanogr. L*  
FR 33(4)

88-005164 Lopez S., Myrna I. and Carlos Arias de la  
ICHTHYOPLANKTON IN THE POCHOTE ESTUARY, BAHIA BALLE  
RICA.] *Rev. Biol. Trop.* 35(1):121-126. 1987. In Spanish with Eng  
[Escuela Biol., CIMAR, Univ. Costa Rica, Costa Rica]

88-005165 Mironowski, A. N. [GEOGRAPHICAL VARIATION OF  
FEATURES OF THE MICROEVOLUTION OF POPULATIONS IN DR  
*Zool. Zh.* 67(7): 1013-1024. 1988. In Russian with English summ. F  
[Inst. Biol. Inland Waters, USSR Acad. Sci., Borok, Yaroslavl D

88-005166 Norcross, Brenda L.; David Hata and John  
COMPOSITION OF FINFISH IN WATERS BEHIND THE VIRGINIA B  
*Sci.* 39(2):120. 1988. Abstract only. FR 33(4)

[Div. Biol. Ocean. & Fish. Sci., Inst. Mar. Sci., Coll. William  
VA 23062]

88-005167 Therres, Glenn D.; Janet S. McKegg and Robert  
CHESAPEAKE BAY CRITICAL AREA PROGRAM: IMPLICATIONS F  
*Am. Wildl. Nat. Resour. Conf.* 53:391-400. 1988. FR 33(4)

[For., Park & Wildl. Serv., Wye Mills, MD]

88-005168 Wernette, Frank G. 1981 SUISAN MARSH VEGETATI  
*Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep.* 10.

#### MARINE MANAGEMENT AND RESEARCH

88-005169 Alcala, Angel C. EFFECTS OF MARINE RESE  
ABUNDANCES AND YIELDS OF PHILIPPINE CORAL REEFS. *Ambi*  
33(4)

[Mar. Lab., Silliman Univ., Dumaguete City, Philippines]

88-005170 Bertolotti, M. Isabel; Graciela V. Piergentili and  
ARGENTINEAN FISHERY INDUSTRY.] *Invest. Pesq.* 51(Suppl. 2)  
with English summ. FR 33(4)

[INIDEP, Playa Grande, Mar Plata, Argentina]

- 005171 Bockstaal, Nancy E. COMMERCIAL FISHERIES MANAGEMENT: THE ISLAND GROUND FISH EXPERIENCE. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 27-30. 1980. In English with French summ. FR 33(4)  
 Dep. Resour. Econ., Univ. R.I., Kingston 02881]
- 005172 Choat, J. H.; A. M. Ayling and D. R. Schiel. TEMPORAL AND SPATIAL VARIATION IN AN ISLAND FISH FAUNA. *J. Exp. Mar. Biol. Ecol.* 121(2):91-111. 1987. FR 33(4)  
 Dep. Mar. Biol., James Cook Univ., Townsville, Qld. 4811, Australia]
- 005173 Clark, Colin W. and Geoffrey P. Kirkwood. ON UNCERTAIN RENEWABLE RESOURCE STOCKS: OPTIMAL HARVEST POLICIES AND THE VALUE OF STOCK SURVEYS. *Environ. Econ. Manage.* 13(3):235-244. 1986. FR 33(4)  
 Inst. Appl. Math., Univ. British Columbia, Vancouver, BC, Canada V6T 1Y4]
- 005174 Clarke, Arthur C. THE BATTLE FOR THE CORAL REEFS. *Lois* 18(1):12-14. 1987. FR 33(4)  
 Univ. Moratuwa, Moratuwa, Sri Lanka]
- 005175 Dekhnik, T. V. and T. S. Rass. MAIN ASPECTS OF THE STUDY OF PHYTOPLANKTON. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):51-57. 1987. FR 33(4)
- 005176 Dickson, R. R. and R. G. V. Boelens, editors. THE STATUS OF CURRENT KNOWLEDGE ON ANTHROPOGENIC INFLUENCES IN THE IRISH SEA. *Int. Council. for the Exp. Res. Coop. Res. Rep. No. 155.* 89p. 1988. FR 33(4)  
 MAFF, Dir. Fish. Res., Fish. Lab., Lowestoft, Suffolk NR33 0HT, England]
- 005177 Didou, M. Henri. [THE MARINE FISHERIES OF BRITAIN: REPORT ON PROSPECTS FOR THE FUTURE.] *Equinoxe* No. 18. p. 27-34. 1988. In French. FR 33(4)
- 005178 Edwards, Robert L. PROBLEM OF THE DETERMINATION OF ALLOCATION PRINCIPLES IN THE NORTHWEST ATLANTIC REGION OF THE USA. *In: Allocation of Fishery Resources. John H. Grover, editor.* p. 109-118. 1980. In English with French summ. FR 33(4)  
 Northeast Fish. Cent., NMFS, NOAA, Woods Hole, MA 02543]
- 005179 Galzin, Rene and Pierre Legendre. THE FISH COMMUNITIES OF A CORAL REEF. *Pac. Sci.* 41(1-4):158-165. 1987. FR 33(4)  
 Lab. Biol. Mar. & Malacol., Ecole Pratique Hautes Etudes, 55 rue de Buffon, Paris 12, France]
- 005180 Garratt, P. A. BAROTRAUMA AND SEX REVERSAL - WHAT MANAGEMENT STRATEGY? *Ocean. Res. Inst. (Durban) Poster No. 4.* 1987. Presented at Sixth Oceanographic Symposium, University of Stellenbosch, Stellenbosch. 6-10 July 1987. FR 33(4)  
 Oceanogr. Res. Inst., P.O. Box 10712, Marine Parade, Durban 4056, South Africa]

88-005182 Hanlon, Roger T. and Raymond F. Hixon. BEHAVIORAL CORAL REEF FISHES WITH THE SEA ANEMONE *CONDYLACTIS GIGAS*. TORTUGAS, FLORIDA. *Bull. Mar. Sci.* 39(1):130-134. 1986. FR 33(4)  
 [Mar. Biomed. Inst., 200 University Blvd., Univ. Tex. Med. Branch 2772]

88-005183 Herrgesell, Perry L.; Raymond G. Schaffter and Caryla J. L. FRESHWATER OUTFLOW ON SAN FRANCISCO BAY BIOLOGICAL RESOURCE. *Ecol. Study Prog. Sacramento-San Joaquin Estuary Tech. Rep. 7*. 86p. 1988. FR 33(4)  
 [Bay-Delta Fish. Project, 4001 N. Wilson Way, Stockton, CA 95205]  
*Parophrys vetulus*, *Sprinchus tholeichthys*, and *Clupea harengus pallasii*

88-005184 International Council for the Exploration of the Sea. RECOMMENDATIONS OF THE ADVISORY COMMITTEE ON FISHERY MANAGEMENT, 1987. *Int. Council. Res. Rep. No. 153*. 417p. 1988. FR 33(4)  
 [ICES, Palaegade 2-4, DK-1261 Copenhagen K, Denmark]

88-005185 International Council for the Exploration of the Sea. MARINE AND WATER QUALITY MODELS. *Int. Council. Explor. Sea Coop. Res. Rep. No. 154*. 1988. FR 33(4)  
 [Palaegade 2-4, 1261 Copenhagen K, Denmark]

89-005186 Jie Zheng and Carl J. Walters. POPULATION DYNAMICS AND ASSESSMENT OF WANSHAN SPRING *DECAPTERUS MARUADSI* (T. & S.). *SEA. Fish. Res.* 6(3):217-231. 1988. FR 33(4)  
 [School Fish. & Sci., Univ. Alaska, 11120 Glacier Hwy., Juneau 99801]

88-005187 Kasim, H. Mohamad and Mohammad Zafar Khan. A PRELIMINARY ASSESSMENT OF THE GILLNET FISHERY OFF VERAVAL DURING 1979-82. *Indian J. Fish.* 25(4):354-358. 1986. FR 33(4)  
 [Cent. Mar. Fish. Res. Cent., Veraval, India]

88-005188 Khan, Mohammad Zafar. MORTALITY AND STOCK-SIZE ESTIMATION OF THE BOMBAYDUCK, *HARPODON NEHEREUS* (HAM.), OFF NAWABUNDER, COAST OF INDIA. *Fish. Res.* 33(3):354-358. 1986. FR 33(4)  
 [Bombay Res. Cent. Central Mar. Fish. Res. Inst., Bombay, India]

88-005189 Kriksunov, E. A. and N. Hilden. ANALYSIS OF SEASONAL VARIATION IN FISH HARVEST. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 27(6):85-89. 1988. FR 33(4)  
 [Biol. Fac., Moscow State Univ., Moscow, USSR]

88-005190 McAllister, Don E. A GLOWING FUTURE FOR MARINE AQUACULTURE IN THE PEACEFUL PHILIPPINE REVOLUTION UNDER THE SEAS. *Trop. Fish. Res. Rep.* 1988. FR 33(4)

88-005191 McManus, John W. CORAL REEFS OF THE ASEAN REGION: A REVIEW OF MANAGEMENT. *Ambio* 17(3):189-193. 1988. FR 33(4)

- 8-005193 Moiseev, P. A. [FISH PRODUCTIVITY OF THE COASTAL WATERS OF THE FISHING AREAS OF THE WORLD OCEAN.] *Mar. Biol. Vladivostok* 1988(1):52-58. Russian with English summ. FR 33(4)  
[All-Union Inst. Food Ind., Moscow 109803, USSR]
- 8-005194 Moiseev, P. A. BIOPRODUCTIVE POTENTIAL OF THE WORLD OCEAN. *Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):47-50. 1987. FR 33(4)
- 8-005195 Murty, V. Sriramachandra. STUDIES ON THE GROWTH AND POPULATION DYNAMICS OF SILVERBELLY *LICOGNATHUS BINDUS* (VALENCIENNES) IN THE TERRITORIES OFF KAKINADA. *Indian J. Fish.* 33(3):277-284. 1986. FR 33(4)  
[Kakinada Res. Cent. CMFR Inst., Kakinada 533002, India]
- 8-005196 Myers, Katherine W. and Donald E. Rogers. STOCK ORIGINS OF CHINQUAPIN SALMON IN INCIDENTAL CATCHES BY GROUND FISH FISHERIES IN THE EASTERN PACIFIC. *N. Am. J. Fish. Manage.* 8(2):162-171. 1988. FR 33(4)  
[Fish. Res. Inst., School Fish., WH-10, Univ. Wash., Seattle 98195] *Oncorhynchus tshawytscha*.
- 8-005197 Nakamura, Eugene L. WHAT IS THE BEST USE OF FISH RESOURCES IN THE U.S. GULF OF MEXICO? In: *Allocation of Fishery Resources*. John H. Crover, ed. pp. 189-202. 1980. In English with French summ. FR 33(4)  
[U.S. Dep. Commerce, 3500 Delwood Beach Rd., Panama City, FL 32407]
- 8-005198 Pearcy, W. G. and A. Schoener. CHANGES IN THE MARINE BIOTA COMPOSITION SINCE THE 1982-1983 EL NINO IN THE NORTHEASTERN SUBARCTIC PACIFIC OCEAN. *Deep-Sea Res.* 92(C13):11,417-11,428. 1987. From *Deep-Sea Res. Part B Oceanogr.* 35(7):4015. 1988. FR 33(4)  
[Coll. Oceanogr., Oreg. State Univ., Corvallis 97331]
- 8-005199 Perin, N. V. SOVIET OCEANIC ICHTHOLOGY: ACHIEVEMENTS AND PROSPECTS. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtol.)* 27(6):39-46. 1987. FR 33(4)
- 8-005200 Pillai, S. Krishna. THE RELATIVE MAGNITUDES OF PELAGIC AND DEMERSAL GROUPS OF FISHES IN THE TOTAL LANDINGS AT SASOON DOCK IN 1971 AND 1972. A COMPARISON. *Indian J. Fish.* 33(3):359-361. 1986. FR 33(4)  
[Mandapam Regional Cent. CMFR Inst., Mandapam Camp, India]
- 8-005201 Prosser, Norville S.; David B. Rockland and Gilbert C. Radonski. THE EFFECTS OF LIFE-CYCLE THEORY, AQUACULTURE AND ECONOMICS IN MARINE FISH MANAGEMENT. *Trans. N. Am. Wildl. Nat. Resour. Conf.* 53:577-583. 1988. FR 33(4)  
[Sport Fish. Inst., Washington, DC]
- 8-005202 Sanderson, S. Laurie and Allan C. Solonsky. COMPARISON OF A RAPID AND A STRIP TRANSECT TECHNIQUE FOR CENSUSING REEF FISH ASSEMBLAGES. *Mar. Sci.* 39(1):119-129. 1986. FR 33(4)  
[Mus. Comp. Zool., Harvard Univ., Cambridge, MA 02138]
- 8-005203 Solomon, Ronald L. DEVELOPMENT OF MARINE RECREATIONAL FISHING



- 88-005204 Shimizu, Hiroshi and Hideo Tameishi. DISCRIMINATION OF SAURY FISHING GROUNDS BY SATELLITE INFRARED REMOTE SENSING. *Suisan Gakkaiishi* 54(7):1093-1099. 1988. FR 33(4)  
 [Dep. Fish., Nihon Univ., Shimouma 3-34, Setagaya, Tokyo 154, Japan]
- 88-005205 Shuntov, V. P. FISH PRODUCTIVITY OF THE FAR EASTERN OCEAN. *(Engl. Transl. Vopr. Ikhtiol.)* 27(6):72-79. 1987. FR 33(4)
- 88-005206 Shuntov, V. P.; A. F. Volkov and A. Ya. Efimkin. [THE] PRESENT STATE OF PELAGIC FISH COMMUNITIES OF WESTERN PACIFIC OCEAN. *Biol. Vladivostok* 1988(2):56-65. 1988. In Russian with English summ.  
 [Lab. Appl. Biocenol. & Lab. Mar. Ecosyst., Pac. Res. Inst. Vladivostok 690600, USSR] *Clupea harengus pallasii* and *Mallotus villosus*
- 88-005207 Sinclair, Michael and T. Derrick Hes. POPULATION RICHNESS OF SAURY SPECIES. *Aquat. Living Resour.* 1(1):71-83. 1988. In English with French summ.  
 [Dep. Fish. & Oceans, Halifax Fish. Res. Lab., Halifax, NS, Canada]
- 88-005208 Thierry, Jean-Marie. ARTIFICIAL REEFS IN JAPAN - A REVIEW. *Aquacult. Eng.* 7(5):321-348. 1988. FR 33(4)  
 [Soc. Franco-Japonaise Oceanogr., 195 rue St. Jacques, 75008 Paris]
- 88-005209 Tolentino, Amado S., Jr. LEGISLATIVE RESPONSE TO THE ASEAN SUBREGION. *Ambio* 17(3):238-242. 1988. FR 33(4)  
 [Natl. Environ. Protection Council, 6th Floor, Philippine Heart Center, Ave., Diliman, Quezon City, Philippines]
- 88-005210 Townsend, David W. and Leon M. Cammen. POTENTIAL TIMING OF SPRING PLANKTON BLOOMS TO BENTHIC-PELAGIC RECRUITMENT OF JUVENILE DEMERSAL FISHES. *Biol. Oceanogr.* 3:FR 33(4)  
 [Bigelow Lab. Ocean Sci., McKown Point, W. Boothbay Harbor, ME 04873]
- 88-005211 Tsamenyi, B. Martin. THE EXERCISE OF COASTAL STATE FISHERIES RESOURCES: THE SOUTH PACIFIC PRACTICE. *Ambio* 17(3):243-247. 1988. FR 33(4)  
 [Fac. Law, Univ. Tasmania, G.P.O. Box 252C, Hobart, Tasm., 7001]
- 88-005212 van der Elst, R.; F. Adkin; D. Ballard and J. Shun. LINEFISH CATCH STATISTICS: RECREATIONAL DATA. *Ocean. Res.* No. 12. 1987. Presented at Sixth National Oceanographic Symposium, Stellenbosch, Stellenbosch. 6-10 July 1987. FR 33(4)  
 [Oceanogr. Res. Inst., P.O. Box 10712, Marine Parade, Durban 4051]

005213 Cho, Soon-Yeong, Ayumi Mura; Kenshiro Fujimoto and Mikio  
IMPROVEMENT IN OXIDATIVE STABILITY OF FISH MEAL BY ADDITION OF GLUCOSAMINE  
ACCELERATED MAILLARD REACTION. *Nippon Suisan Gakkaishi* 54(6):1017-1022. 1988. In English. FR 33(4)  
[Dep. Food Chem., Fac. Agric., Tohoku Univ., Sendai 980, Japan]

005214 Fujimoto, Kenshiro; Yasushi Endo; Soon-Yeong Cho; Ritsuko Watabe; Toshiaki  
Miki; Masanori Konno; Kazuo Shoji; Kunio Arai and Shozaburo Saito. A NEW METHOD FOR  
PRODUCING KAMABOKO FROM SARDINE MEAT POWDER BY DEHYDRATION WITH A  
HYDROPHILIC COLLOID, ISOCYANATE RESIN AND DEFATTING WITH LIQUIFIED CARBON DIOXIDE. *Nippon Suisan Gakkaishi* 54(6):1071. 1988. In English. FR 33(4)  
[Dep. Food Chem., Fac. Agric., Tohoku Univ., Amamiya-Machi Tsutsumidori, Sendai 980, Japan]

005215 Kawai, Yuji and Mutsuo Hatano. [CURDING OF EMULSIONS STABILIZED BY  
ACACINYLATED PROTEIN FROM SARDINE AND RIPENING OF THE EMULSION CURD.] *Nippon Suisan Gakkaishi* 54(6):1027-1033. 1988. In Japanese with English summ. FR 33(4)  
[Lab. Food Chem. I, Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

005216 Kawai, Yuji; Hiroshi Nomata and Mutsuo Hatano. [DEVELOPMENTS IN THE  
PROTEIN UTILIZATION OF ABUNDANTLY CAUGHT FATTY FISH VI. PREPARATION OF  
ACACINYLATED TOTAL PROTEIN FROM SARDINE MUSCLE AND UTILIZATION OF THE  
ACACINYLATED PROTEIN BY MICROORGANISMS.] *Bull. Fac. Fish. Hokkaido Univ.* 39(1):1-13. 1988. In Japanese with English summ. FR 33(4)  
[Lab. Food Chem., Fac. Fish., Hokkaido Univ., Minato-cho, Hakodate 041, Japan]

005217 Miwa, Eiji; Tian-Tsuan Wang; Satoshi Kanoh and Teruo Nakamura. EFFECT OF  
DISTRIBUTION OF GELLING SUBSTANCE TO MUSCULAR PROTEIN NETWORK STRUCTURE ON  
TEXTURE OF KAMABOKO. *Nippon Suisan Gakkaishi* 54(6):898-902. 1988. In English. FR 33(4)  
[Fac. Fish., Mie Univ., Tsu 514, Japan]

005218 Muramoto, Manabu and Nobuo Seki. [FRAGMENTATION OF THE DENATURED  
ACTIN MYOSIN BY CALPAIN AND SOME PROPERTIES OF THE FRAGMENTS.] *Nippon Suisan Gakkaishi* 54(6):1055-1061. 1988. In Japanese with English summ. FR 33(4)  
[Dep. Food Sci., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

005219 Niwa, Eiji; Tian-tsuan Wang; Satoshi Kanoh and Teruo Nakamura. EFFECT OF  
STRENGTHENING EFFECT OF THE VARIOUS NATURAL HIGH POLYMERS ON THE  
TEXTURE OF THE KAMABOKO. *Nippon Suisan Gakkaishi* 54(5):841-844. 1988. In English. FR 33(4)  
[Fac. Fish., Mie Univ., Tsu 514, Japan]

005220 Obatake, Atsushi and Masakatu Kawano. RELATIONSHIP BETWEEN MUSCLE  
GLYCOGEN CONTENT AND BODY SIZE IN COMMON MACKEREL. *Nippon Suisan Gakkaishi* 54(5):885. 1988. In English. FR 33(4)  
[Fac. Agric., Kochi Univ., Nankoku, Kochi 783, Japan] *Scomber japonicus* and *Scomber australasicus*.

88-005221 Savage, G. P. and M. J. Foulds. CHEMICAL COMPOSITION AND NUTRITIONAL VALUE OF ANTARCTIC KRILL (*EUPHAUSIA SUPERBA*) AND SOUTHERN SKINK (*MICROMESISTIUS AUSTRALIS*). *N.Z. J. Mar. Freshwater Res.* 21(4):533-544. 1988.

[Dep. Biochem., Lincoln Coll., Univ. Canterbury, Canterbury, New Zealand]

88-005222 Takiguchi, Akihiko. [EFFECTS OF SMOKING ON LIPID OXIDATION AND NIBOSHI POWDER.] *Nippon Suisan Gakkaishi* 54(5):869-874. 1988. English summ. FR 33(4)

[Chiba Prefectural Fish. Exp. Stn., Chikura, Chiba 295, Japan] *Engraulis*

#### MISC. TECHNIQUES AND EQUIPMENT

88-005223 Alberta Fish and Wildlife Division. AERATING LAKES AND PREVENTING WINTERKILL. *Alberta Fish. Wildl. Div. Habitat Dev. Fact Sheet No. 4*. 1988. [Sun Cent., 530-8 St. S., Lethbridge, AB, Canada T1J 2J8]

88-005224 Anthouard, M. and V. Wolf. A COMPUTERIZED SURVEILLANCE SYSTEM FOR MONITORING SELF-FEEDING MEASURES IN FISH POPULATIONS. *Aquaculture* 71(1):1-10. 1988. FR 33(4)

[Lab. Psychophysiol., U.E.R. Sci. Comportement & Environ., Univ. Louis Pasteur, Universite, 67800 Strasbourg, France] *Oreochromis mossambicus*, *Dicentrarchus labrax*, *Silurus glanis*.

88-005225 Bevan, David J. and Donald L. Kramer. A CONTROL SYSTEM FOR THE LONG TERM MAINTENANCE OF HYPOXIC WATER. *Aquaculture* 71(1/2):165-169. 1988. FR 33(4)

[80 Moorergate Crescent, Apt. 1001, Kitchener, ON, Canada N2M 5G1]

88-005226 Blouw, D. M.; S. D. Saxon and E. M. P. Chadwick. TEMPORAL AND SPATIAL VARIATION IN MORPHOLOGICAL TRAITS WITHIN AN ATLANTIC SALMON (*SALMO SALAR*) POPULATION: IMPLICATIONS FOR STOCK IDENTIFICATION. *Can. J. Fish. Aquat. Sci.* 45(1):1-10. 1988. In English with French summ. FR 33(4)

[Dep. Biol., St. Francis Xavier Univ., Antigonish, NS, Canada B2G 1C0]

88-005227 Cairns, D. K. SEABIRDS AS INDICATORS OF MARINE FOOD WEB STRUCTURE. *Oceanogr.* 5(4):261-271. 1987. FR 33(4)

[Sci. Branch, Dep. Fish. & Oceans, Box 5030, Moncton, NB, Canada E1B 4X1]

88-005228 Denton, N. R.; G. Cliff; A. P. Bowmaker and G. D. Thurman. THE EFFECTS OF TRANSPORT AND MAINTENANCE IN CAPTIVITY OF LARGE SHARKS FOR RESEARCH PURPOSES IN THE FIELD. *Ocean. Res. Inst. (Durban) Poster No. 2*. 1987. Sixth National Oceanographic Symposium, University of Stellenbosch, Stellenbosch, South Africa, July 1987. FR 33(4)

[Oceanogr. Res. Inst., P.O. Box 10712, Marine Parade, Durban 4013, South Africa] *Corchorinus obscurus*, *C. leucas*, and *Galeocerdo cuvieri* in South Africa.

88-005229 Gregory, R. S. and P. M. Powles. RELATIVE SELECTIVITIES OF PLANKTON NETS, SPEED SAMPLERS AND LIGHT TRAPS FOR COLLECTING ICHTHYOPLANKTON. *Fish. Aquat. Sci.* 45(6):993-998. 1988. In English with French

88-005229 CONTINUED summ. FR 33(4)

[Dep. Zool., Univ. British Columbia, 6270 University Blvd., Vancouver, B.C. V6T 1Z2] *Lepomis gibbosus*, *Perca flavescens*, and *Etheostoma exile* in Canada.

88-005230 Hansel, Hal C.; Stephen D. Duke; Peter T. Lofy and Gerard J. R. Scott. DIAGNOSTIC BONES TO IDENTIFY AND ESTIMATE ORIGINAL LENGTH OF PREY FISHES. *Trans. Am. Fish. Soc.* 117(1):55-62. 1988. FR 33(4)

[Duke: U.S. Fish & Wildl. Serv., Natl. Fish. Res. Cent., Columbia River, Cook, WA 98605]

88-005231 Hidaka, Hideo and Ryo Tatsukawa. [MARKING METHODS AND BEHAVIOR OF FISH.] *Nippon Suisan Gakkaishi* 54(5):887. 1988. In Japanese with English summ.

[Dep. Environ. Conserv., Ehime Univ., Tarumi 3-5-7, Matsuyama 790, Japan]

88-005232 Hu Mantian and Wu Baoren. [A SMART DIRECT READING METHOD FOR OCEANOGRAPHY.] *Oceanol. Limnol. Sin.* 19(2):173-178. 1988. In Chinese with English summ.

[Shandong Coll. Oceanol., Qingdao, China]

88-005233 International Council for the Exploration of the Sea. REPORT OF THE GROUP ON METHODS OF FISH STOCK ASSESSMENTS: COPENHAGEN, DENMARK, 1985. *Int. Counc. Explor. Sea Coop. Res. Rep. No. 157*. 92p. 1988. FR 33(4)

[Int. Counc. Explor. Sea, Palegade 2-4, 1261 Copenhagen K, Denmark]

88-005234 Maisse, Gerard; Alain Pinson and Maurice Loir. [CHARACTERIZATION OF FITNESS FOR CRYOPRESERVATION OF MILT FROM RAINBOW TROUT (*Salmo gairdneri*) TOGETHER WITH PHYSICO-CHEMICAL CRITERIA.] *Aquat. Living Resources* 1988. In French with English summ. FR 33(4)

[INRA, Lab. Physiol. Poissons, Campus Beaulieu, 35042 Rennes Cedex, France]

88-005235 Mukai, Tohru; Tsuneyoshi Suzuki; Noritatsu Sano and Kohji Iwano. [EFFECT OF SWIMBLADDER ON TARGET STRENGTH OF KOKANEE (*ONCORHYNCHUS MYKISS* ADONIS).] *Bull. Fac. Fish. Hokkaido Univ.* 39(2):106-114. 1988. In Japanese with English summ. FR 33(4)

[Lab. Instrument Eng. Fishing, Fac. Fish., Hokkaido Univ., Hakodate City, Hokkaido, Japan]

88-005236 Petering, Raymond W. and Michael J. Van Den Avyle. RELATIONSHIP OF A PUMP FOR SAMPLING LARVAL GIZZARD AND THREADFIN SHAD. *Trans. Am. Fish. Soc.* 117(1):78-83. 1988. FR 33(4)

[School Nat. Resour., Div. Fish. & Wildl. Manage., 122A Kottman Hall, Columbus 31906] *Dorosoma petenense* and *D. cepedianum* in Georgia.

88-005237 Saad, A.; R. Billard; M. C. Tharon and M. G. Hollebecq. [EFFECT OF CRYOPRESERVATION OF CARP (*CYPRINUS CARPIO*) SEMEN.] *Aquaculture* 71(1):1-10. 1988. FR 33(4)

[I.N.R.A., Stn. Physiol. Anim., 78350 Jouy-en-Josas, France]

88-005238 Schoonbee, H. J. and J. H. Swanepoel. RAPID REMOVAL OF THE PITUITARY GLAND OF THE SHARPTOOTH CATFISH *CLARIAS GARIEPINUS* (BURUNDI). *Pretoria J. Zool.* 14(2):111-114. 1988. FR 33(4)

[Dep. Zool., Rand Afrikaans Univ., P. O. Box 524, Johannesburg 2000, So

88-005239 Scobbie, Alan E. and Ian M. Mackie. THE USE OF SODIUM DODECYLSULFATE POLYACRYLAMIDE GEL ELECTROPHORESIS IN FISH SPECIES IDENTIFICATION. A STANDARD PROCEDURE SUITABLE FOR COOKED AND RAW FISH. *J. Sci. Food Agric.* 1989. FR 33(4)

[Torry Res. Stn., 135 Abbey Rd., Aberdeen AB9 8DG, Scotland]

89-005240 Scrivener, J. C. TWO DEVICES TO ASSESS INCUBATION SUCCESS AND THE EMERGENCE OF SALMONID FRY IN AN ESTUARY STREAMBED. *N. Am. J. Fish. Manage.* 8(2):248-259. 1988. FR 33(4)

[Dep. Fish. & Oceans, Biol. Sci. Branch, Pac. Biol. Stn., Nanaimo, B.C.] *Oncorhynchus keta* in Canada.

89-005241 Vilenskaya, N. I. and N. B. Markevich. ON A METHOD OF DETERMINING FECUNDITY BY THE WEIGHT METHOD, WITH AN EXAMPLE IN SALMONID FISHES. *Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 27(6):135-140. 1987. FR 33(4)

[Kamchatka Sect., Pac. Ocean Sci.-Res. Inst. Fish. & Oceanogr., Petropavlovsk-Kamchatskiy, USSR] *Oncorhynchus nerka* and *O. kisutch*.

88-005242 Williams, Thomas D.; John Christiansen and Scott Nygren. IN VIVO ANESTHESIA OF TELEOSTS AND ELASMOBRANCHS USING KETAMINE HYDROCHLORIDE. *AAZPA (Am. Assoc. Zool. Parks Aquariums) Regional Conf. Proc.* p. 133-134. 1988. FR 33(4)

[Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA]

88-005243 Yoshioka, Keiko and Manabu Kitamkado. [DIFFERENTIATION OF FROZEN THAWED FISH FILLET FROM FRESH FISH FILLET BY THE EXAMINATION OF ERYTHROCYTE.] *Nippon Suisan Gakkaishi* 54(7):1221-1225. 1988. In Japan summ. FR 33(4)

[Nakamura Gakuen Coll., Fukuoka 814, Japan]

#### REVIEWS, BIBLIOGRAPHIES, ETC

89-005244 Ebbers, Mark A.; Peter J. Colby and Cheryl A. Lewis. WALL TO WALL BIBLIOGRAPHY. *Minn. Dep. Nat. Resour. Invest. Rep.* No. 396. 201p. 1988

[Dep. Nat. Resour., 500 Lafayette Rd., St. Paul, MN 55155] *Stirostedia* S. *vitreum vitreum*.

Aadland, Luther Phillip E.  
88-002992  
Aasjord, Dagfinn  
88-004146  
Aassar, Sami  
88-002745  
Abban, E. K.  
88-001621  
Abbas, Leon E.  
88-001042  
Abdallah, B.  
88-001325  
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88-002494  
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88-002640  
88-002768  
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88-002792  
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88-003165  
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88-002100  
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88-004650  
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88-000229  
88-005105  
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88-004979  
88-005211  
Adloff, Grothe R.  
88-001997  
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Adordionisio, Corazon  
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88-000901  
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Aebersold, Paul D.  
88-004164  
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88-001374  
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88-002641  
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88-000770  
88-003199  
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88-000639  
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88-004173  
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Alfrater, David J.	88-002031	Andersen, R.	88-000823
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American Fisheries Society	88-003381		88-000990
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88-003018  
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88-004250  
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88-000708  
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88-001622  
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88-004019  
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88-005223  
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88-001655  
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88-003376  
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88-001271  
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88-001656  
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88-003374  
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88-000730  
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88-000661  
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88-000272  
88-001037  
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88-003768  
88-004140  
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88-002504  
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88-000775  
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88-003382  
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88-001270  
Armstrong, Michael J.  
88-003437  
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88-003515  
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88-003166  
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88-000907  
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88-001570  
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88-003652  
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88-002402  
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 88-000360  
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 88-000622  
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 88-001534  
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 88-000574  
 Australian Water Resources Council  
 88-003384  
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88-002832  
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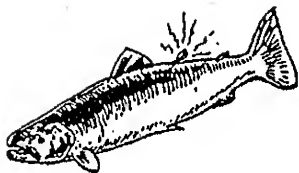
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	Alaska: Resurrection Bay
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River	Alaska: Toolik Lake
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Island	88-005188

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88-001736	88-000119
88-001786	Asia, Southern
88-001825	88-000015
88-002488	Atlantic Ocean
88-003385	88-000149
88-003641	88-000574
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88-004591	88-000612
88-005169	88-000901
Argentina: Argentine Sea	88-000906
88-001845	88-001053
Argentina: Bahia Blanca Estuary	88-001054
88-004742	88-001071
Argentina: Rio de la Plata	88-001081
88-003176	88-001143
Arizona	88-001169
88-002506	88-001172
88-002507	88-001973
88-004210	88-002422
Arizona: Aravaipa Creek	88-002482
88-002899	88-002765
Arizona: Bonita Creek	88-002768
88-002899	88-003095
Arizona: Grand Canyon	88-003113
88-004397	88-003140
Arizona: Kanab Creek	88-003394
88-004397	88-003396
Arizona: Lake Mohave	88-003397
88-000669	88-003398
88-001766	88-004296
Arizona: Lake Pleasant	88-004360
88-002172	88-004509
Arizona: Queen Creek	88-004510
88-005138	88-005012
Arizona: Sycamore Creek	Atlantic Ocean, Eastern
88-001802	88-000216
Arizona: Virgin River	88-002964
88-002505	Atlantic Ocean, Northern
88-002680	88-000590
88-003058	88-000622
Arkansas	88-000729
88-003117	88-001066
88-003515	88-001129
Arkansas: Blue Mountain Lake	88-001315
88-002354	88-001363
Arkansas: Flint Creek Reservoir	88-001364
88-003252	88-001400
Arkansas: Lake Catherine	88-001522
88-001270	88-001551
Arkansas: Lake Coronado	88-001758
88-002357	88-001764
Arkansas: Lake Greeson	88-001767
88-000501	88-001840
Arkansas: Lake Overcup	88-001863
88-003847	88-001868
Arkansas: Nimrod Lake	88-001869
88-002354	88-001914
Arkansas: Red River	88-001928
88-003846	88-002016
Asia	88-002027
88-000028	88-002196
88-000868	88-002197
88-001035	88-002198
88-001056	88-002205

88-002427	Atlantic Ocean, Northwest
88-002430	88-001861
88-002447	88-001862
88-002454	Atlantic Ocean, Northwest
88-002465	88-004680
88-002722	Atlantic Ocean, Northwest
88-002922	88-002444
88-002930	Atlantic Ocean, South
88-003118	88-000682
88-003125	88-000691
88-003158	88-001068
88-003203	88-001096
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88-004056	88-003670
88-004109	88-003671
88-004219	Atlantic Ocean, West Coast
88-004227	88-002417
88-004317	88-002421
88-004324	Atlantic Ocean, Western
88-004366	88-003040
88-004386	88-004552
88-004399	Atlantic Ocean: Gulf of
88-004412	88-004553
88-004431	Atlantic States
88-004447	88-004366
88-004503	Australia
88-004524	88-000506
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88-004541	88-000736
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Atlantic Ocean, North: Georges Bank	88-004315
88-001542	88-004663
88-003015	88-004670
Atlantic Ocean, North: Grand Bank	Australia: Belmore Ri
88-003501	88-003270
Atlantic Ocean, North: Gulf of Maine	Australia: Daly River
88-005209	88-004310
Atlantic Ocean, North: Gulf of St. Lawrence	Australia: Gellibrand
88-001800	88-001023
Atlantic Ocean, North: Irish Sea	Australia: Great Barr

88-004370	Barents S
Australia: Queensland	88-004370
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Australia: Queensland: Fraser Island	88-000304
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Australia: Queensland: Jardine River	88-003062
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Australia: Queensland: Moreton Bay	88-003114
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Australia: Tasmania	88-002949
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Australia: Victoria	88-004981
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Australia: Victoria: Tambo River	88-001951
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Australia: Victoria: Tanjil River	88-004348
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Australia: Western Australia	88-001001
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Austria	88-004734
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Austria: Kamp River	88-000822
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Bahama Islands	88-000645
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Bahama Islands: Bahamian Lagoon	88-004464
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Baltic Sea	88-005161
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88-001963	California: California Big
88-003142	88-004650
88-003146	California: Carquinez Stra
88-004529	88-000247
88-004656	California: Dry Creek
88-004689	88-004923
88-004744	88-004924
Brazil: Mogi Guassu River	California: Eel River
88-003226	88-000946
Brazil: Paraguay River	88-004922
88-004533	California: Elkhorn Slough
Brazil: Parana River	88-004043
88-003069	California: Inyo County
Brazil: Rio de Janeiro State	88-001793
88-001969	California: Klamath River
Brazil: Rio Grande de Sul	88-000650
88-004526	California: Mad River
Brazil: Rio Mato Grosso	88-000997
88-001797	88-004921
Bulgaria	California: Marina del Rey
88-000757	88-004181
88-004629	California: Merced River
Burra	88-001004
88-003139	California: Mission Bay
California	88-004181
88-000074	California: Mokelumne River
88-000486	88-001010
88-000539	88-001011
88-000874	California: Mono County
88-001003	88-001793
88-001065	California: Monterey Bay
88-001097	88-001886
88-001125	88-004305
88-001166	California: Moru Bay
88-001947	88-001739
88-002202	California: Noyo River
88-002414	88-001176
88-002456	88-004925
88-002468	California: Palos Verdes P
88-002486	88-002480
88-002584	California: Point Piedras
88-002892	88-003619
88-002936	California: Roaring River
88-003007	88-003406
88-003155	California: Sacramento Riv
88-003224	88-001949
88-003335	88-002310
88-003393	88-002980
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88-004475	88-004966
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88-004494	California: Sacramento-Sar
88-004522	88-001866
88-004577	California: Sacramento-Sar
88-004949	88-001040
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California, Northern	88-003610
88-002344	88-003611
88-003087	88-003795
88-003963	88-004323
California, Southern	88-004339
88-002413	88-004887
California, Southwestern	California: San Diego Cour
88-004404	88-002951

88-005182	California: San Joaquin River	88-C
88-004850		88-C
California: San Joaquin Valley		88-C
88-004886		88-C
California: Santa Catalina Island		88-C
88-004252		88-C
California: Smith River		88-C
88-003005		88-C
California: Suisan Marsh		88-C
88-003615		88-C
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88-005167	Canada:	88-C
California: Trinity River	Canada:	88-C
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California: Truckee River	Canada:	88-C
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Cameroon	Canada:	88-C
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Canada	Canada:	88-C
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88-000990	Canada:	88-C
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88-001181	Canada:	88-C
88-001522		88-C
88-001757	Canada:	88-C
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88-003681	Canada:	88-C
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Canada, Western	Canada:	88-C
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Canada: British Columbia	Canada:	88-C
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88-000507	Canada:	88-C
88-000531		88-C
88-000594	Canada:	88-C
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88-001185		88-C
88-001460	Canada:	88-C
88-001682		88-C
88-001721	Canada:	88-C
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Canada: Lake Ontario	88-000989
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Canada: Lake Winnipeg	88-001180
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Canada: Manitoba	88-001183
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Canada: New Brunswick	88-001189
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88-003559	88-001726
Canada: New Brunswick: Bay of Fundy	88-001773
88-004837	88-001785
Canada: New Brunswick: Manzer Brook	88-001847
88-004780	88-002089
Canada: Newfoundland	88-002094
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88-001652	88-002161
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88-004447	88-003571
88-004704	88-003974
88-004740	88-004405
88-004992	88-004677
Canada: Newfoundland: Ikarut River	88-004758
88-002901	88-004773
Canada: Newfoundland: Red Indian Lake	88-004902
88-004968	Canada: Ontario: Abitibi R
Canada: Newfoundland: Western Arm Brook	88-000608
88-005225	Canada: Ontario: Bay of Qu
Canada: Northwest Territories	88-004996
88-003181	Canada: Ontario: Black Cree
88-004826	88-001679
Canada: Northwest Territories: Maguse River	88-002961
88-003064	Canada: Ontario: Chemung La
Canada: Nova Scotia	88-005228
88-000037	Canada: Ontario: Credit Riv
88-000318	88-002961
88-001953	88-003928
88-002093	Canada: Ontario: Duffin Cra
88-002427	88-002315
88-003529	Canada: Ontario: Frederick
88-003540	88-000608
88-004625	Canada: Ontario: Groundhog
Canada: Nova Scotia: Halfway Brook	88-000605
88-004808	Canada: Ontario: Henderson
Canada: Nova Scotia: North River	88-004373
88-004808	Canada: Ontario: Kenogami
Canada: Nova Scotia: Westfield River	88-000617
88-004808	Canada: Ontario: Lake Onta
Canada: Ontario	88-002237
88-000592	Canada: Ontario: Lake Opeo
88-000603	88-003505
88-000604	Canada: Ontario: Lake Simc
88-000605	



Canada: Ontario: Mattagam River	88-000605	88-0
	88-000608	88-0
Canada: Ontario: Meadow Stream	88-002961	88-0
Canada: Ontario: Menitouwadge Lake	88-002103	88-0
Canada: Ontario: Middle Thames River	88-001709	88-0
	88-001837	88-0
	88-004228	Caspian
Canada: Ontario: Mouse River	88-000623	88-0
Canada: Ontario: Nottawasaga River	88-002315	88-0
Canada: Ontario: Savanne Lake	88-001768	Chad
	88-004373	88-0
	88-004452	Chile
Canada: Ontario: St. Clair River	88-004811	88-0
Canada: Ontario: Whitopine Lake	88-002011	88-0
Canada: Quebec	88-000253	88-0
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	88-004505	88-0
	88-004699	88-0
Canada: Quebec: Gatineau Park	88-003030	88-0
Canada: Quebec: Isle Verte	88-004410	88-0
Canada: Quebec: James Bay	88-003900	88-0
Canada: Quebec: Lake St. Pierre	88-004778	China:
Canada: Quebec: Matamek River	88-001731	88-0
Canada: Quebec: Petite Trinite River	88-001835	China:
Canada: Quebec: Riviere a la Truite	88-001731	88-0
Canada: Quebec: Saint-Laurent River	88-000588	China:
Canada: Quebec: St. Lawrence River	88-003554	88-0
	88-003950	Colomb
	88-004382	88-0
Canada: Quebec: Tabusintac River	88-000721	Colomb
Canada: Saskatchewan: Red Deer River	88-003592	88-0
Canada: Ungava Bay	88-004275	Colomb
Canada: West Arm Brook	88-004350	88-0
Canary Islands	88-001900	88-0
	88-002952	88-0
	88-002964	88-0
Caribbean Area	88-000867	Colora
	88-001152	88-0
		Colo

Colorado: Elevenmile Canyon Reservoir	88-005146	East Germany: Lausitz	88-003231
Colorado: Green River	88-003901	Easter Island	88-004535
Colorado: Parvin Lake	88-002182	Ecuador	88-000112
Colorado: Yampa River	88-003901	Egypt	88-002066
Connecticut	88-001000		88-002067
	88-003071		88-002068
Connecticut: Black Rock Harbor	88-003305		88-002069
Connecticut: Connecticut River	88-004351	Egypt: Lake Mariut	88-002030
	88-004355	England	88-002175
Connecticut: Sandy Brook	88-004070		88-002430
Connecticut: Shetucket River	88-002326		88-004455
Costa Rica	88-001316		88-004524
	88-001360		88-005108
	88-001880	England: Blithe River	88-005144
	88-002801		88-003560
	88-003128	England: Bristol Channel	88-003009
	88-003149	England: Cumbria County	88-001827
	88-004487	England: Derwent River	88-003586
Costa Rica: Lake Arenal	88-005075	England: East Stour River	88-002002
Costa Rica: Nicoya Gulf	88-003754	England: Exe River	88-003601
Costa Rica: Pochote Estuary	88-005163		88-004472
Cuba	88-004080	England: Lake Windermere	88-003533
	88-004561	England: Norfolk Broad	88-003788
	88-004701	England: River Perry	88-004952
Czechoslovakia	88-001249	England: Severn Estuary	88-003009
	88-003097	England: Severn River	88-000661
	88-003733		88-004411
	88-005152	England: Slapton Ley	88-001775
Czechoslovakia: Dyje River	88-005151	Ethiopia: Lake Awasa	88-001818
Czechoslovakia: Jihlava River	88-002037		88-002854
Czechoslovakia: Macha Lake	88-004703	Europe	88-000001
Czechoslovakia: Musov Reservoir	88-004083		88-002004
Czechoslovakia: Oslava River	88-002191		88-003104
Czechoslovakia: Podhora Reservoir	88-004757		88-003642
Czechoslovakia: Stanovice Reservoir	88-005150		88-003699
Danube River and Basin	88-004151		88-004499
	88-004167		88-004893
Delaware: Delaware River Estuary	88-001041	Europe, Northern	88-000471
Denmark	88-002324		88-001276
East Africa: Lake Victoria	88-000465		88-002077
East China Sea and Area			88-002636
			88-003244
			88-003249
			88-003256
			88-003296

Fiji Islands	88-000895	88-004
Finland	88-001192	88-004
	88-001199	88-003
	88-001772	88-003
	88-002022	Florida:
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	88-003500	Florida:
	88-003677	88-002
	88-004263	Florida:
	88-004858	88-000
	88-004868	Florida:
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	88-004910	Florida:
	88-004946	88-003
	88-004955	Florida:
Finland, Northern	88-004820	88-003
Finland: Bothnian Bay	88-004130	Florida:
	88-004461	88-003
Finland: Lake Iso Tenhetty	88-002865	France
Finland: Lake Kallavesi	88-003238	88-000
Finland: Lake Kernaalanjarvi	88-004847	88-000
Finland: Lake Paljanne	88-002865	88-000
Finland: Lake Passivesi	88-001762	88-000
Finland: Lake Saama	88-004812	France:
Finland: Tervajoki River	88-004847	88-000
Florida	88-000363	France:
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Florida, Eastcentral	88-002858	88-000
Florida, Northcentral	88-002187	France:
Florida, Southwestern	88-003006	88-000
Florida: Apalachee Bay	88-004549	French C
Florida: Chipola River		88-000

Georgia	88-000276	Great Lakes	88-003301
	88-002366		88-003389
	88-003095		88-003446
Georgia: Clarks Hill Reservoir	88-000649		88-003447
Georgia: Flint River	88-003428		88-003449
	88-003428		88-003456
Georgia: Hartwell Reservoir	88-000641		88-003480
	88-000641		88-003482
Georgia: Lake Oconee	88-002375		88-003488
	88-004421		88-003497
	88-005235		88-003534
Georgia: Lake Seminole	88-005097		88-003538
	88-003792		88-003539
Georgia: Okefenokee Swamp	88-002327		88-003542
	88-003400		88-003960
Georgia: Savannah River	88-004531		88-004177
	88-004531		88-004184
Georgia: Tallapoosa River	88-000538		88-004321
	88-000639		88-004354
Georgia: West Point Lake	88-001621		88-004433
	88-000846		88-004443
Great Britain	88-003422		88-004520
	88-004353		88-004588
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	88-005129		88-004771
	88-005176		88-004776
Ghana: Volta Basin	88-004372		88-004786
	88-005082		88-004802
Great Britain: Main Lake	88-005082		88-004816
	88-004372		88-004832
Great Britain: St. Peters Lake	88-005082		88-004938
	88-000987		88-004942
Great Lakes	88-000995		88-004961
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	88-002134		88-005102
	88-002170	Greece	88-000379
	88-002216		88-000850
	88-002265		88-001626
	88-002266		88-003054
	88-002268		88-004501
	88-002272	Greece: Lake Mikri Pres	88-000463
	88-002273		88-004584
	88-002274	Greece: Lake Volvi	88-002904
	88-002275		88-002904
	88-002277	Greece: Rentina Stream	88-003022
	88-002294		88-003022
		Greenland	88-002930
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		Guam	88-000497
		Gulf of Mexico	88-000165
			88-000185

88-000906	Hungary:
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Haiti	Idaho: Sa
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Hawaii	88-00
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88-000716	Idaho: Sp
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88-003740	88-00
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88-004160	88-00
88-004416	Illinois:
88-005201	88-00
Hawaii: Hanawi Stream	Illinois:
88-004319	88-00
Hawaii: Kailua-Kona	Illinois:
88-001830	88-00
Hawaii: Kaneohe Bay	Illinois:
88-004115	88-00
88-004408	88-00
88-004685	88-00
Hawaii: Kona Coast	India
88-002953	88-00
Hong Kong	88-00
88-000118	88-00
88-001008	88-00
Hungary	88-00
88-000136	88-00

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India  
88-004368  
88-004378  
88-004387  
88-004388  
88-004394  
88-004459  
88-004473  
88-004476  
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88-004483  
88-004546  
88-004571  
88-004626  
88-004674  
88-005187  
88-005194  
88-005199  
India: Alaknanda River  
88-002920  
India: Bombay: Sasoon Dock  
88-001990  
India: Brahmaputra River  
88-004469  
India: Dal Lake  
88-003956  
India: Garhwal Himalayas  
88-003123  
88-003209  
India: Gobindsagar Lake  
88-004667  
India: Govindgarh Lake  
88-004481  
India: Gulf of Mannar  
88-004507  
India: Husainsagar Lake  
88-000830  
88-004839  
India: Jhelum River  
88-004119  
India: Khoh River  
88-003210  
India: Minicoy Atoll  
88-004326  
India: Nagarjunasagar Reservoir  
88-004331  
India: Nayar River  
88-001966  
88-002920  
88-003208  
88-003210  
Indian Ocean  
88-000350  
85-031070  
88-001072  
88-001853  
88-002419  
88-002423  
88-003100  
88-003151  
88-004309  
88-004320  
88-004326

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Indian Ocean  
88-005069  
88-005173  
88-005186  
88-005187  
Indian Ocean: Lena Bank  
88-002927  
Indian Ocean: North Aust  
88-000686  
Indian Ocean: Ob Bank  
88-002927  
Indian Ocean: Straft of  
88-004718  
Indiana  
88-004444  
88-004493  
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88-004546  
Indonesia  
88-000071  
88-000542  
88-000952  
88-001032  
88-002149  
88-004730  
88-004947  
88-005180  
88-005190  
88-005208  
Iowa  
88-002334  
Iowa: Big Creek  
88-004748  
Iowa: Boone County  
88-005145  
Iowa: Lake Rathbun  
88-001872  
Iowa: Maquoketa River  
88-000891  
Iowa: Pillsbury Creek  
88-003594  
Iraq  
88-002539  
88-003160  
88-003258  
88-003726  
Iraq: Al-Hammam Marsh  
88-004271  
Iraq: Diyala River  
88-001906  
Iraq: Euphrates River  
88-003797  
Ireland  
88-000397  
88-000787  
88-001862  
88-003877  
Ireland: Courtmacsherry  
88-004431  
Ireland: Killarney Lake  
88-001643  
Ireland: Lough Hyne  
88-005162  
Ireland: Owenbohen Str

88-003735  
88-003959  
88-004398  
Israel: Gulf of Aqaba  
88-000620  
Israel: Lake Kinneret  
88-000191  
88-003141  
Italy  
88-000870  
88-000935  
88-001908  
88-001932  
88-001934  
88-002586  
88-003180  
88-003742  
88-003746  
88-003811  
Italy: Comacchio Estuary  
88-004984  
Italy: Viola Torrent  
88-003550  
Jamaica  
88-002406  
Japan  
88-000098  
88-000478  
88-000635  
88-000724  
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88-002919	89-002262
Kansas	88-002278
88-000688	88-002783
88-000696	88-003018
88-000960	88-003019
88-002395	88-003476
88-005037	88-003490
88-005038	88-004030
Kansas: Kings Creek	88-004460
88-003564	88-004489
88-005118	88-004583
Kansas: Lake Redding	88-005031
88-002290	88-005089
Kansas: Lovewell Reservoir	Lake Huron
88-002391	88-000633
Kansas: Melvern Reservoir	88-001698
88-000189	88-003131
Kansas: Rock Creek	88-003453
88-001634	88-003518
Kansas: Tuttle Creek Lake	88-004429
88-004714	88-004435
Kentucky	88-004580
88-003557	88-004658
88-004493	88-004695
Kentucky, Central	88-004722
88-003059	88-005074
Kentucky: Bullitt County	88-005077
88-003402	88-005083
Kentucky: Caney Creek	88-005085
88-004934	88-005098
Kentucky: Green River Lake	Lake Michigan
88-002365	88-000619
Kentucky: Kentucky Lake	88-000810
88-000881	88-000811
Kentucky: Lake Cumberland	88-001817
88-002996	88-002023
88-004983	88-002264
Kentucky: Poor Fork Cumberland River	88-002280
88-004934	88-002282
Kentucky: Right Fork Beaver Creek	88-002293
88-004934	88-002853
Kentucky: Rough River Lake	88-002950
88-002364	88-003024
Kenya	88-003060
88-005047	88-003467
Kenya: Lake Turkana	88-003475
88-004406	88-003487
Kenya: Lake Victoria	88-003518
88-001712	88-003522
88-003068	88-003543
Kenya: Tudor Creek	88-003903
88-003115	88-004100
Kerguelen Archipelago	88-004284
88-003802	88-004303
Kermadec Islands	88-004385
88-003107	88-004432
Korea	88-004434
88-002926	88-004437
Kuwait	88-004438
88-001737	88-004440
88-002206	88-004444
88-002403	88-004458
88-002404	88-004690
88-002451	88-004695
88-002462	88-004721
88-002472	88-004736



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Lake Michigan	Louis
88-005081	88-
88-005086	88-
88-005091	88-
88-005096	88-
Lake Ontario	88-
88-000855	88-
88-000982	Louis
88-001661	88-
88-002276	88-
88-003023	Louis
88-003519	88-
88-003528	88-
88-003537	Louis
88-003698	88-
88-003996	88-
88-004293	88-
88-004414	88-
88-004424	88-
88-004426	Louis
88-004582	88-
88-004652	Louis
88-004653	88-
88-004664	Louis
88-004758	88-
88-004876	Louis
88-004940	88-
88-004996	Louis
88-005080	88-
88-005088	Madaga
88-005092	88-
Lake Superior	Maine
88-000208	88-
88-003237	Maine:
88-003450	88-
88-003473	Maine:
88-003483	88-
88-003520	Maine:
88-004221	88-
88-004288	88-
88-004298	Maine:
88-004337	88-
88-004384	Malawi
88-004400	88-
88-004402	88-
88-004417	88-
88-004428	88-
88-004581	88-
88-004813	Malays
88-004967	88-
88-005074	88-
88-005094	88-
88-005096	88-
88-005125	88-
88-005126	88-
Latin America	88-
88-000008	88-
88-000867	Malays
Lesser Antilles	88-
88-002401	Malays
88-002410	88-
88-002436	Malays
88-002439	88-
88-002446	Malays
88-002448	88-

88-000611	88-004491
88-000947	88-004555
Maryland: Chesapeake Bay	88-004564
88-000833	Mexico: Bahia San Carlos
88-000897	88-002966
88-001155	Mexico: Baja California
88-001640	88-002431
88-002027	88-002456
88-002498	88-002468
88-003074	88-004404
88-003207	88-004518
88-003266	88-004731
88-003614	88-004790
88-003622	Mexico: Gulf of California
88-004200	88-000560
88-004259	88-001750
88-004775	88-002402
88-004792	88-002435
88-005166	88-002966
Maryland: Choptank River	88-003078
88-004792	88-004286
Maryland: Gunpowder River	88-004328
88-003579	88-004673
Maryland: Patuxent River	Mexico: Lake Patzcuaro
88-005054	88-003161
Massachusetts	Mexico: Rio Aneca
88-000854	88-003152
88-004113	Mexico: Rio Coy
Massachusetts: Deerfield River	88-002943
88-003544	Michigan
Massachusetts: New Bedford Harbor	88-000002
88-003239	88-000042
88-003305	88-002567
Mediterranean Region	88-002615
88-000461	88-004100
88-000672	88-004298
88-001383	Michigan: Au Sable River
88-001814	88-002211
88-001846	Michigan: Detroit River
88-001850	88-004550
88-001900	88-004715
88-001962	88-004816
88-002040	Michigan: Ford River
88-003054	88-004587
88-003089	Michigan: Gull Island
88-003124	88-003903
88-003257	Michigan: Lake St. Clair
88-003295	88-003019
88-003352	88-004538
88-003746	Michigan: Lawrence Lake
88-003823	88-004269
88-004500	Michigan: Monroe County
88-004501	88-004842
88-004506	Michigan: Mud Lake
88-004702	88-004753
88-004884	Michigan: Paul Lake
88-004903	88-000651
88-005022	Michigan: Peter Lake
88-005040	88-000651
88-005041	Michigan: Raisin River
88-005157	88-004842
Mexico	Michigan: Red Cedar River
88-000486	88-002304
88-000918	Michigan: Rouge River
88-001137	88-004716
88-002411	Michigan: Saqinaw River

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Michigan: Tuesday Lake  
 88-005011  
 Minnesota  
 88-000002  
 Minnesota: Gould Creek  
 88-003075  
 Minnesota: Lake Bemidji  
 88-003527  
 Minnesota: Lake of the Woods  
 88-005023  
 Minnesota: Mississippi River  
 88-005122  
 Minnesota: Voyageurs Natl. Park  
 88-001763  
 Mississippi  
 88-000130  
 88-000493  
 88-000859  
 88-000977  
 88-001252  
 88-001844  
 88-002349  
 88-003724  
 Mississippi: Northeastern  
 88-003424  
 Mississippi: Bluff Lake  
 88-003531  
 Mississippi: Clark Creek  
 88-002911  
 Mississippi: Horn Island  
 88-003134  
 Mississippi: Little Tallahatchie River  
 88-001754  
 Mississippi: Muddy Creek  
 88-003566  
 Mississippi: Noxubee River  
 88-001856  
 Mississippi: Otoucalofa Creek  
 88-001857  
 Mississippi: Tombigbee River  
 88-001778  
 Mississippi: Wilkinson County  
 88-002911  
 Missouri  
 88-002222  
 88-003459  
 88-003587  
 88-003588  
 88-004175  
 Missouri River and Basin  
 88-002169  
 88-002171  
 88-002173  
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 88-002311  
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Nevada: Lake Fontaine	88-001766	New Zealand:	88-003812
Nevada: Manse Spring	88-001384	New Zealand:	88-004238
Nevada: Truckee River	88-005121	New Zealand: Ashley River	88-004238
Nevada: Virgin River	88-002505	New Zealand: Canterbury Right	88-003219
	88-002680	New Zealand: North Cape	88-003122
	88-003058	New Zealand: Poor Knights Isl	88-005171
New Hampshire	88-001000	New Zealand: Rakata River	88-001777
New Hampshire: Hubbard Brook	88-005131		88-001799
New Jersey	88-000626		88-004238
	88-003324		88-004370
	88-003790	New Zealand: Tasman Bay	88-003219
	88-004860	New Zealand: Tauranga	88-002923
New Jersey: Delaware River	88-003111	New Zealand: Waikato River	88-004229
New Jersey: Delaware River Estuary	88-001041	New Zealand: Waitaki Lakes	88-003088
New Jersey: Success Lake	88-005029	New Zealand: Waitaki River	88-003472
New Mexico	88-003591	Niger River and Basin	88-004521
	88-004260	Niger: Niger River	88-002544
New Mexico: Rio de las Vacas	88-004948	Nigeria	88-000548
	88-005138		88-001912
New Mexico: Rio Grande River	88-002221		88-001983
New York	88-000988		88-003570
	88-002245		88-003583
	88-005112		88-003757
New York: Adirondack Mountains	88-003251		88-004521
New York: Boquet River	88-002210		88-004682
New York: Buffalo River	88-004874	Nigeria: Cross River	88-005141
New York: Erie Canal	88-004318	Nigeria: Cross River Estuary	88-001911
New York: Hudson River	88-000596	Nigeria: Ikpoba River	88-003127
	88-002189	Nigeria: Oba Dam Reservoir	88-003855
	88-003031	Nigeria: Ogun River	88-000229
New York: Oneida Lake	88-004640		88-005105
New York: Suffolk County	88-004227	North America	88-000566
New York: Susquehanna River	88-001848		88-000924
New Zealand	88-000521		88-002183
	88-000656		88-004578
	88-000692		88-004752
	88-000782	North Carolina	88-000088
	88-000925		88-001042
	88-001329		88-002028
	88-001347		88-002308
	88-001783		88-003095
	88-001804		88-003548
	88-001806		88-004624
	88-002613		88-004949
		North Carolina, Western	

North Carolina: Hyde Reservoir	88-
88-000653	88-
North Carolina: Lake Ellis Simon	88-
88-003530	88-
North Carolina: Lake Norman	88-
88-002387	88-
88-002388	88-
88-002499	88-
North Carolina: Neuse River	Ohio:
88-003427	88-
North Carolina: New Hope Creek	Ohio:
88-002336	88-
North Carolina: New River	Ohio:
88-002316	88-
North Carolina: Tar River	Ohio:
88-002303	88-
North Carolina: Tennessee River	Ohio:
88-003581	88-
North Dakota	Ohio:
88-002089	88-
88-003793	Ohio:
North Dakota: Lake Sakakawea	88-
88-002992	Ohio:
North Sea	88-
88-005007	Ohio:
Northern Ireland: Bush River	88-
88-003132	Ohio:
Norway	88-
88-001238	Ohio:
88-001239	88-
88-002511	Ohio:
88-002718	88-
88-002784	Ohio:
88-002873	88-
88-002928	Ohio:
88-003035	88-
88-003616	Ohio:
88-003844	88-
88-003871	Oklah
88-004383	88-
88-004525	88-
88-004635	88-
88-004661	88-
88-004760	Oklah
88-004970	88-
88-004973	Oklah
Norway: Glomma River	88-
88-001015	88-
Norway: Hengselva River	Oklah
88-004249	88-
Norway: Insa River	88-
88-001219	Oklah
88-004971	88-
Norway: Lagen River	Oklah
88-001015	88-
Norway: Lake Kvernavatn	Oklah
88-004257	88-
Norway: Lake Kvernavatnet	Oklah
88-003701	88-
Norway: Lake Takvatn	Oklah
88-001229	88-
Norway: Orkla River Estuary	Oklah
88-003704	88-
Norway: Surna River	Oklah
88-003700	88-
Norway: Tinnelva River	Oklah
88-001015	88-

88-0J3846	88-000488
Oregon	88-000547
88-C01166	88-000557
88-001305	88-000591
88-001789	88-000625
88-002500	88-001237
88-003005	88-001350
88-003155	88-001460
88-003495	88-001461
88-003496	88-001468
88-003532	88-001789
88-C03708	88-001816
88-003711	88-001981
88-004517	88-002166
88-005143	88-002234
Oregon, Southeastern	88-002254
88-003551	88-002333
Oregon, Western	88-002460
88-002982	88-002572
Oregon: Columbia River	88-002857
88-001805	88-002880
88-001809	88-002917
88-003190	88-002926
Oregon: Columbia River Basin	88-002936
88-C04999	88-002954
Oregon: Deer Creek	88-002977
88-003265	88-003005
Oregon: Deschutes River	88-003010
88-003814	88-003036
Oregon: Flynn Creek	88-003041
88-003265	88-003065
Oregon: Mack Creek	88-003087
88-004943	88-003413
Oregon: Needle Branch	88-003619
88-003265	88-004043
Oregon: Willamette River	88-004050
88-000817	88-004203
88-002642	88-004252
Pacific Ocean	88-004305
88-000647	88-004377
88-000652	88-004404
88-000679	88-004441
88-000868	88-004490
88-001040	88-004491
88-001165	88-004494
88-001646	88-004517
88-001738	88-004518
88-001865	88-004577
88-001964	88-004654
88-002413	88-004655
88-002414	88-004675
88-002431	88-004731
88-002456	88-004956
88-002458	88-004957
88-002468	88-005062
88-002480	88-005072
88-002486	88-005192
88-002612	88-005195
88-002925	88-005197
88-002953	88-005203
88-003153	88-005205
88-003240	Pacific Ocean, Northeast
88-004358	88-002432
88-004487	Pacific Ocean, Northwest
Pacific Ocean, Eastern	88-000576
88-001867	Pacific Ocean, South
88-001867	88-000275

88-004568	Persian Gulf
88-004662	88-001737
88-005210	88-001798
Pacific Ocean, South: Naska Ridge	88-001841
88-002578	88-002206
Pacific Ocean, South: Nazca Ridge	88-002403
88-001676	88-002404
Pacific Ocean, South: Sala y Gomez Ridge	88-002434
88-001676	88-002451
Pacific Ocean, Southeastern	88-002462
88-003150	88-002472
88-004498	88-002473
Pacific Ocean, Southwestern	Peru
88-004565	88-000652
Pacific Ocean, Western	88-001452
88-004492	88-001887
88-004508	88-004707
Pacific Ocean: Galapagos Rift	Peru: Lake Titicaca
88-003236	88-004638
Pacific Ocean: Johnston Atoll	88-005104
88-001690	Philippines
Pacific Ocean: Okhotsk Sea	88-000069
88-001620	88-000128
88-001760	88-001196
88-004528	88-001245
Panama	88-001890
88-000503	88-001891
88-000677	88-002571
88-003025	88-003721
88-003695	88-003723
88-004504	88-005168
Panama: Limbo River	88-005189
88-002962	Philippines: Apo Isla
Panama: Sabalo River	88-003617
88-001843	Philippines: Aya Reser
Papua New Guinea	88-000009
88-002269	Philippines: Laguna de
Papua New Guinea: Lake Murray	88-000009
88-000175	88-001927
Papua New Guinea: Sepik River	Philippines: Laguna La
88-000546	88-002285
88-003920	Poland
Paraguay	88-001262
88-000707	88-002281
88-003148	88-004672
88-004698	88-004900
Pennsylvania	Poland: Lake Dabie
88-004450	88-004636
Pennsylvania: Brandywine Creek	Poland: Lake Dgal Wiel
88-002019	88-003217
Pennsylvania: Cambria County	Poland: Lake Warniak
88-000838	88-003217
Pennsylvania: Delaware River	Poland: Lake Zarnowick
88-003111	88-002298
88-004046	88-002299
Pennsylvania: East Branch Perkiomen Creek	Poland: Lesnica Creek
88-002332	88-003042
Pennsylvania: Mercer County	Poland: Niedziczanka Cr
88-003517	88-003042
Pennsylvania: Perkiomen Creek	Poland: Pierzchaly Rese
88-002332	88-001807
Pennsylvania: Schuylkill River	Portugal
88-002332	88-001907
Pennsylvania: Spring Creek	88-001958
88-000834	88-001965
Pennsylvania: Susquehanna River	88-003261

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Portugal

88-004485

88-004534

88-005159

Puerto Rico

88-000667

88-000922

88-001360

88-002401

88-003040

88-003220

Red Sea and Area

88-001701

88-001864

88-001876

88-001877

88-001878

88-001884

88-003179

88-003959

88-004398

88-004871

Rhine River and Basin

88-004720

Rhode Island

88-000238

88-000662

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Spain: Rio Pontevedra	88-005115	Tenne
Spain: Tenes River	88-003357	Tenne
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88-002458  
Nets/Seines  
88-003677  
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88-000935  
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88-002200  
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88-004993  
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	88-004188	88-001649
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	88-004285	88-001844
	88-004409	88-002053
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	88-000459	88-002893
	88-000464	88-002898
	88-001647	88-002900
	88-002921	88-002905
	88-003801	88-002909
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	88-001630	88-002917
	88-001651	88-002923
	88-002914	88-002928
	88-004170	88-002930
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	88-001650	88-004191
	88-002910	88-004194
	88-002932	88-004200
	88-003284	88-004202
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	88-000474	88-002934
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	88-004212	88-002713
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	88-001638	88-002909
	88-002629	88-002915
	88-002629	88-002928
	88-002943	88-003287
	88-002987	88-004168
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	88-000462	88-004182
	88-000479	88-004194
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	88-004205	88-004200
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	88-000460	88-001538
	88-000487	88-001621
	88-001226	88-001630
	88-001635	88-002893
	88-001639	88-002939
	88-001640	88-002941
	88-001645	88-003128
	88-002895	88-003502
	88-004089	88-003803
	88-004168	88-004005
	88-004174	88-004165
	88-004190	88-004167
	88-004212	88-004175
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	88-000464	88-004199
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	88-001639	



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	88-002929	88-004177
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		88-004191
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	88-005130	88-001633
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		88-001531
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	88-004179	88-001622
		88-001628
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	88-000472	88-002905
	88-000567	88-002913
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	88-002910	88-000120
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	88-000466	88-000463
	88-001636	88-000469
	88-001649	88-000478
	88-002892	88-000483
	88-002926	88-000484
	88-002937	88-001396
	88-003811	88-001426
	88-004164	88-001626
	88-004166	88-001631
	88-004168	88-001634
	88-004176	88-001641
	88-004191	88-001652
	88-004193	88-001667
	88-004204	88-002256
	88-004216	88-002392
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	88-004210	88-002896
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	88-001639	88-002904
	88-004188	88-002908
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	88-001644	88-002911
	88-002053	88-002919
	88-002073	88-002921
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	88-001638	88-002938
	88-002900	88-002943
	88-002931	88-003957
	88-002941	88-004173
	88-004177	88-004185
	88-004179	88-004187

88-002713	88-002932
88-004617	88-002934
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88-000473	Polymorphism
88-004202	88-001226
88-004204	88-002932
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88-000481	88-004171
88-001630	88-004196
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88-002586	88-000488
88-004170	88-001622
88-004186	88-001844
88-004206	88-002901
88-004208	88-002906
88-004209	88-002922
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88-004199	88-002942
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88-000470	88-002921
88-001632	88-002924
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88-002940	88-004169
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88-002381	88-002929
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88-002913	88-004029
88-002923	RNA
88-002939	88-004089
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88-000465	88-000475
Movements	Sex Determination
88-003502	88-000461
Mutagens	Sex Ratios
88-002101	88-000479
88-003284	Sex Reversal
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88-002918	Spawning Migration
Nervous System	88-004198
88-001538	Speciation
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88-002981	

88-004167	88-004167
88-004511	88-004167
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88-000485	88-004175
88-002931	88-004178
88-004195	88-004181
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88-002936	88-004191
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88-004180	88-000889
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88-004197	88-003407
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88-004190	Breakwaters
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88-000460	Canals
88-001524	88-003399
88-001621	88-004932
88-001629	88-004953
88-001638	88-005136
88-001642	Channelization
88-001643	88-002169
88-001646	88-002171
88-001649	88-002174
88-001650	88-002175
88-002609	88-002301
88-002629	88-002314
88-002692	88-003402
88-002896	88-003566
88-002897	88-003594
88-002912	88-004933
88-002915	88-004934
88-002917	88-004951
88-002924	88-004952
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88-002930	88-001027
88-002932	88-002302
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88-003013	88-000884
88-003023	88-000885

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 88-002346  
 88-002933  
 88-002995  
 88-002999  
 88-003127  
 88-003432  
 88-003558  
 88-003563  
 88-003570  
 88-003582  
 88-003592  
 88-004936  
 88-004937  
 88-004939  
 88-004954  
 88-005107  
 88-005114  
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88-002301  
 88-002331  
 88-004930  
 88-004953

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88-002020  
 88-003402  
 88-004941  
 88-004946

## Energy Development

88-002169  
 88-002171  
 88-002173  
 88-002174  
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 88-002338  
 88-002340  
 88-002343

## Erosion Control

88-000889  
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 88-004950  
 88-005118

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88-000981  
 88-004942

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88-000888

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88-002457  
 88-004896

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88-000831  
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 88-003408  
 88-003434  
 88-003546  
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 88-003402  
 88-003403  
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88-000585

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## General

88-005110  
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 88-005141

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88-004948  
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## Heat Exchangers

88-004393

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88-000883  
 88-003408  
 88-004936  
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 88-005114  
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88-000890

## Impoundment

88-003567  
 88-004945  
 88-005114  
 88-005135

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88-002571  
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88-003265  
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 88-003403

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88-003517  
 88-003629  
 88-004750

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88-005038

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88-004944  
 88-004953

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88-005122

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88-003642

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88-003547

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88-000655  
 88-002286  
 88-004393  
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88-005124	88-003585
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88-003547	88-005147
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88-003407	88-000884
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88-000883	Watershed Management
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88-005190	Anemones
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88-004938	88-001289
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Pandalus borealis	88-003795
88-001800	Chemical
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88-001969	Chlorophyll
88-001977	88-001303
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88-002462	Currents
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88-002007	Eutrophication
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88-003053	88-003537
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88-002019	General
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88-002169	88-002539
88-002171	General/Antarctica: Or
88-002173	88-000176
88-002174	Great Lakes
88-002312	88-002266
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88-002173	88-005098
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88-001717	88-003387
88-001798	Hydrology
88-002300	88-000865
88-002336	Microbial Communities
88-002462	88-003789
88-002991	Modeling
88-003053	88-002271
88-003056	Morphometry
88-003059	88-001303
88-003627	Nitrogen
88-003832	88-004761
88-004257	Nutrient Cycling
88-004265	88-001242
88-004422	Nutrients
88-004439	88-003788
88-004445	Organic Matter
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88-004460	88-001242
88-005093	Paleolimnology
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88-002327	Phosphorus
88-005147	88-001242
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88-001800	Physical
88-002462	88-003791
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88-002171	88-003537
88-002173	88-003741
88-002174	Remote Sensing
88-002312	88-003791
Trophic Relationships	Sediments
88-002321	88-002278

88-000176	Estuary
Water Classification	88-003610
88-000172	88-003611
Water Level	General/San Francisco
88-000175	88-003608
Water Quality	General/Scotland: Tay
88-000172	88-001039
Wetlands	General/Spain
88-003793	88-001037
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89-002539	88-000896
89-002574	88-000892
88-003788	88-003606
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Abundance/Factors of	88-00:953
88-003612	89-005182
88-004525	Habitat Evaluation
88-005165	88-003615
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88-001038	88-004949
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88-005157	Optimum Sustainable Y
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88-003608	Planning
88-005157	88-003606
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89-002398	88-003248
88-002400	88-003266
88-003006	88-004775
88-003613	88-004810
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88-005167	88-002217
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88-002399	88-003607
General/California	88-004362
88-001040	88-005156
General/Chesapeake Bay	88-005161
88-003074	88-005163
88-003266	88-005164
88-003614	88-005165
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88-005166	88-003609
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88-001038	88-001037
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88-005158	88-003606
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88-004037		88-002138
88-004057		88-002145
88-005157		88-002147
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88-003672		88-002160
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88-003135		88-002163
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88-004984		88-002237
Trophic Relationships		88-002243
88-003071		88-002244
88-005161		88-002489
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88-004761		88-003388
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Access		88-004884
88-002138		88-004889
Administration		88-004892
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88-002146		88-004903
88-002158		88-004904
88-003387		88-004907
88-004926		88-004908
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88-000875		88-004910
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Anglers		88-004913
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88-002164		88-004920
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88-002136		88-005022
88-002141		Exotic Species
88-002146		88-000871
88-002158		88-000878
88-002159		88-002194
88-002168		Exploitation Rates
88-002428		88-002219
88-002452		88-004894
88-002478		88-004901
88-002487		88-004906
88-002495		Fee Fishing
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88-004896		Fertilization/Soft and
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88-003386		Fish Kills
Catch Per Unit Effort		88-003436
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Channelization		88-002139
88-002175		88-002143
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88-002137		Fishing Tournaments
88-002179		88-002142
88-003388		Flotsam
88-004897		88-002428
88-004898		88-002495
88-004900		Funding
88-004911		88-002149
88-004915		88-004883
88-005003		88-004911
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88-003391		



General	Habitat Protection
88-002148	88-004944
88-003395	Habitat Rating System
88-004895	88-000862
88-004902	88-000863
88-004905	88-003382
88-004917	88-003383
General/Africa	Harvest
88-000869	88-002219
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88-000868	Indian Treaty Rights
General/Baltic Sea	88-000879
88-003389	Japan
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88-003387	Jurisdiction
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88-000867	88-003390
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88-001859	Law Enforcement
General/Great Lakes	88-004906
88-003389	88-004909
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88-002149	Legislation
General/Indonesia	88-004908
88-002149	License Sales
General/Italy	88-002138
88-000870	Liming
General/Japan	88-002571
88-002194	Mitigation
General/Latin America	88-004928
88-000867	Modeling
General/Morocco	88-002219
88-002149	88-003386
General/Pacific Ocean	88-003513
88-000868	88-003792
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88-000866	88-000874
General/Thailand	88-004886
88-002149	Multiple Use
General/United States	88-002152
88-002014	Nonconsumptive Users
88-002136	88-004892
88-002146	Nursery Areas
Habitat Alterations	88-004896
88-002159	Nutrients
88-002168	88-003792
88-002175	Phytoplankton
88-002428	88-000880
88-002452	Planning
88-002478	88-002149
88-002487	88-002165
88-002495	88-003390
88-004928	Population Studies
Habitat Evaluation	88-001241
88-000862	88-001844
88-000863	88-001859
88-000864	88-002175
88-002014	88-002905
88-002159	88-003128
88-002175	88-004353
88-002452	Predator/Prey Relations
88-002487	88-003130
88-003259	Production
88-003382	88-003130
88-003382	Recreation
88-003382	Recreation

Management/Research--General

Recreational Benefits

88-002158  
88-002160  
88-002168  
88-002179  
88-002243  
88-003388  
88-004889  
88-004890  
88-004891  
88-004897  
88-004898  
88-004900  
88-004904  
88-004907  
88-004909  
88-004910  
88-004912  
88-004913  
88-004915  
88-004916  
88-004919  
88-005003  
88-005065

Recreational Carrying Capacity

88-004899

Recruitment

88-004356

Regulations

88-002146  
88-004897

Regulations/General

88-002136  
88-002158

Regulations/Size Limits

88-000881  
88-002142

Riparian Habitat

88-000877

Sampling

88-002355

Social Values

88-002144  
88-002145  
88-002150  
88-002152  
88-002153  
88-002155  
88-002162  
88-002163  
88-002179  
88-002296

Stock Assessment

88-001859  
88-002175  
88-002905  
88-004901

Stocking/Introductions

88-001844  
88-002194  
88-003513  
88-003707  
88-004901  
88-004985

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88-000203  
88-002733  
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88-004214  
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88-005056  
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88-003034	88-001371
88-003801	88-001421
88-003804	Olfaction
88-003811	88-001334
88-003822	88-001380
88-003846	88-001405
88-003850	88-003880
88-003858	Operculum
88-003862	88-001356
88-003863	88-002628
88-004491	Otoliths
88-004498	88-000182
88-004531	88-000199
88-004782	88-000207
88-004862	88-000210
88-004865	88-000211
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88-001360	88-001328
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88-001330	88-001343
88-001333	88-001835
88-001357	88-002585
88-001369	88-002587
88-001370	88-002620
88-001387	88-002630
88-001685	88-003087
88-002593	88-003100
88-002612	88-003802
88-002733	88-003814
88-002939	88-003826
88-003799	88-003861
88-003808	88-004467
88-003824	88-004551
88-003862	Pancreas
88-003868	88-002887
88-003966	Paras Smolt Transforma
Mouth Size	88-000225
88-001346	Pharyngeal Teeth
88-001361	88-002614
88-001685	88-003808
88-002593	88-003832
88-002612	88-003850
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88-000183	88-003876
88-001215	88-003966
88-001317	Pharynx
88-001326	88-001318
88-002490	88-001882
88-002599	Phenotypic Correlation
88-002602	88-002595
88-002634	Photophores
88-002637	88-001306
88-003184	Photoreceptors
88-003803	88-001324
88-003822	Pigment Cells
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88-001319	88-001623
88-001336	88-002576
88-001341	88-002583
88-001345	88-002628
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88-001437	88-002928
88-001520	88-004379
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88-003905	88-000200
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88-004862	88-001316
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88-001501	88-003799
88-001780	88-003806
88-003041	88-003809
88-003815	88-003834
88-003851	88-003842
88-003855	88-003856
88-003857	88-003864
88-003874	88-004551
88-004043	88-004554
88-004086	88-004699
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88-002616	88-003853
88-003798	Spiracular Organ
88-003813	88-002577
88-003881	Starvation
88-003993	88-000227
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88-001520	Subcommissural Organ
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88-000182	Survival
88-000205	88-001332
88-001307	Swimbladder
88-001308	88-002591
88-001309	88-002616
88-001344	88-002617
88-002579	88-003881
88-002619	88-005056
88-003141	Swimming Performance
88-003144	88-000194
88-003252	88-002581
88-003800	88-002634
88-003802	88-002637
88-003817	Taste Buds
88-003849	88-001322
88-003869	88-001335
88-003875	88-001336
88-004465	88-001353
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88-002619	88-002598
88-003800	88-003892
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88-002577	88-001336
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88-000202	88-001358
88-000208	88-001380
88-002550	88-001405
88-002576	88-001437
88-002962	88-001520
88-003877	88-002598

88-003141	88-004531
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88-003652	88-005225
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88-003850	88-000212
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88-003850	88-003153
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88-003824	88-003842
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88-002596	88-000223
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88-002624	88-001376
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88-003243	88-001436
88-003302	88-001437
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88-001313	88-003891
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88-001350	88-000221
88-001351	88-003805
88-001354	Natural History
88-001361	Abundance/Factors of
88-001362	88-000704
88-001363	88-001756
88-001364	88-001765
88-001370	88-001853
88-001643	88-002280
88-001889	88-002292
88-001903	88-002438
88-002582	88-003023
88-002583	88-003130
88-002590	88-004356
88-002594	Age/Growth
88-002595	88-001346
88-002605	88-001756
88-002606	88-001831
88-002609	88-002438
88-002612	88-004473
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88-002629	88-002438
88-002920	Bioenergetics
88-002927	88-003004
88-002928	Biogeography
88-002987	88-001868
88-002994	88-003121
88-003034	88-004203
88-003141	88-004512
88-003144	88-005164
88-003796	Bird Predation
88-003801	88-001695
88-003811	88-001718
88-003827	88-001819
88-003831	88-002974
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88-003850	88-004227
88-003859	88-004426
88-004167	88-004447
	88-004450

88-004789	88-002280
88-005226	88-003040
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88-002292	88-004301
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88-004222	88-004334
88-004415	88-004486
88-004418	88-004574
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88-001831	88-005132
88-004416	88-005178
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88-000702	88-005174
88-001620	Interspecies Relations
88-001676	88-005082
88-001784	Larval Behavior
88-001853	88-000575
88-001868	88-001765
88-001888	88-004416
88-003121	Larval Drift
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88-004574	88-001792
88-004985	88-002430
88-005164	88-004416
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88-004574	88-000564
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88-005188	88-001879
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88-003040	88-004334
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88-000565	88-005163
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88-003502	88-000578
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88-001868	88-000613
88-003502	88-000615
88-004387	88-000628
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88-001758	88-002432
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88-001797	88-003023
88-001810	Predator/Prey Relations
88-002280	88-000650
88-002292	88-002280
88-005004	88-002300
88-005082	88-002300

Recruitment	Oceanography
88-000575	Currents
88-000587	88-001620
88-000615	88-002430
88-000628	88-002572
88-000702	General
88-001118	88-000171
88-001149	88-000173
88-001756	88-000699
88-001764	88-001304
88-001765	Hypoxia
88-001769	88-003790
88-002432	Ichthyoplankton
88-002449	88-001853
88-003026	88-002434
88-004347	88-002456
88-004350	88-003634
88-004351	Nutrients
88-004354	88-002440
88-004355	Oxygen
88-004356	88-003790
88-004357	88-004512
88-004358	Phytoplankton
88-004360	88-000177
88-004361	88-002430
88-005209	88-003614
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88-004416	88-001765
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88-001780	88-003627
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88-001780	88-002456
Spawning	Satellite Imagery
88-000575	88-005203
88-000629	Secondary Production
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88-001784	88-002468
88-003040	Techniques/Temperature
88-004334	88-005203
88-004387	Temperature
88-004400	88-002435
Spawning Migration	88-002456
88-004945	88-002572
Survival	Zooplankton
88-004347	88-002430
88-004356	88-002468
Taxonomy	88-002573
88-004549	88-002574
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88-000336	Abnormalities
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88-004549	88-003241
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88-000624	88-004651
88-000699	88-004667
	Acanthocephalus anguill
	88-000787

<i>Acanthocephalus anguillae</i>	88-004700	Antibiotics	88-004660
<i>Acanthocephalus lucii</i>	88-000787	<i>Anthobothrium sasooni</i>	88-001990
<i>Acanthocephalus tilapiae</i>	88-004682	Antibiotics	88-003690
<i>Aeromonas</i>	88-000749		88-004611
	88-001935		88-004619
<i>Aeromonas hydrophila</i>	88-000731	Antibiotics	88-004628
	88-000741		88-000737
	88-001924		88-000741
	88-001927		88-000775
	88-002761		88-001924
	88-003167		88-003170
	88-003169		88-004601
	88-003171	Antigens	88-000746
	88-003177		88-000748
	88-004595		88-000750
	88-004615		88-000785
	88-004621		88-000793
<i>Aeromonas salmonicida</i>	88-000233		88-001942
	88-000733		88-004605
	88-000743	Antiviral Agents	88-004643
	88-000745	<i>Aporocotyle simplex</i>	88-003227
	88-000747		88-003227
	88-001915	<i>Argulus canadensis</i>	88-004699
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	88-003165		88-000727
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	88-003170		88-000733
	88-003171		88-000734
	88-003172		88-000735
	88-003173		88-000736
	88-004066		88-000737
	88-004586		88-000738
	88-004599		88-000739
	88-004600		88-000740
	88-004602		88-000741
	88-004603		88-000742
	88-004606		88-000743
	88-004609		88-000744
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<i>Alella tarakhi</i>	88-003219		88-000747
<i>Allocreadium mazoensis</i>	88-000792		88-000748
<i>Arctiphya aneurii</i>	88-004629		88-000749
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<i>Amyloodinium</i>	88-003177		88-000769
<i>Anemia</i>	88-001975		88-001273
<i>Anguillicola</i>	88-001987		88-001278
<i>Anguillicola</i>	88-003212		88-001907
	88-003242		88-001908
<i>Anisakis</i>	88-001916		88-001910
	88-001917		88-001911
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	88-001922		88-001918
	88-001923		88-001919

88-001927	88-004611
88-001928	88-004612
88-001929	88-004613
88-001930	88-004614
88-001931	88-004615
88-001932	88-004616
88-001933	88-004617
88-001934	88-004618
88-001935	88-004619
88-001936	88-004620
88-001937	88-004621
88-001938	Bacterial Gill Disease
88-001939	88-000742
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88-001942	Bacterial Hemorrhagic
88-002565	Septicaemia
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88-002761	Bacterial Kidney Disease
88-002797	88-000746
88-002809	88-001907
88-003164	88-004596
88-003165	88-004598
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88-003173	Bothriocephalus
88-003174	88-002536
88-003175	Bothriocephalus acheltoni
88-003176	88-003247
88-003177	Bothriocephalus gregarti
88-003178	88-004702
88-003179	Bothriocephalus teleostei
88-003180	88-001966
88-003181	88-003208
88-003182	88-003209
88-003183	Bryozoans
88-003184	88-004665
88-003185	Bucephallidae
88-003197	88-001971
88-003341	Caligus tenuifurcatus
88-003689	88-004673
88-003690	Calyptospora funduli
88-003813	88-000762
88-003889	Carcinogens
88-004066	88-002042
88-004579	88-002080
88-004586	88-002083
88-004595	88-002095
88-004596	88-003207
88-004597	88-004794
88-004598	Caryophyllaeidae
88-004599	88-003202
88-004600	Cataracts
88-004601	88-000315
88-004602	Ceratomyxa shasta
88-004603	88-003190
88-004604	88-004631
88-004605	Cestodes
88-004606	88-000773



88-000791	88-004651
88-000800	88-000790
88-000809	88-004677
88-001964	Cytophaga
88-001966	88-004608
88-001988	Dactylogyrids
88-001988	88-004656
88-001990	Dactylopusus
88-002536	88-001996
88-003202	88-004629
88-003205	88-004668
88-003208	Dasyrhynchus talismani
88-003209	88-001964
88-003210	Dawestrema cycloaenclis
88-003231	88-004701
88-003236	Dermal Sarcoma
88-003247	88-004640
88-004663	88-004664
88-004666	88-004816
88-004700	Dermocystidium macroph
88-004702	88-004622
88-004707	Diagnostic Techniques
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88-000766	88-003182
88-000767	88-003185
88-004641	88-003348
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88-003188	88-004613
88-004625	88-004647
Clavella adunca	Dinoflagellates
88-003009	88-003177
Clinostomum complanatum	Diphyllobothrium dendr
88-001978	88-000773
88-003230	88-004666
88-004706	Diphyllobothrium ditre
Clonorchis sinensis	88-000773
88-000796	Diplostomulum
Coccidia	88-004694
88-003191	Diplostomulum scheuring
88-003192	88-004706
Columnaris Disease	Diplostomum
88-002565	88-004657
Contracecum osculatum	88-004706
88-003244	Diplostomum spathaceum
Costia necatrix	88-000807
88-004629	88-003238
Crenatchronema quentheri	88-004695
88-003248	Diplozoon
Crepidostomum farionis	88-001996
88-004706	88-003229
Cristatella mucedo	Disculiceps galapagoens
88-004665	88-003236
Cryptobia	Disease Importation
88-001945	88-004644
88-004637	Disease-Free Culture
Cryptobia salmositica	88-000733
88-002758	Echinocephalus overstr
88-001945	88-003205
Cryptobiosis	Ectoparasites
88-004637	88-000781
Cryptocaryon irritans	88-004699
88-001292	Edema
Cryptocotyle lingua	88-002769
88-000808	Edwardsiella ictaluri
88-001994	88-001936
88-003009	88-003169
	Edwardsiella tarda

Eimeria	88-003191	88-003166
Eimeria sardinae	88-000761	88-003168
Endoparasites	88-001703	88-003170
Enteric Redmouth Disease	88-000734	88-003172
	88-001907	88-003173
	88-001926	88-004599
	88-001931	88-004603
	88-004612	88-004609
Enteric Septicemia of Catfish	88-001936	88-004611
Enterobacteria	88-003176	Gas Bubble Disease
Entodella soleae	88-003223	88-003232
Epidermal Papillomas	88-001989	Gas Supersaturation
	88-000784	88-003228
	88-004659	General
Ergasilidae	88-001963	88-000516
Erythrodermatosis	88-004617	88-000721
Erythromycin	88-005107	88-000722
Escherichia coli	88-004066	88-000723
	88-004606	88-000724
Exotic Species	88-000722	88-000725
Fin Erosion	88-003225	88-000726
Fin Necrosis	88-002059	88-000729
Flavobacterium	88-001920	88-001279
	88-003175	88-001570
Flexibacter	88-003813	88-001906
Flexibacter columnaris	88-002565	88-001909
Formalin	88-000728	88-001912
Fumagillin DCH	88-004628	88-001914
Fundulotrema prolongis	88-004669	88-002098
Fungal Diseases	88-000751	88-003157
	88-001910	88-003159
	88-001943	88-003160
	88-001944	88-003161
	88-001945	88-003163
	88-001973	88-003217
	88-003186	88-003289
	88-004579	88-003747
	88-004623	88-003877
	88-004624	88-004578
Furunculosis	88-000742	88-004584
		88-004585
		88-004587
		88-004589
		88-004591
		88-004593
		88-004864
		General/Australia
		88-003162
		88-004663
		General/Great Lakes
		88-004588
		General/Ireland
		88-005175
		General/Lake Erie
		88-004583
		General/Lake Huron
		88-004580
		General/Lake Ontario
		88-004582
		General/Lake Superior
		88-004581
		General/New Zealand
		88-003162
		General/Yugoslavia
		88-004630

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## Gill Diseases

88-001321  
88-001972  
88-002059  
88-003187  
88-003235

## Gill Hyperplasia

88-003307

## Gill Necrosis

88-003307

## Gill Parasites

88-001985  
88-001991  
88-003158  
88-003187  
88-003219  
88-003234  
88-003813  
88-004590  
88-004626  
88-004656  
88-004701

## Glugea stephani

88-000759

## Goussia

88-003191

## Granulomatosis

88-003203

## Gyrodactylus

88-001910

88-003215

## Gyrodactylus bullatarudis

88-004705

## Gyrodactylus colemanensis

88-004671

## Gyrodactylus gobiensis

88-003214

## Gyrodactylus katharineri

88-004676

## Gyrodactylus kherulensis

88-003231

## Gyrodactylus salaris

88-003222

## Gyrodactylus shulmani

88-003231

## Gyrodactylus stankovici

88-003231

## Helminths

88-001965  
88-002927  
88-003221  
88-003226  
88-004592  
88-004636  
88-004682  
88-004695  
88-004703  
88-004704  
88-004706  
88-004711

## Hemirhamphidae

88-001969

## Hemorrhagic Septicemia

88-003180

88-003182

## Henneeguya ophicephali

88-001950

## Henneeguya salminalicola

88-002981

## Henneeguya suprabranchiae

88-001950

## Henneeguya vovki

88-001950

## Hepatic Carcinomas

88-003293

## Hepatic Lesions

88-004833

## Hepatic Neoplasia

88-003239

88-003291

88-003300

88-003370

88-004664

88-004816

## Hexabothrium appendiculatum

88-000804

88-000805

88-000806

## Histology

88-004632

88-004692

88-004696

## Iltia Disease

88-000485

88-001908

## Iloherellus cyprini

88-004693

## Hyperplasia

88-004640

88-004774

## Hypersensitivity

88-000786

## Hypoechinorhynchus thersites

88-003211

## Hysteroleicitha brasiliensis

88-001969

## Hysterothylacium aduncum

88-001995

88-003246

## Hysterothylacium dollfusii

88-004692

## Ichthyobodo necator

88-003187

88-004635

## Ichthyophonus

88-001973

## Ichthyophthirius multifiliis

88-000754

88-000755

88-004629

88-004638

## Immune Response

88-000322

88-000734

88-000737

88-000748

88-000752

88-000754

88-000770

88-000783

88-000794

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Parasites/Diseases  
Immune Response

88-000808  
88-003167  
88-003173  
88-003185  
88-003189  
88-003889  
88-004066  
88-004595  
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88-004602  
88-004604  
88-004606

Immunization

88-000732  
88-000741  
88-001929  
88-001940  
88-003167  
88-004595

Infectious Hematopoietic

Necrosis

88-003194  
88-003197  
88-003369  
88-004648

Infectious Pancreatic Necrosis

88-000764  
88-000765  
88-000770  
88-000772  
88-001954  
88-001959  
88-001961  
88-003194  
88-003197  
88-003199  
88-004642  
88-004644  
88-004647

Injuries

88-004697

Intestinal Lesions

88-003213  
88-004692

IPN

88-000764  
88-000765  
88-000770  
88-000771  
88-001961  
88-003197

Iridoviridae

88-003198

Kudoa paniformis

88-002491

Kudoa thyrsitis

88-002491

Labratrema minimus

88-001971

Lacistorhynchus tenuis

88-001986

Lamprey Parasitism

88-000789

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Parasites/Diseases

Leeches

88-000763  
88-003234  
88-004712

Lepeophtheirus salmonis

88-000798  
88-001981  
88-004586

Leptocotyle minor

88-000805  
88-000806

Leptorhynchoides theca

88-004651

Lernaenicus affixus

88-003218

Lernaecocera

88-001962

Lernaecocera branchialis

88-003009  
88-004687

Lernanthropinus nemati

88-004673

Lesions

88-001927  
88-001970  
88-003158  
88-004608  
88-004624  
88-004642  
88-004697  
88-004830

Levinsenia rectangularis

88-003234

Ligula intestinalis

88-004711

Liver Cell Carcinomas

88-003274

Liver Lesions

88-003340  
88-004586  
88-004709

Lordosis

88-002566  
88-004689  
88-004769  
88-004793

Lymphocystis

88-001958  
88-004640

Lymphosarcomas

88-000778  
88-003249  
88-004679

Lycocestus parvulus

88-000809

Mebendazole

88-001991

Microcotyle sebastes

88-004710

Microcotyle spinicirrus

88-004683

Microsporidia

88-000759

88-001949	
<i>Nyctobolus heterofilamentatus</i>	<i>Pallidus nagpurensis</i>
88-001950	88-004667
<i>Nyctobolus lintoni</i>	88-004667
88-000753	Pancreas Disease
<i>Nyctobolus neurobius</i>	88-000777
88-002981	88-001980
<i>Nyxosoma cerebralis</i>	Pancreas Diseases
88-003189	88-004709
<i>Nyxosporea</i>	Papillomas
88-000760	88-004664
88-002981	Parasitic Copepods
88-004627	88-000795
88-004693	88-001962
<i>Nyxosporidia</i>	88-001963
88-000753	88-001968
88-001947	88-001979
88-001948	88-001981
88-001950	88-003009
88-001951	88-003218
88-001952	88-003219
88-002491	88-003220
88-003189	88-004658
88-003190	88-004670
88-004631	88-004673
<i>Nasicola hogansii</i>	88-004678
88-000803	88-004680
<i>Nematodes</i>	88-004681
88-000790	88-004687
88-001911	88-004688
88-001983	88-004699
88-001987	Parasitic Isopods
88-001992	88-001993
88-001995	88-004662
88-003205	88-004691
88-003212	Parasitic Molluscs
88-003233	88-001982
88-003240	Paratenuisentis arbigu
88-003242	88-003242
88-003244	Pasteurella piscicida
88-003246	88-001938
88-004650	88-003171
88-004660	88-004607
88-004674	Pennella makaira
88-004677	88-003220
88-004692	Pentastomids
88-004698	88-000779
88-004707	Phyllostomum magnifi
<i>Neobenedenia melleni</i>	88-000782
88-004685	Piscicola salmositica
<i>Neobrachiella robusta</i>	88-000763
88-004688	Pleistophora mirandell
<i>Neoechinorhynchus carpioidi</i>	88-004632
88-003241	Polyonchobothrium arm
<i>Nutritional Diseases</i>	88-003210
88-002566	<i>Pomphorhynchus bulboco</i>
88-004008	88-004706
<i>Obelia longissima</i>	Proliferative Kidney
88-001974	88-000752
<i>Oncorhynchus Masou Virus</i>	88-000756
88-004649	88-001907
<i>Otodistomum</i>	88-001946
88-004661	88-001947
<i>Oxolinic Acid</i>	88-001948
88-001938	88-004622

88-003178	Pseudopandarus aust.
Protozoan Diseases	88-004670
88-000752	Pseudoterranova dec.
88-000753	88-001992
88-000754	88-004660
88-000755	Pseudotuberculosis
88-000756	88-001938
88-000757	Rajonchocotyle emarg.
88-000758	88-000804
88-000759	Raphidascarisoides afr.
88-000760	88-001983
88-000761	Red Mouth Disease
88-000762	88-001908
88-001292	Renibacterium salmon.
88-001907	88-000744
88-001911	88-000745
88-001946	88-001942
88-001947	88-003181
88-001948	88-003185
88-001949	88-004596
88-001951	88-004598
88-001952	88-004613
88-001953	Renticola
88-002981	88-001993
88-003187	Rhabdochona noravect.
88-003188	88-004674
88-003189	Rhabdochona oncorhynch.
88-003190	88-003221
88-003191	Rhabdovirus
88-003192	88-001955
88-004592	88-003194
88-004622	Rhabdovirus olivaceus
88-004625	88-004645
88-004626	88-004646
88-004627	Rhinebothrium devaney.
88-004628	88-003205
88-004629	Rhinergasilus piranhu.
88-004630	88-001963
88-004631	Saddleback Disease
88-004632	88-003177
88-004633	Salmonicola extumescen.
88-004634	88-004658
88-004635	Salmonicola salmoneus
88-004636	88-001979
88-004637	Salmon Louse
88-004638	88-000798
88-004686	Salmonella
88-004693	88-004616
Pseudodactylogyrus	Salmonella arizonae
88-000780	88-001922
88-001910	Saprolegnia
Pseudodactylogyrus anguillae	88-003186
88-001991	Saprolegnia diclina
88-003206	88-000751
Pseudodactylogyrus bini	88-001943
88-001991	88-001944
88-003206	88-004623
Pseudolernaeopodina	Saprolegnia ferax
synaphobranchi	88-004623
88-004680	Saprolegniosis
Pseudomonas	88-000751
88-003177	Sarcotretes
88-003179	88-004681
88-003197	Scale Diseases/Damage
Pseudomonas anguilliseptica	88-004654
88-001278	88-004655

tra mississippiensis	88-004685
000779	88-004697
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004608	88-000780
um Chlorite	88-000782
001968	88-000791
erospora	88-000792
001948	88-000796
004628	88-000803
004672	88-000804
erospora inaequalis	88-000805
001950	88-000806
erospora renicola	88-000807
004634	88-000808
itectus jamundensis	88-001910
004698	88-001911
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001956	88-001969
001960	88-001971
003195	88-001976
003201	88-001977
ptococcus	88-001978
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004597	88-001991
004619	88-001994
ess	88-001996
001915	88-003009
fafurazole	88-003178
004594	88-003206
fonamide	88-003214
000731	88-003215
mb bladder Disease	88-003216
003204	88-003222
004634	88-003223
004672	88-003227
004690	88-003229
ging Lesions	88-003230
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004975	88-004656
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004646	88-004669
rsitina gasterostei	88-004671
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mmulin	88-004676
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eatment	88-004684
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3-000740	88-004694
3-000798	88-004695
3-001929	88-004701
3-001940	88-004705
3-001943	88-004707
3-001949	88-004710
3-001968	Triangula percae
3-001991	88-001951
3-002565	Trichlorfon
3-003169	88-000798
3-003171	88-004784
3-003274	Trichodina
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3-004609	88-004629
3-004611	

<i>Trypanosoma murmanensis</i>	88-004686	88-002797
Trypanosomes	88-004686	88-002809
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	88-004610	88-003171
		88-003180
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	88-000774	88-003183
	88-000776	88-003341
	88-000788	88-004066
	88-000799	88-004604
	88-000802	88-004618
	88-001984	88-004620
	88-001989	88-004621
	88-002042	<i>Vibrio parahaemolyticus</i>
	88-002080	88-003177
	88-002083	<i>Vibrio salmonicida</i>
	88-002095	88-003184
	88-003207	88-004601
	88-003224	88-004605
	88-003239	Vibriosis
	88-003243	88-001918
	88-003274	88-001929
	88-003298	88-001930
	88-003302	88-001933
	88-004640	88-001934
	88-004649	88-001939
	88-004664	88-001940
	88-004679	88-002809
	88-004794	88-003178
<i>Tylodelphys clavata</i>		88-003180
	88-003238	88-003182
<i>Tylodelphys podicipina</i>		88-003183
	88-003238	88-003184
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	88-001927	88-004605
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	88-001977	88-004620
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	88-002797	88-000720
	88-003164	88-000727
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	88-004602	88-000765
	88-004604	88-000766
	88-004607	88-000767
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	88-004639	88-000771
<i>Vestibulogomus cortissa</i>		88-000772
	88-003188	88-001908
<i>Vibrio</i>		88-001913
	88-001273	88-001954
<i>Vibrio anguillarum</i>		88-001955
	88-000749	88-001956
	88-000769	88-001957
	88-001918	88-001958
	88-001921	88-001959
	88-001923	88-001960
	88-001925	88-001961
	88-001929	88-003193
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	88-001933	88-003195
		88-003196



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88-001975  
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Yorkeria chiloscyllii  
88-000800  
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88-004627  
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88-001503

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88-002630	Air Breathing
88-002646	88-000361
88-002647	88-000391
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88-002681	88-002616
88-002714	88-002828
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88-002735	88-001587
88-002742	Aldehyde Dehydrogenas
88-002762	88-002787
88-002766	Amino Acids
88-002776	88-001395
88-002819	88-001443
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88-002846	88-001612
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## Egg Composition

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## Egg Production

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## Egg Quality

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## Egg Size

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## Egg Survival

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## Gas Supersaturation

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## General

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Urea	Winter
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04753	88-004742
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003293	88-000819
004718	88-003268
004737	Carbofuran
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002002	Chlordane
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003257	88-004725
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001999	Cholinesterase
003301	88-002039
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Copper	88-004716
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Dioxin	88-003257
88-001999	88-004725
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Energy Development	Hexachlorobenzene
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General	88-000821
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88-004744	Liming
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88-003266	Lindane
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88-002006	88-003257
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88-004938	Litter
General/Marine	88-002009
88-002017	Manganese
88-002027	88-000830
88-002098	88-003263
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88-004709	88-002015
Heated Effluents	Mercury
88-001976	88-002018
Heavy Metals	88-003295
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Potassium Dichromate  
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Pulp Mill Effluents  
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Pyrethroids  
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Radiation  
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Radionuclides  
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Resin Acids  
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Rotenone  
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Salinity  
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Sediment Bioassays  
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Toluene  
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Toxaphene  
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Toxic Algae  
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Toxic Roe  
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Toxicity Testing  
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Trace Contaminants  
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Trace Metals  
88-002096



88-004867	88-005219
Tributyltin	Fish as Food
88-002132	88-000027
88-003380	88-001173
88-004774	88-002035
88-004775	88-002154
Trichlorfon	88-002489
88-004784	88-002490
Trichloroguaiacol	88-002491
88-003303	88-002825
Triclopyr Butoxyethyl Ester	88-003163
88-003337	88-003304
Tumors	88-003326
88-004766	89-003364
Urban Runoff	88-003643
88-003319	88-003645
88-003370	88-003646
Urea	88-003647
88-004963	88-003648
Vanadium	88-003649
88-002082	88-003650
Wastewater	88-003715
88-000834	88-004776
88-002110	88-004857
Xenobiotics	88-004868
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88-000854	88-005213
88-002048	88-005214
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88-003272	88-005218
88-003291	88-005219
88-003293	88-005220
88-003347	88-005221
88-003349	Fish Flavoring
88-004763	88-002540
88-004779	Food Technology
88-004801	88-002490
88-004809	88-002492
88-004812	88-003645
88-004823	88-003647
88-004865	88-005212
88-005057	88-005213
Zinc	88-005214
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88-002089	88-005218
88-002105	88-005221
88-002133	Marketing
88-002665	88-001173
88-003248	88-002488
88-003275	Oil Production
88-003331	88-003644
88-003354	Smoking Fish
88-004779	88-005221
88-004793	Storage Effects
88-004810	88-002492
88-004827	88-003643
88-004859	88-003646
2,4-dinitrophenol	88-003648
88-003296	88-003649
88-004819	88-003651
Utilization of Fishery Products	88-005217
Carcass Traits	88-005242
88-000140	Taste and Odor Probl
88-002491	88-002493

BB-003715  
BB-004868  
p Use/Conservation  
Watershed Management  
BB-004927