

Index to Volume 57

Articles

Agardy, T. Effects of fisheries on marine ecosystems: a conservationist's perspective	761
Anderson, J. T., and Gregory, R. S. Factors regulating survival of northern cod (NAFO 2J3KL) during their first 3 years of life	349
Arkipkin, A., Jereb, P., and Ragonese, S. Growth and maturation in two successive seasonal groups of the short-finned squid, <i>Illex coindetii</i> from the Strait of Sicily (central Mediterranean)	31
Arnason, R. Economic instruments for achieving ecosystem objectives in fisheries management	742
Babcock Hollowed, A., Ianelli, J. N., and Livingston, P. A. Including predation mortality in stock assessments: a case study for Gulf of Alaska walleye pollock	279
Bachelet, G., de Montaudouin, X., Auby, I., and Labourg, P.-J. Seasonal changes in macrophyte and macrozoobenthos assemblages in three coastal lagoons under varying degrees of eutrophication	1495
Balguerías, E., Quintero, M. E., and Hernández-González, C. L. The origin of the Saharan Bank cephalopod fishery	15
Ball, B. J., Fox, G., and Munday, B. W. Long- and short-term consequences of a <i>Nephrops</i> trawl fishery on the benthos and environment of the Irish Sea	1315
Beare, D. J., Gislason, A., Astthorsson, O. S., and McKenzie, E. Assessing long-term changes in early summer zooplankton communities around Iceland	1545
Bergeron, J.-P. Effect of strong winds on the nutritional condition of anchovy (<i>Engraulis encrasicolus</i> L.) larvae in the Bay of Biscay, Northeast Atlantic, as inferred from an early field application of the DNA/C index	249
Bergman, M. J. N., and van Santbrink, J. W. Mortality in megafaunal benthic populations caused by trawl fisheries on the Dutch continental shelf in the North Sea in 1994	1321
Bertrand, A., and Josse, E. Acoustic estimation of longline tuna abundance	919
Bez, N., and Rivoirard, J. On the role of sea surface temperature on the spatial distribution of early stages of mackerel using inertigrams	383
Bianchi, G., Gislason, H., Graham, K., Hill, L., Jin, X., Koranteng, K., Manickchand-Heileman, S., Payá, I., Sainsbury, K., Sanchez, F., and Zwanenburg, K. Impact of fishing on size composition and diversity of demersal fish communities	558
Blaber, S. J. M., Cyrus, D. P., Albaret, J.-J., Ching, C. V., Day, J. W., Elliott, M., Fonseca, M. S., Hoss, D. E., Orensanz, J., Potter, I. C., and Silvert, W. Effects of fishing on the structure and functioning of estuarine and nearshore ecosystems	590
Booth, A. J. Incorporating the spatial component of fisheries data into stock assessment models	858
Brodeur, R. D., Wilson, M. T., and Ciannelli, L. Spatial and temporal variability in feeding and condition of age-0 walleye pollock (<i>Theragra chalcogramma</i>) in frontal regions of the Bering Sea	256
Bucklin, A., Astthorsson, O. S., Gislason, A., Allen, L. D., Smolenack, S. B., and Wiebe, P. H. Population genetic variation of <i>Calanus finmarchicus</i> in Icelandic waters: preliminary evidence of genetic differences between Atlantic and Arctic populations	1592
Caddy, J. F. Marine catchment basin effects versus impacts of fisheries on semi-enclosed seas	628
Campbell, R. W., and Head, E. J. H. Viability of <i>Calanus finmarchicus</i> eggs <i>in situ</i> : does the presence of intact phytoplankton reduce hatching success?	1780
Cardinale, M., and Arrhenius, F. Decreasing weight-at-age of Atlantic herring (<i>Clupea harengus</i>) from the Baltic Sea between 1986 and 1996: a statistical analysis	882
Carscadden, J. E., Frank, K. T., and Leggett, W. C. Evaluation of an environment-recruitment model for capelin (<i>Mallotus villosus</i>)	412
Chu, D., Wiebe, P., and Copley, N. Inference of material properties of zooplankton from acoustic and resistivity measurements	1128
Claytor, R. R. Conflict resolution in fisheries management using decision rules: an example using a mixed-stock Atlantic Canadian herring fishery	1110
Cochrane, N. A., Sameoto, D. D., and Herman, A. W. Scotian Shelf euphausiid and silver hake population changes during 1984–1996 measured by multi-frequency acoustics . .	122
Collie, J. S., Escanero, G. A., and Valentine, P. C. Photographic evaluation of the impacts of bottom fishing on benthic epifauna	987

Constable, A. J., de la Mare, W. K., Agnew, D. J., Everson, I., and Miller, D. Managing fisheries to conserve the Antarctic marine ecosystem: practical implementation of the Convention on the Conservation of Antarctic Marine Living Resources (CCAMLR)	778
Corfield, J. The effects of acid sulphate run-off on a subtidal estuarine macrobenthic community in the Richmond River, NSW, Australia	1517
Corten, A. A possible adaptation of herring feeding migrations to a change in timing of the <i>Calanus finmarchicus</i> in the eastern North Sea	1261
Crain, J. A., and Miller, C. B. Detection of sex and sex ratio in <i>Calanus finmarchicus</i> early stage fifth copepodites	1773
Cury, P., Bakun, A., Crawford, R. J. M., Jarre, A., Quiñones, R. A., Shannon, L. J., and Verheyen, H. M. Small pelagics in upwelling systems: patterns of interaction and structural changes in “wasp-waist” ecosystems	603
Daan, N., and Fogarty, M. J. Foreword and Symposium overview	189
Dale, T., and Kaartvedt, S. Diel patterns in stage-specific vertical migration of <i>Calanus finmarchicus</i> in habitats with midnight sun	1800
Dalpadado, P., Ellertsen, B., Melle, W., and Dommasnes, A. Food and feeding conditions of Norwegian spring-spawning herring (<i>Clupea harengus</i>) through its feeding migrations	843
Dawe, E. G., Colbourne, E. B., and Drinkwater, K. F. Environmental effects on recruitment of short-finned squid (<i>Illex illecebrosus</i>)	1002
Dekker, W. A Procrustean assessment of the European eel stock	938
Dekker, W. The fractal geometry of the European eel stock	109
de Leiva Moreno, J. I., Agostini, V. N., Caddy, J. F., and Carocci, F. Is the pelagic-demersal ratio from fishery landings a useful proxy for nutrient availability? A preliminary data exploration for the semi-enclosed seas around Europe	1091
Desprez, M. Physical and biological impact of marine aggregate extraction along the French coast of the Eastern English Channel: short- and long-term post-dredging restoration	1428
Drinkwater, K., Lochman, S., Taggart, C., Thompson, K., and Frank, K. Entrainment of redfish (<i>Sebastes</i> spp.) larvae off the Scotian Shelf	372
Durbin, E. G., Garrahan, P. R., and Casas, M. C. Abundance and distribution of <i>Calanus finmarchicus</i> on the Georges Bank during 1995 and 1996	1664
Durbin, E. G., Garrahan, P. R., and Casas, M. C. Depth distribution of <i>Calanus finmarchicus</i> nauplii on the Georges Bank during 1995 and 1996	1686
Eleftheriou, A. Marine Benthos Dynamics: Environmental and Fisheries Impacts: Introduction and Overview	1299
Escribano, R., and Hidalgo, P. Influence of <i>El Niño</i> and <i>La Niña</i> on the population dynamics of <i>Calanus chilensis</i> in the Humboldt Current ecosystem of northern Chile	1867
Fiksen, Ø. The adaptive timing of diapause – a search for evolutionarily robust strategies in <i>Calanus finmarchicus</i>	1825
Frank, K. T., Shackell, N. L., and Simon, J. E. An evaluation of the Emerald/Western Bank juvenile haddock closed area	1023
Frid, C. L. J., Harwood, K. G., Hall, S. J., and Hall, J. A. Long-term changes in the benthic communities of North Sea fishing grounds	1303
Friedland, K. D., Hansen, L. P., Dunkley, D. A., and MacLean, J. C. Linkage between ocean climate, post-smolt growth, and survival of Atlantic salmon (<i>Salmo salar</i> L.) in the North Sea area	419
Fromentin, J.-M., Gjøsæter, J., Bjørnstad, O. N., and Stenseth, N. Chr. Biological processes and environmental factors regulating the dynamics of the Norwegian Skagerrak cod populations since 1919	330
Gaard, E. Seasonal abundance and development of <i>Calanus finmarchicus</i> in relation to phytoplankton and hydrography on the Faroe Shelf	1605
Gaard, E., and Hansen, B. Variations in the advection of <i>Calanus finmarchicus</i> onto the Faroe Shelf	1612
Garrison, L. P., and Link, J. S. Fishing effects on spatial distribution and trophic guild structure of the fish community in the Georges Bank region	723
Gates, J. M. Input substitution in a trap fishery	89
Ghertsos, K., Luczak, C., Dewarumez, J.-M., and Dauvin, J.-C. Influence of spatial scales of observation on temporal change in diversity and trophic structure of fine-sand communities from the English Channel and the southern North Sea	1481

Gislason, A., and Astthorsson, O. S. Winter distribution, ontogenetic migration, and rates of egg production of <i>Calanus finmarchicus</i> southwest of Iceland	1727
Gislason, A., Astthorsson, O. S., Petursdottir, H., Gudfinnsson, H., and Bodvarsdottir, A. R. Life cycle of <i>Calanus finmarchicus</i> south of Iceland in relation to hydrography and chlorophyll <i>a</i>	1619
Gislason, H., and Sinclair, M. M. Introduction (Ecosystem Effects of Fishing)	466
Gislason, H., Sinclair, M., Sainsbury, K., and O'Boyle, R. Symposium overview: incorporating ecosystem objectives within fisheries management	468
Greene, C. H., and Pershing, A. J. The response of <i>Calanus finmarchicus</i> populations to climate variability in the Northwest Atlantic: basin-scale forcing associated with the North Atlantic Oscillation	1536
Groenewold, S., and Fonds, M. Effects on benthic scavengers of discards and damaged benthos produced by the beam-trawl fishery in the southern North Sea	1395
Hall-Spencer, J. M., and Moore, P. G. Scallop dredging has profound, long-term impacts on maerl habitats	1407
Harms, I. H., Heath, M. R., Bryant, A. D., Backhaus, J. O., and Hainbucher, D. A. Modelling the Northeast Atlantic circulation: implications for the spring invasion of shelf regions by <i>Calanus finmarchicus</i>	1695
Harris, R. P., Irigoien, X., Head, R. N., Rey, C., Hygum, B. H., Hansen, B. W., Niehoff, B., Meyer-Harms, B., and Carlotti, F. Feeding, growth, and reproduction in the genus <i>Calanus</i>	1708
Heath, M. R., Astthorsson, O. S., Dunn, J., Ellertsen, B., Gaard, E., Gislason, A., Gurney, W. S. C., Hind, A. T., Irigoien, X., Melle, W., Niehoff, B., Olsen, K., Skreslet, S., and Tande, K. S. Comparative analysis of <i>Calanus finmarchicus</i> demography at locations around the Northeast Atlantic	1562
Heath, M. R., Fraser, J. G., Gislason, A., Hay, S. J., Jónasdóttir, S. H., and Richardson, K. Winter distribution of <i>Calanus finmarchicus</i> in the Northeast Atlantic	1628
Helle, K. Distribution of the copepodite stages of <i>Calanus finmarchicus</i> from Lofoten to the Barents Sea in July 1989	1636
Hoffmann, E., and Dolmer, P. Effect of closed areas on distribution of fish and epibenthos.	1310
Hollingworth, C. Preface (Ecosystem Effects of Fishing)	465
Hollowed, A. B., Bax, N., Beamish, R., Collie, J., Fogarty, M., Livingston, P., Pope, J., and Rice, J. C. Are multispecies models an improvement on single-species models for measuring fishing impacts on marine ecosystems?	707
Holm, M., Holst, J. Chr., and Hansen, L. P. Spatial and temporal distribution of post-smolts of Atlantic salmon (<i>Salmo salar</i> L.) in the Norwegian Sea and adjacent areas	955
Huggett, J. A., and Richardson, A. J. A review of the biology and ecology of <i>Calanus agulhensis</i> off South Africa	1834
Huse, I., and Korneliussen, R. Diel variation in acoustic density measurements of over-wintering herring (<i>Clupea harengus</i> L.)	903
Huse, I., Løkkeborg, S., and Soldal, A. V. Relative selectivity in trawl, longline and gillnet fisheries for cod and haddock	1271
Hygum, B. H., Rey, C., Hansen, B. W., and Carlotti, F. Rearing cohorts of <i>Calanus finmarchicus</i> (Gunnerus) in mesocosms	1740
Iles, T. C., and Beveton, R. J. H. The concentration hypothesis: the statistical evidence	216
Incze, L. S., Wahle, R. A., and Palma, A. T. Advection and settlement rates in a benthic invertebrate: recruitment to first benthic stage in <i>Homarus americanus</i>	430
Irigoien, X., Obermüller, B., Head, R. N., Harris, R. P., Rey, C., Hansen, B. W., Hygum, B. H., Heath, M. R., and Durbin, E. G. The effect of food on the determination of sex ratio in <i>Calanus</i> spp.: evidence from experimental studies and field data	1752
Jackson, G. D., Alford, R. A., and Choat, J. H. Can length frequency analysis be used to determine squid growth? – An assessment of ELEFAN	948
Josse, E., and Bertrand, A. <i>In situ</i> acoustic target strength measurements of tuna associated with a fish aggregating device	911
Kaartvedt, S. Life history of <i>Calanus finmarchicus</i> in the Norwegian Sea in relation to planktivorous fish	1819
Karakassis, I., Tsapakis, M., Hatziyanni, E., Papadopoulou, K.-N., and Plaiti, W. Impact of cage farming of fish on the seabed in three Mediterranean coastal areas	1462
Kimura, R., Watanabe, Y., and Zenitani, H. Nutritional condition of first-feeding larvae of Japanese sardine in the coastal and oceanic waters along the Kuroshio Current	240

Kimura, S., Nakata, H., and Okazaki, Y. Biological production in meso-scale eddies caused by frontal disturbances of the Kuroshio Extension	133
Korneliussen, R. J. Measurement and removal of echo integration noise	1204
Koslow, J. A., Boehlert, G. W., Gordon, J. D. M., Haedrich, R. L., Lorance, P., and Parin, N. Continental slope and deep-sea fisheries: implications for a fragile ecosystem	548
Köster, F. W., and Möllmann, C. Trophodynamic control by clupeid predators on recruitment success in Baltic cod?	310
Koueta, N., Castro, B. G., and Boucaud-Camou, E. Biochemical indices for instantaneous growth estimation in young cephalopod <i>Sepia officinalis</i> L.	1
Koutsoubas, D., Doumas, C., Arvanitidis, C., Korniliou, S., Petihakis, G., Triantafyllou, G., and Eleftheriou, A. Macrobenthic community structure and disturbance assessment in Gialova Lagoon, Ionian Sea	1472
Lagardère, F., Thibaudeau, K., and Bégout Anras, M. L. Feasibility of otolith markings in large juvenile turbot, <i>Scophthalmus maximus</i> , using immersion in alizarin-red S solutions	1175
Landa, J., and Piñeiro, C. Megrim (<i>Lepidorhombus whiffiagonis</i>) growth in the Northeastern Atlantic based on back-calculation of otolith rings	1077
Lang, G. M., Brodeur, R. D., Napp, J. M., and Schabetsberger, R. Variation in groundfish predation on juvenile walleye pollock relative to hydrographic structure near the Pribilof Islands, Alaska	265
Law, R. Fishing, selection, and phenotypic evolution	659
Le Gall, A. C., Hydes, D. J., Kelly-Gerrey, B. A., and Slinn, D. J. Development of a 2D horizontal biogeochemical model for the Irish Sea DYMONIS	1050
Lindegarth, M., Valentinsen, D., Hansson, M., and Ulmeström, M. Effects of trawling disturbances on temporal and spatial structure of benthic soft-sediment assemblages in Gullmarsfjorden, Sweden	1369
Litzow, M. A., Piatt, J. F., Abookire, A. A., Prichard, A. K., and Robards, M. D. Monitoring temporal and spatial variability in sandeel (<i>Ammodytes hexapterus</i>) abundance with pigeon guillemot (<i>Cephus columba</i>) diets	976
Livingston, P. A., and Jurado-Molina, J. A Multispecies virtual population analysis of the eastern Bering Sea	294
Livingston, P. A., and Tjelmeland, S. Fisheries in boreal ecosystems	619
Lloret, J., Leonart, J., and Solé, I. Time series modelling of landings in Northwest Mediterranean Sea	171
Marteinsdóttir, G., Guðmundsdóttir, A., Thorsteinsson, V., and Stefansson, G. Spatial variation in abundance, size composition and viable egg production of spawning cod (<i>Gadus morhua</i> L.) in Icelandic waters	824
Marteinsdóttir, G., Gunnarsson, B., and Suthers, I. M. Spatial variation in hatch date distributions and origin or pelagic juvenile cod in Icelandic waters	1182
Mazzola, A., Mirto, S., La Rosa, T., Fabiano, M., and Danovaro, R. Fish-farming effects on benthic community structure in coastal sediments: analysis of meiofaunal recovery	1454
McClelland, G., Misra, R. K., and Martell, D. J. Spatial and temporal distributions of larval sealworm (<i>Pseudoterranova decipiens</i> , Nematoda: Anisakinae), in <i>Hippoglossoides platessoides</i> (Pleuronectidae) in eastern Canada from 1980 to 1990	69
McConaughey, R. A., Mier, K. L., and Dew, C. B. An examination of chronic trawling effects on soft-bottom benthos of the eastern Bering Sea	1377
McManus, J. W., Meñez, L. A. B., Kesner-Reyes, K. N., Vergara, S. G., and Ablan, M. C. Coral reef fishing and coral-algal phase shifts: implications for global reef status	572
Ménard, F., Fonteneau, A., Gaertner, D., Nordstrom, V., Stéquert, B., and Marchal, E. Exploitation of small tunas by a purse-seine fishery with fish aggregating devices and their feeding ecology in an eastern tropical Atlantic ecosystem	525
Miller, C. B., Crain, J. A., and Morgan, C. A. Oil storage variability in <i>Calanus finmarchicus</i>	1786
Moll, A. Assessment of three-dimensional physical-biological ECOHAM1 simulations by quantified validation for the North Sea with ICES and ERSEM data	1060
Moran, M. J., and Stephenson, P. C. Effects of otter trawling on macrobenthos and management of demersal scalefish fisheries on the continental shelf of north-western Australia	510
Munch, S. B., and Conover, D. O. Recruitment dynamics of bluefish (<i>Pomatomus saltatrix</i>) from Cape Hatteras to Cape Cod, 1973–1995	393
Murawski, S. A. Definitions of overfishing from an ecosystem perspective	649

Murta, A. G. Morphological variation of horse mackerel (<i>Trachurus trachurus</i>) in the Iberian and North African Atlantic: implications for stock identification	1240
Nakata, H., Kimura, S., Okazaki, Y., and Kasai, A. Implications of meso-scale eddies caused by frontal disturbances of the Kuroshio Current for anchovy recruitment.....	143
Neuenfeldt, S., and Köster, F. W. Trophodynamic control on recruitment success in Baltic cod: the influence of cannibalism	300
Niehoff, B. Effect of starvation on the reproductive potential of <i>Calanus finmarchicus</i> ..	1764
Orłowski, A. Diel dynamics of acoustic measurements of Baltic fish	1196
Ottersen, G., and Loeng, H. Covariability in early growth and year-class strength of Barents Sea cod, haddock, and herring: the environmental link.....	339
Overholtz, W. J., Link, J. S., and Suslowicz, L. E. Consumption of important pelagic fish and squid by predatory fish in the northeastern USA shelf ecosystem with some fishery comparisons	1147
Pastoors, M. A., Rijnsdorp, A. D., and Van Beek, F. A. Effects of a partially closed area in the North Sea ("plaice box") on stock development of plaice	1014
Pauly, D., Christensen, V., and Walters, C. Ecopath, Ecosim, and Ecospace as tools for evaluating ecosystem impact of fisheries.....	697
Pavlov, D. A., Moksness, E., and Burmenski, V. A. Otolith microstructure characteristics in White Sea spring-spawning herring (<i>Clupea pallasi marisalbi</i> Berg) larvae.....	1069
Pedersen, O.-P., Tande, K. S., Timonin, A., and Semenova, T. A possible connection between hydrography and the distribution of <i>Calanus finmarchicus</i> on the Norwegian midshelf in 1997	1645
Piet, G. J., Rijnsdorp, A. D., Bergman, M. J. N., van Santbrink, J. W., Craeymeersch, J., and Buijs, J. A quantitative evaluation of the impact of beam trawling on benthic fauna in the southern North Sea	1332
Pitcher, C. R., Poiner, I. R., Hill, B. J., and Burridge, C. Y. Implications of the effects of trawling on sessile megazoobenthos on a tropical shelf in northeastern Australia	1359
Planque, B., and Batten, S. D. <i>Calanus finmarchicus</i> in the North Atlantic: the year of <i>Calanus</i> in the context of interdecadal change	1528
Pope, J. G., MacDonald, D. S., Daan, N., Reynolds, J. D., and Jennings, S. Gauging the impact of fishing mortality on non-target species.....	689
Powles, H., Bradford, M. J., Bradford, R. G., Doubleday, W. G., Innes, S., and Levings, C. D. Assessing and protecting endangered marine species	669
Pranovi, F., Raicevich, S., Franceschini, G., Farrace, M. G., and Giovanardi, O. Rapido trawling in the northern Adriatic Sea: effects on benthic communities in an experimental area.....	517
Reid, P. C., Battle, E. J. V., Batten, S. D., and Brander, K. M. Impacts of fisheries on plankton community structure	495
Relini, G., Relini, M., and Torchia, G. The role of fishing gear in the spreading of allochthonous species: the case of <i>Caulerpa taxifolia</i> in the Ligurian Sea	1421
Rice, J. C. Evaluating fishery impacts using metrics of community structure	682
Richardson, K. Integrating environment and fisheries management objectives in the ICES Area: reflections of a past ACME chair.....	766
Rijnsdorp, A. D., Dol, W., Hoyer, M., and Pastoors, M. A. Effects of fishing power and competitive interactions among vessels on the effort allocation on the trip level of the Dutch beam trawl fleet.....	927
Rijnsdorp, A. D., van Mourik Broekman, P. L., and Visser, E. G. Competitive interactions among beam trawlers exploiting local patches of flatfish in the North Sea	894
Rochet, M.-J. A comparative approach to life-history strategies and tactics among four orders of teleost fish	228
Rochet, M.-J. Does the concept of spawning per recruit make sense?.....	1160
Rogers, S. I., and Ellis, J. R. Changes in the demersal fish assemblages of British coastal waters during the 20th century	866
Rothschild, B. J. "Fish stocks and recruitment": the past thirty years.....	191
Rumohr, H., and Kujawski, T. The impact of trawl fishery on the epifauna of the southern North Sea	1389
Sabatini, M. E., Ramírez, F. C., and Martos, P. Distribution pattern and population structure of <i>Calanus australis</i> Brodsky, 1959 over the southern Patagonian Shelf off Argentina in summer	1856
Saborido-Rey, F., and Nedreaas, K. H. Geographic variation of <i>Sebastes mentella</i> in the Northeast Arctic derived from a morphometric approach	965

Sainsbury, K. J., Punt, A. E., and Smith, A. D. M. Design of operational management strategies for achieving fishery ecosystem objectives	731
Sakurai, Y., Kiyofuji, H., Saitoh, S., Goto, T., and Hiyama, Y. Changes in inferred spawning areas of <i>Todarodes pacificus</i> (Cephalopoda: Ommastrephidae) due to changing environmental conditions	24
Sánchez, F., and Gil, J. Hydrographic mesoscale structures and Poleward Current as a determinant of hake (<i>Merluccius merluccius</i>) recruitment in southern Bay of Biscay	152
Sanchez, P., Demestre, M., Ramon, M., and Kaiser, M. J. The impact of otter trawling on mud communities in the northwestern Mediterranean	1352
Sardá, R., Pinedo, S., Gremare, A., and Taboada, S. Changes in the dynamics of shallow sandy-bottom assemblages due to sand extraction in the Catalan Western Mediterranean Sea	1446
Schabetsberger, R., Brodeur, R. D., Ciannelli, L., Napp, J. M., and Swartzman, G. L. Diel vertical migration and interaction of zooplankton and juvenile walleye pollock (<i>Theragra chalcogramma</i>) at a frontal region near the Pribilof Islands, Bering Sea	1283
Schlultz, E. T., Cowen, R. K., Lwiza, K. M. M., and Gospodarek, A. M. Explaining advection: do larval bay anchovy (<i>Anchoa mitchilli</i>) show selective tidal-stream transport?	360
Secor, D. H. Spawning in the nick of time? Effect of adult demographics on spawning behaviour and recruitment in Chesapeake Bay striped bass	403
Secor, D. H. Longevity and resilience of Chesapeake Bay striped bass	808
Shannon, L. J., Cury, P. M., and Jarre, A. Modelling effects of fishing in the Southern Benguela ecosystem	720
Shiganova, T. A., and Bulgakova, Y. V. Effects of gelatinous plankton on Black Sea and Sea of Azov fish and their food resources	641
Søiland, H., and Skogen, M. D. Validation of a three-dimensional biophysical model using nutrient observations in the North Sea	816
Skjæraasen, J. E., and Bergstad, O. A. Distribution and feeding ecology of <i>Raja radiata</i> in the northeastern North Sea and Skagerrak (Norwegian Deep)	1249
Skreslet, S., Olsen, K., Mohus, Å., and Tande, K. S. Stage-specific habitats of <i>Calanus finmarchicus</i> and <i>Calanus helgolandicus</i> in a stratified northern Norwegian fjord	1656
Smith, C. J., Papadopoulou, K. N., and Diliberto, S. Impact of otter trawling on an eastern Mediterranean commercial trawl fishing ground	1340
Stanley, R. D., Kieser, R., Cooke, K., Surry, A. M., and Mose, B. Estimation of a widow rockfish (<i>Sebastes entomelas</i>) shoal off British Columbia, Canada as a joint exercise between stock assessment staff and the fishing industry	1035
Stanton, T. K., and Chu, D. Review and recommendations for the modelling of acoustic scattering by fluid-like elongated zooplankton: euphausiids and copepods	793
Stevens, J. D., Bonfil, R., Dulvy, N. K., and Walker, P. A. The effects of fishing on sharks, rays, and chimaeras (chondrichthyans), and the implications for marine ecosystems	476
Sumaila, U. R., Guénette, S., Alder, J., and Chuenpagdee, R. Addressing ecosystem effects of fishing using marine protected areas	752
Swain, D. P., Poirier, G. A., and Sinclair, A. F. Effect of water temperature on catchability of Atlantic cod (<i>Gadus morhua</i>) to the bottom-trawl survey in the southern Gulf of St Lawrence	56
Syrjala, S. E. Critique on the use of the delta distribution for the analysis of trawl survey data	831
Tande, K. S., Drobysheva, S., Nesterova, V., Nilssen, E. M., Edvardsen, A., and Tereschenko, V. Patterns in the variations of copepod spring and summer abundance in the northeastern Norwegian Sea and the Barents Sea in cold and warm years during the 1980s and 1990s	1581
Tande, K. S., and Miller, C. B. Introduction (Population Dynamics of <i>Calanus</i> in the North Atlantic)	1527
Tasker, M. L., Camphuysen, C. J. (Kees), Cooper, J., Garthe, S., Monteverchi, W. A., and Blaber, S. J. M. The impacts of fishing on marine birds	531
Tegner, M. J., and Dayton, P. K. Ecosystem effects of fishing in kelp forest communities	579
Triantafyllou, G., Petihakis, G., Dounas, C., Koutsoubas, D., Arvanitidis, C., and Eleftheriou, A. Temporal variations in benthic communities and their response to physicochemical forcing: a numerical approach	1507

Index to Volume 57

Tuck, I. D., Atkinson, R. J. A., and Chapman, C. J. Population biology of the Norway lobster, <i>Nephrops norvegicus</i> (L.) in the Firth of Clyde, Scotland II: fecundity and size at onset of sexual maturity.....	1227
Tuya, F. C., Soboil, M. L., and Kido, J. An assessment of the effectiveness of Marine Protected Areas in the San Juan Islands, Washington, USA	1218
Uye, S. Why does <i>Calanus sinicus</i> prosper in the shelf ecosystem of the Northwest Pacific Ocean?	1850
Uzars, D., and Plikshs, M. Cod (<i>Gadus morhua</i> L.) cannibalism in the Central Baltic: interannual variability and influence of recruit abundance and distribution.....	324
van Dalsen, J. A., Essink, K., Toxvig Madsen, H., Birklund, J., Romero, J., and Manzanera, M. Differential response of macrozoobenthos to marine sand extraction in the North Sea and the Western Mediterranean	1439
van der Meer, J., Beukema, J. J., and Dekker, R. Population dynamics of two marine polychaetes: the relative role of density dependence, predation, and winter conditions	1488
van der Veer, H. W., Berghahn, R., Miller, J. M., and Rijsdorp, A. D. Recruitment in flatfish, with special emphasis on North Atlantic species: progress made by the Flatfish Symposia	202
Vecchione, M., Mickevich, M. F., Fauchald, K., Collette, B. B., Williams, A. B., Munroe, T. A., and Young, R. E. Importance of assessing taxonomic adequacy in determining fishing effects on marine biodiversity	677
Vorberg, R. Effects of shrimp fisheries on reefs of <i>Sabellaria spinulosa</i> (Polychaeta)	1416
Wespestad, V. G., Fritz, L. W., Ingraham, W. J., and Megrey, B. A. On relationships between cannibalism, climate variability, physical transport, and recruitment success of Bering Sea walleye pollock (<i>Theragra chalcogramma</i>)	272
Wieland, K., Jarre-Teichmann, A., and Horbowa, K. Changes in the timing of spawning of Baltic cod: possible causes and implications for recruitment	452
Witherell, D., Pautzke, C., and Fluharty, D. An ecosystem-based approach for Alaska groundfish fisheries	771
Yaragina, N. A., and Marshall, C. T. Trophic influences on interannual and seasonal variation in the liver condition index of Northeast Arctic cod (<i>Gadus morhua</i>)	42
Ye, Y. Is recruitment related to spawning stock in penaeid shrimp fisheries?	1103
Zheng, J., and Kruse, G. H. Recruitment patterns of Alaskan crabs in relation to decadal shifts in climate and physical oceanography.....	438
Zwanenburg, K. C. T. The effects of fishing on demersal fish communities of the Scotian Shelf.....	503

Short communication

Bertrand, A., and Josse, E. Tuna target-strength related to fish length and swimbladder volume	1143
--	------

Letter to the Editors.....	185
-----------------------------------	-----

Obituary.....	1296
----------------------	------

Erratum	1525
Erratum	1526

List of referees	792
-------------------------------	-----

List of referees	1524
-------------------------------	------

List of referees	1875
-------------------------------	------