

Fishery Bulletin Index

Volume 100(1–4), 2002

List of titles

100(1)

- 1 The use of agreement measures and latent class models to assess the reliability of classifying thermally marked otoliths, by D. James Blick and Peter T. Hagen.
- 11 Local distribution and abundance of swimming crabs (*Callinectes* spp. and *Arenaeus cribrarius*) on a tropical arid beach, by Carlos A. Carmona-Suárez and Jesús E. Conde
- 26 Age, growth, and reproduction of permit (*Trachinotus falcatus*) in Florida waters, by Roy E. Crabtree, Peter B. Hood, and Derke Snodgrass
- 35 Tag-reporting levels for red drum (*Sciaenops ocellatus*) caught by anglers in South Carolina and Georgia estuaries, by Michael R. Denson, Wallace E. Jenkins, Arnold G. Woodward, and Theodore I. J. Smith
- 42 Age, growth, and mortality of the Mayan cichlid (*Cichlasoma urophthalmus*) from the southeastern Everglades, by Craig H. Faunce, Heather M. Patterson, and Jerome J. Lorenz
- 51 Population status, seasonal variation in abundance, and long-term population trends of Steller sea lions (*Eu-metopias jubatus*) at the South Farallon Islands, California, by Kelly K. Hastings and William J. Sydeman
- 63 Larval and settlement periods of the northern searobin (*Prionotus carolinus*) and the striped searobin (*P. evolans*), by Richard S. McBride, Michael P. Fahay, and Kenneth W. Able
- 74 Assessing the precision of frequency distributions estimated from trawl-survey samples, by Michael Pennington, Liza-Maré Burmeister, and Vidar Hjellvik
- 81 Estimated ages of red porgy (*Pagrus pagrus*) from fishery-dependent and fishery-independent data and a comparison of growth parameters, by Jennifer C. Potts and Charles S. Manooch III.
- 90 Bycatch in the tuna purse-seine fisheries of the western Indian Ocean, by Evgeny V. Romanov
- 106 Ontogenetic shifts in natural diet during benthic stages of American lobster (*Homarus americanus*) off the Magdalen Islands, by Bernard Sainte-Marie and Denis Chabot

- 117 Age and growth of Hawaiian green sea turtles (*Chelonia mydas*): and analysis based on skeletochronology, by George R. Zug, George H. Balazs, Jerry A. Wetherall, Denise M Parker, and Shawn K. K. Murakawa
- 128 Estimates of lobster-handling mortality associated with the Northwestern Hawaiian Islands lobster-trap fishery, by Gerard T. DiNardo, Edward E. DeMartini, and Wayne R. Haight
- 134 An evaluation of pop-up satellite tags for estimating postrelease survival of blue marlin (*Makaira nigricans*) from a recreational fishery, by John E. Graves, Brian Luckhurst, and Eric D. Prince
- 143 Reproduction of the blacknose shark (*Carcharhinus acronotus*) in coastal waters off northeastern Brazil, by Fabio H. V. Hazin, Paulo G. Oliveira, and Matt K. Broadhurst
- 149 A new growth model for red drum (*Sciaenops ocellatus*) that accommodates seasonal and ontogenic changes in growth rates, by Clay E. Porch, Charles A. Wilson, and David L. Nieland

100(2)

- 155 Horizontal and vertical movements of juvenile bluefin tuna (*Thunnus thynnus*), in relation to oceanographic conditions of the western North Atlantic, determined with ultrasonic telemetry, by Richard Brill, Molly Lutcavage, Greg Metzger, Peter Bushnell, Michael Arendt, Jon Lucy, Cheryl Watson, and David Foley
- 168 Differences in diet of Atlantic bluefin tuna (*Thunnus thynnus*) at five seasonal feeding grounds on the New England continental shelf, by Bradford C. Chase
- 181 Movement of American lobster (*Homarus americanus*) in the southwestern Gulf of St. Lawrence, by Michel Comeau and Fernand Savoie
- 193 Shortspine thornyhead (*Sebastolobus alascanus*) abundance and habitat associations in the Gulf of Alaska, by Page Else, Lewis Haldorson, and Kenneth Krieger
- 200 Geographic and temporal patterns in size and maturity of the longfin inshore squid (*Loligo pealeii*) off the northeastern United States, by Emma M. C. Hatfield and Steven X. Cadrin
- 214 Age and size composition, growth rate, reproductive biology, and habitats of the West Australian dhufish (*Glaucosoma hebraicum*) and their relevance to the management of this species, by Sybrand A. Hesp, Ian C. Potter, and Norman G. Hall

- 228** Longitudinal logbook survey designs for estimating recreational fishery catch, with application to ayu (*Plecoglossus altivelis*), by Shuichi Kitada and Kiyoshi Tezuka
- 244** Physiological ecology of juvenile chinook salmon (*Oncorhynchus tshawytscha*) at the southern end of their distribution, the San Francisco Estuary and Gulf of the Farallones, California, by R. Bruce MacFarlane and Elizabeth C. Norton
- 258** Bottlenose dolphin (*Tursiops truncatus*) strandings in South Carolina, 1992–1996, by Wayne McFee and Sally R. Hopkins-Murphy
- 266** Validated age and growth of the porbeagle shark (*Lamna nasus*) in the western North Atlantic Ocean, by Lisa J. Natanson, Joseph J. Mello, and Steven E. Campana
- 279** Food habits and consumption rates of common dolphinfish (*Coryphaena hippurus*) in the eastern Pacific Ocean, by Robert J. Olson and Felipe Galván-Magaña
- 299** Recruitment season, size, and age of young American eels (*Anguilla rostrata*) entering an estuary near Beaufort, North Carolina, by Perce M. Powles and Stanley M. Warlen
- 307** Changes over time in the spatial distribution of walleye pollock (*Theragra chacogramma*) in the Gulf of Alaska, 1984–1996, by Michiyo Shima, Anne Babcock Hollowed, and Glenn R. VanBlaricom
- 324** Movements of bocaccio (*Sebastes paucispinis*) and greenspotted (*S. chlorostictus*) rockfishes in a Monterey submarine canyon: implications for the design of marine reserves, by Richard M. Starr, John N. Heine, Jason M. Felton, and Gregor M. Cailliet
- 338** Efficiency of bycatch reduction devices in small otter trawls used in the Florida shrimp fishery, by Philip Steele, Theresa M. Bert, Kristine H. Johnston, and Sandra Levett
- 351** Severe decline in abundance of the red porgy (*Pagrus pagrus*) population off the southeastern United States, by Douglas S. Vaughan and Michael H. Prager
- 376** A nearsurface, daytime occurrence of two mesopelagic fish species (*Stenobranchius leucopsarus* and *Leuroglossus schmidti*) in a glacial fjord, by Alisa A. Abookire, John F. Piatt, and Suzann G. Speckman
- 381** Opportunistic feeding of longhorn sculpin (*Myoxocephalus octodecemspinosus*): Are scallop fishery discards an important food subsidy for scavengers on Georges Bank?, by Jason S. Link and Frank P. Almeida
- 386** First record of a yellowfin tuna (*Thunnus albacares*) from the stomach of a longnose lancetfish (*Alepisaurus ferox*), by Evgeny V. Romanov and Veniamin V. Zamorov
- 100(3)**
- 391** Temporal and spatial dynamics of spawning, settlement, and growth of gray snapper (*Lutjanus griseus*) from the West Florida shelf as determined from otolith microstructures, by Robert J. Allman and Churchill B. Grimes
- 404** Current velocity and catch efficiency in sampling settlement-stage larvae of coral-reef fishes, by Todd W. Anderson, Claudine T. Bartels, Mark A. Hixon, Erich Bartels, Mark H. Carr, and Jonathan M. Shenker
- 414** Intermingling and seasonal migrations of Greenland halibut (*Reinhardtius hippoglossoides*) populations determined from tagging studies, by Jesper Boje
- 423** Improving pinniped diet analyses through identification of multiple skeletal structures in fecal samples, by Patience Brown, Jeffrey L. Laake, and Robert L. DeLong
- 434** Pinniped diet composition: a comparison of estimation models, by Jeffrey L. Laake, Patience Browne, Robert L. DeLong, and Harriet R. Huber
- 448** Vertical and horizontal movements of southern bluefin tuna (*Thunnus maccoyii*) in the Great Australian Bight observed with ultrasonic telemetry, by Tim L. O. Davis and Clive A. Stanley
- 466** Turtle excluder devices—Are the escape openings large enough?, by Sheryan P. Epperly and Wendy G. Teas
- 475** Habitat use by demersal nekton on the continental shelf in the Benguela ecosystem, southern Africa, by Mark J. Gibbons, André J. J. Goosen, and Patti A. Wickens
- 491** Population structure of king mackerel (*Scomberomorus cavalla*) around peninsular Florida, as revealed by microsatellite DNA, by John R. Gold, Elena Park, and Doug A. DeVries
- 510** Do fluctuations in the somatic growth rate of rock lobster (*Jasus lalandii*) encompass all size classes? A re-assessment of juvenile growth, by R. W. Anthony Hazell, David S. Schoeman, and Mark N. Noffke
- 519** Stock-rebuilding time isopleths and constant-*F* stock-rebuilding plans for overfished stocks, by Larry D. Jacobson and Steven X. Cadrin

- 537** Nuclear and mitochondrial DNA markers for specific identification of istiophorid and xiphiid billfishes, by Jan McDowell and John E. Graves
- 545** Seasonal growth of King George whiting (*Sillaginodes punctata*) estimated from length-at-age samples of the legal-size harvest, by Richard McGarvey and Anthony J. Fowler
- 559** Spatial and temporal patterns in the demersal fish community on the shelf and upper slope regions of the Gulf of Alaska, by Franz J. Mueter and Brenda L. Norcross
- 582** Age, growth, mortality, and distribution of pinfish (*Lagodon rhomboides*) in Tampa Bay and adjacent Gulf of Mexico waters, by Gary A. Nelson
- 593** Recovery of the Gulf of Maine–Georges Bank Atlantic herring (*Clupea harengus*) complex: perspectives based on bottom trawl survey data, by William J. Overholtz and Kevin D. Friedland
- 609** Recruitment of larval Atlantic menhaden (*Brevoortia tyrannus*) to North Carolina and New Jersey estuaries: evidence for larval transport northward along the east coast of the United States, by Stanley M. Warlen, Kenneth W. Able, and Elisabeth H. Laban
- 624** Origin of immature loggerhead sea turtles (*Caretta caretta*) at Hutchinson Island, Florida: evidence from mtDNA markers, by Wayne N. Witzell, Anna L. Bass, Michael J. Bresette, David A. Singewald, and Jonathan C. Gorham
- 632** Spawning of American shad (*Alosa sapidissima*) and striped bass (*Morone saxatilis*) in the Mattaponi and Pamunkey Rivers, Virginia, by Donna Marie Bilkovic, John E. Olney, and Carl H. Hershner
- 641** Spawning, growth, and overwintering size of searobins (Triglidae: *Prionotus carolinus* and *P. evolans*), by Richard S. McBride
- 100(4)**
- 651** Hybridization between two serranids, the coney (*Cephalopholis fulva*) and the creole-fish (*Paranthias furcifer*), at Bermuda, by Meredith A. Bostrom, Bruce B. Collette, Brian E. Luckhurst, Kimberly S. Reece, and John E. Graves
- 662** Effects of experimental harvest on red sea urchins (*Strongylocentrotus franciscanus*) in northern Washington, by Sarah K. Carter and Glenn R. VanBlaricom
- 674** Age and growth of the smooth dogfish (*Mustelus canis*) in the northwest Atlantic Ocean, by Christina L. Conrath, James Gelsleichter, and John A. Musick
- 683** Bycatch of billfishes by the European tuna purse-seine fishery in the Atlantic Ocean, by Daniel Gaertner, Frédéric Ménard, Carol Develter, and Javier Ariz
- 690** Life history of South African snoek, *Thyrsites atun* (Pisces: Gempylidae): a pelagic predator of the Benguela ecosystem, by Marc H. Griffiths
- 711** Length and age at maturity of female petrale sole (*Eopsetta jordani*) determined from samples collected prior to spawning aggregation, by Robert W. Hannah, Steven J. Parker, and Erica L. Fruh
- 720** The measurement error in marine survey catches: the bottom trawl case, by Vidar Hjellvik, Olav Rune Godø, and Dag Tjøstheim
- 727** The reproductive biology of the porbeagle shark (*Lamna nasus*) in the western North Atlantic Ocean, by Christopher F. Jensen, Lisa J. Natanson, Harold L. Pratt Jr., Nancy Kohler, and Steven E. Campana
- 739** Integration of submersible transect data and high-resolution multibeam sonar imagery for a habitat-based groundfish assessment of Heceta Bank, Oregon, by Nicole M. Nasby-Lucas, Bob W. Embley, Mark A. Hixon, Susan G. Merle, Brian N. Tissot, and Dawn J. Wright
- 752** An examination of spatial and temporal genetic variation in walleye pollock (*Theragra chalcogramma*) using allozyme, mitochondrial DNA, and microsatellite data, by Jeffrey B. Olsen, Susan E. Merkouris, and James E. Seeb
- 765** Movements, behavior, and habitat selection of bigeye tuna (*Thunnus obesus*) in the eastern equatorial Pacific, ascertained through archival tags, by Kurt M. Schaefer and Daniel W. Fuller
- 789** An evaluation of back-calculation methodology using simulated otolith data, by Michael J. Schirripa
- 800** Sustainability of elasmobranchs caught as bycatch in a tropical prawn (shrimp) trawl fishery, by Ilona C. Stobutzki, Margaret J. Miller, Don S. Heales, and David T. Brewer
- 822** Age and growth of the swordfish (*Xiphias gladius* L.) in the waters around Taiwan determined from anal-fin rays, by Chi-Lu Sun, Sheng-Ping Wang, and Su-Zan Yeh

-
- 836** Distribution and co-occurrence of rockfishes (family: Sebastidae) over trawlable shelf and slope habitats of California and southern Oregon, by Erik H. Williams and Stephen Ralston
- 856** Properties of the residuals from two tag-recovery models, by Robert J. Latour, John M. Hoenig, and Kenneth H. Pollock
- 861** Preliminary study on the use of neural arches in the age determination of bluntnose sixgill sharks (*Hexanchus griseus*), by Gordon A. McFarlane, Jacquelynne R. King, and Mark W. Saunders
- 865** Re-identification of a lamnid shark embryo, by Henry F. Mollet, Antonio D. Testi, Leonard J. V. Compagno, and Malcolm P. Francis
- 876** Necropsy findings in sea turtles taken as bycatch in the North Pacific longline fishery, by Thierry M. Work, and George H. Balazs

Fishery Bulletin Index

Volume 100(1–4), 2002

List of authors

- Able, Kenneth W. 63, 609
 Abookire, Alisa A. 376
 Allman, Robert J. 391
 Almeida, Frank P. 381
 Anderson, Todd W. 404
 Antonio D. Testi
 Arendt, Michael 155
 Ariz, Javier 683
- Babcock Hollowed, Anne 307
 Balazs, George H. 117, 876
 Bartels, Claudine T. 404
 Bartels, Erich 404
 Bass, Anna L. 624
 Bert, Theresa M. 338
 Bilkovic, Donna Marie 632
 Blick, D. James 1
 Boje, Jesper 414
 Bostrom, Meredith A. 651
 Bresette, Michael J. 624
 Brewer, David T. 800
 Brill, Richard 155
 Broadhurst, Matt K. 143
 Browne, Patience 423, 434
 Burmeister, Liza-Maré 74
 Bushnell, Peter 155
- Cadrin, Steven X. 200, 519
 Caillet, Gregor M. 324
 Campana, Steven E. 266, 727
 Carmona-Suárez, Carlos A. 11
 Carr, Mark H. 404
 Carter, Sarah K. 662
 Chabot, Denis 106
 Chase, Bradford C. 168
 Collette, Bruce B. 651
 Comeau, Michel 181
 Compagno, L. J. V. 865
 Conde, Jesús E. 11
 Conrath, Christina L. 674
 Crabtree, Roy E. 26
- Davis, Tim L. O. 448
 DeLong, Robert L. 423, 434
 DeMartini, Edward E. 128
 Denson, Michael R. 35
 Develter, Carol 683
 DeVries, Doug A. 491
 DiNardo, Gerard T. 128
- Else, Page 193
 Embley, Bob W. 739
 Epperly, Sheryan P. 466
- Fahay, Michael P. 63
 Faunce, Craig H. 42
 Felton, Jason M. 324
 Foley, David 155
 Fowler, Anthony J. 545
 Francis, Malcolm P. 865
 Friedland, Kevin D. 593
 Fruh, Erica L. 711
 Fuller, Daniel W. 765
- Gaertner, Daniel 683
 Galván-Magaña, Felipe 279
 Gelsleichter, James 674
 Gibbons, Mark J. 475
 Godø, Olav Rune 720
 Gold, John R. 491
 Goosen, André J. J. 475
 Gorham, Jonathan C. 624
 Graves, John E. 134, 537, 651
 Griffiths, Marc H. 690
 Grimes, Churchill B. 391
- Hagen, Peter T. 1
 Haight, Wayne R. 128
 Haldorson, Lewis 193
 Hall, Norman G. 214
 Hannah, Robert W. 711
 Hastings, Kelly K. 51
 Hatfield, Emma M. C. 200
 Hazell, R. W. Anthony 510
 Hazin, Fabio H. V. 143
 Heales, Don S. 800
 Heine, John N. 324
 Hershner, Carl H. 632
 Hesp, Sybrand A. 214
 Hixon, Mark A. 404, 739
 Hjellvik, Vidar 74, 720
 Hoenig, John M. 856
 Hood, Peter B. 26
 Hopkins-Murphy, Sally R. 258
 Huber, Harriet R. 434
- Jacobson, Larry D. 519
 Jenkins, Wallace E. 35
 Jensen, Christopher F. 727
 Johnston, Kristine H. 338
- King, Jacquelynne R. 861
 Kitada, Shuichi 228
 Kohler, Nancy 727
 Krieger, Kenneth 193
- Laake, Jeffrey 423, 434
- Laban, Elisabeth H. 609
 Latour, Robert J. 856
 Levett, Sandra 338
 Link, Jason S. 381
 Lorenz, Jerome J. 42
 Luckhurst, Brian E. 134
 Luckhurst, Brian E. 651
 Lucy, Jon 155
 Lutcavage, Molly 155
- MacFarlane, R. Bruce 244
 Manooch III, Charles S. 81
 McBride, Richard S. 63, 641
 McDowell, Jan R. 537
 McFarlane, Gordon A. 861
 McFee, Wayne E. 258
 McGarvey, Richard 545
 Mello, Joseph J. 266
 Ménard, Frédéric 683
 Merkouris, Susan E. 752
 Merle, Susan G. 739
 Metzger, Greg 155
 Miller, Margaret J. 800
 Mollet, Henry F. 865
 Mueter, Franz J. 559
 Murakawa, Shawn K. K. 117
 Musick, John A. 674
- Nasby-Lucas, Nicole M. 739
 Natanson, Lisa J. 266, 727
 Nelson, Gary A. 582
 Nieland, David L. 149
 Noffke, Mark N. 510
 Norcross, Brenda L. 559
 Norton, Elizabeth C. 244
- Oliveira, Paulo G. 143
 Olney, John E. 632
 Olsen, Jeffrey B. 752
 Olson, Robert J. 279
 Overholtz, William J. 593
- Pak, Elena 491
 Parker, Denise M. 117
 Parker, Steven J. 711
 Patterson, Heather M. 42
 Pennington, Michael 74
 Piatt, John F. 376
 Pollock, Kenneth H. 856
 Porch, Clay E. 149
 Potter, Ian C. 214
 Potts, Jennifer C. 81
 Powles, Perce M. 299
 Prager, Michael H. 351
 Pratt Jr., Harold L. 727
 Prince, Eric D. 134
- Ralston, Stephen 836
 Reece, Kimberly S. 651
 Romanov, Evgeny V. 90, 386

- Sainte-Marie, Bernard 106
Saunders, Mark W. 861
Savoie, Fernand 181
Schaefer, Kurt M. 765
Schirripa, Michael J. 789
Schoeman, David S. 510
Seeb, James E. 752
Shenker, Jonathan M. 404
Shima, Michiyo 307
Singewald, David A. 624
Smith, Theodore I. J. 35
Snodgrass, Derke 26
Speckman, Suzann G. 376
Stanley, Clive A. 448
Starr, Richard M. 324
- Steele, Philip. 338
Stobutzki, Ilona C. 800
Sun, Chi-Lu 822
Sydeman, William J. 51
- Teas, Wendy G. 466
Testi, Antonio D. 865
Tezuka, Kiyoshi 228
Tissot, Brian N. 739
Tjøstheim, Dag 720
- VanBlaricom, Glenn R. 307, 662
Vaughan, Douglas S. 351
- Wang, Sheng-Ping 822
- Warlen, Stanley 299, 609
Watson, Cheryl 155
Wetherall, Jerry A. 117
Wickens, Patti A. 475
Williams, Erik H. 836
Wilson, Charles A. 149
Witzell, Wayne N. 624
Woodward, Arnold G. 35
Work, Thierry M. 876
Wright, Dawn J. 739
- Yeh, Su-Zan 822
- Zamorov, Veniamin V. 386
Zug, George R. 117

Fishery Bulletin Index

Volume 100(1–4), 2002

List of subjects

- Abundance
 crabs 11
 estimates 739
 porgy, red 351
 seasonal 51
 sea lions, Steller 51
 squid, longfin 200
 thornyhead, shortspine 193
- Acoustic seafloor mapping 739
- Age
 and growth
 cichlid, Mayan 42
 dhufish 214
 dogfish, smooth 674
 eel, American 299
 permit 26
 pinfish 582
 porgy, red 81
 sea turtles, green 117
 shark 266, 861
 swordfish 822
 and length (sole, petrale) 711
 validation (shark, porbeagle) 266
- Alepisaurus ferox* — see lancetfish, longnose
- Allozymes 752
- Alosa sapidissima* — see shad, American
- Anguilla rostrata* — see eel, American
- Archival tags 765
- Arenaeus cribrarius* — see crabs, speckled
- Atlantic, Northwest 381
- Ayu 228
- BRD (bycatch reduction device) 338
- Back-calculation 789
- Bass, striped 632
- Bathylagidae 376
- Behavior (southern bluefin tuna) 448
- Benguela ecosystem 475, 690
- Bermuda 651
- Billfish 537
 bycatch 683
- Bluntnose sixgill shark 861
- Bocaccio 324
- Bottom trawl 720
- Brazil 143
- Brevoortia tyrannus* — see menhaden, Atlantic
- Bycatch
 Atlantic Ocean 683
 in shrimp fishery 338, 800
 in tuna purse-seine fishery 90, 683
 of elasmobranchs 800
 of sea turtles 876
 reduction device 338
 western Indian Ocean 90
- California
 Farallon Islands 51, 836
- Callinectes* spp. 11
sapidus — see crabs, swimming
- Carangidae 26
- Carcharhinus acronotus* — see shark, blacknose
- Carcharodon carcharias* — see shark, white
- Caretta caretta* — see sea turtles, loggerhead
- Catch efficiency (larval traps) 404
- Cephalopholis fulva* — see coney
- Channel nets 404
- Chelonia mydas* — see sea turtles, green
- Cheloniidae 117
- Cichlid, Mayan 42
- Cichlasoma urophthalmus* — see cichlid, Mayan
- Clupea harengus* — see herring, Atlantic
- Cluster sampling 74, 307
- Cod, Arctic 720
- Coney 651
- Coryphaena hippurus* — see dolphinfish
- Cowcod 519
- Crabs,
 rock 106
 speckled swimming 11
 swimming 11
- Creole-fish 651
- Current velocity 404
- Data source impacts 81
- Demersal fish assemblages 475, 559
- Dermal denticles 864
- Dhufish 214
- Diet
 dolphinfish 279
 lobster, American 106
- pinniped 423, 434
 seal, harbor 423, 434
 tuna, bluefin 168
- Distribution and abundance
 bass 632
 crab 11
 pollock, walleye 307
 rockfish 836
 shad 632
 squid, longfin 200
- Dogfish, smooth 674
- Dolphin
 bottlenose 258
 strandings 258
- Dolphinfish 279
- Drum, red 35, 149
- Ecology, salmon 244
- Eel, American 299
- Effective sample size 74
- Elasmobranchs 266, 674, 727, 800, 861
- Endangered species 466
- Eopsetta jordani* — see sole, petrale
- Eumetopias jubatus* — see sea lion, Steller
- Everglades 42
- Exotics (Mayan cichlid) 42
- Experimental harvest 662
- FAD (fish aggregating device) 683, 765
- Fecal analyses 423
- Feeding
 grounds 166
 opportunistic 381
- Fisheries
 Florida shrimp 338
 recreational 134, 228
 tuna purse-seine 90
- Fishery management 662, 683
- Flatfish 711
- Florida
 permit 26
 shrimp 338
 snapper 391
- Flounder, yellowtail 519
- Forensic identification 537
- Frequency distribution 74
- Frequency of occurrence 434
- Gempylidae 690
- Genetic variation 752
- Geolocation 765
- Georges Bank 381, 419
- Glacier Bay 376
- Glaucosoma hebraicum* — see dhufish
- Groundfish 739

- Growth 789
 dhufish 214
 drum, red 149
 lobster, rock 510
 modeling
 drum, red 149
 sea turtles 117
 pinfish 582
 porgy, red 81
 salmon 244
 searobins 641
 snapper, gray 391
 whiting, King George 545
 Gulf of Alaska 193, 307, 559
 Gulf of Farallones, salmon 244
 Gulf of Maine 593
 Gulf of Mexico
 drum, red 149
 pinfish 582
- Gulf of St. Lawrence
 lobster, American 181
- Habitat 632
 bass, striped 632
 dhufish 214
 nekton 475
 shad, American 632
 thornyhead, shortspine 193
 tuna 765
 Halibut, Greenland 414
 Hawaiian Islands 117, 128
 Heceta Bank 739
 Herring, Atlantic
 as prey 168
 recovery 593
Hexanchus griseus — see bluntnose
 sixgill shark
 Histology 711
Homarus americanus — see lobster,
 American
 Hutchinson Island, Florida 624
 Hybridization 651
- Indian Ocean 90, 386
 Indirect gradient analysis 836
 Intergeneric hybridization 651
 Istiophorids 537
Isurus oxyrinchus — see mako,
 shortfin
- Jasus lalandii* — see lobster, rock
- Lagodon rhomboides* — see pinfish
Lamna nasus — see shark, porbeagle
 Lampfish, northern 376
 Lancetfish, longnose 386
 Larvae
 coral-reef fish 404
- Larval
 settlement 63
 supply 404
 transport 609
 Lee Stocking Island 404
 Length
 at age, King George whiting 545
 frequency, shark 266
Leuroglossus schmidti — see smooth-
 tongue, northern
 Life history
 searobins 63
 shark, blacknose 143
 snoek 690
Limanda ferruginea — see flounder,
 yellowtail
 Lipids, salmon 244
 Light trap 404
 Lobster
 American 106, 181
 rock 510
 slipper 128
 spiny (Hawaiian) 128
 Logbook surveys 228
Loligo pealeii — see squid, longfin
 inshore
 Longline fishery 875
Lutjanus griseus — see snapper, gray
- Mackerel, king 491
 Magdalen Islands 106
Makaira nigricans — see marlin, blue
 Mako, shortfin 865
 Management (dhufish) 214
 Manned submersible transects 739
 Marking, thermal (of otoliths) 1
 Marine
 mammals 423
 reserves 324
 Marlin
 blue 134
 other species 537
 Maturity
 shark, blacknose 143
 sole, petrale 711
 squid, longfin 200
 Measurement error 720
 Mediterranean
 Menhaden, Atlantic 609
 Mesopelagic fish 376
 Microsatellite DNA 491, 752
 Migration
 diel 376
 halibut 414
 vertical 376
 Models
 diet composition 434
 drum, red 149
 growth 149, 545
- latent class 1
 surplus production 351, 419
 tag recovery 856
 Monterey submarine canyon 324
Morone saxatilis — see bass, striped
 Morphometrics 739
 Mortality
 cichlid, Mayan 42
 dhufish 214
 from handling 128
 lobster 128
 longline fishery 876
 pinfish 582
 Movement
 lobster, American 181
 rockfish 324
 tuna 155, 448, 765
 MtDNA
 mackerel 491
 marlin 537
 ND4 region 537
 pollock 752
 sea turtles, loggerhead 624
 Multibeam sonar imagery 739
Mustelus canis — see dogfish, smooth
 Myctophidae 376
Myoxocephalus octodecemspinosus
 — see sculpin, longhorn
- Necropsies 876
 Neural arches 860
 New Jersey 641
 Nonmetric multidimensional
 scaling 559
 North Carolina
 eel 299
 lampfish, northern 376
 smoothtongue, northern 376
 Nuclear DNA (billfishes) 537
- Oncorhynchus tshawytscha* — see
 salmon, chinook
 Ontogeny 106, 149
 Oophagy 727
 Oregon 836
 Otoliths 26, 789
 in fecal samples 423
 marking of 1
 permit 26
 simulated data 789
 snapper, gray 391
 Overfished stocks 519
 Overwintering (searobins) 641
- Pagrus pagrus* — see porgy, red
Panulirus marginatus — see lobster,
 spiny
Paranthias furcifer — see creole-fish
 Pathology 876

- PCR (polymerase chain reaction) 537
 Permit 26
Phoca vitulina — see seal, harbor
 Physiology, salmon 244
 Pinfish 582
 Pinnipeds 423, 434
Placoptecten magellanicus — see sea scallop
Plecoglossus ativelis — see ayu
 Pollock, walleye 307, 752
 Population
 demersal fish community 559
 genetics 752
 status 51
 structure, mackerel 491
 trends, sea lions 51
 Pop-up satellite tags 134
 Porgy, red 81, 351
 Postrelease survival 134
 Prawn trawl fishery 800
 Predation,
 by dolphinfish 279
 by lancetfish 386
 of tuna 386
Prionotus
 carolinus — see searobins
 evolans — see searobins

 Rays, anal-fin 821
 Recolonization 662
 Recreational fishing 35
 ayu 228
 Recruitment
 eel, American 299
 menhaden, Atlantic 609
 porgy, red 351
 snapper, gray 391
 squid 200
Reinhardtius hippoglossoides — see halibut, Greenland
 Reproduction
 dhufish 214
 permit 26
 searobins 63, 641
 shark
 blacknose 143
 porbeagle 727
 snapper, gray 391
 Residuals 856
 Reliability index 1
 Reward study 35
 Rockfish
 bocaccio 324
 cowcod 519
 greenspotted 324
 spp. 836
 Salmon
 chinook 244
 salmonids 434
 Sampling design 711
 Sandy beach 11
 San Francisco Estuary 244
 Sanzo 865
 Scavenging 381
 Sciaenops ocellatus — see drum, red
 Scomberomorus cavalla— see mackerel, king
 Sculpin, longhorn 381
 Scyllarides squammosus — see lobster, slipper
 Sea lion, Steller 51, 307
 Sea scallop 381
 Sea urchin, red 662
 Seasonal variation, sea lions 51
 Searobins 63, 641
 Sea turtles 466
 demographic composition 624
 green 117, 466
 loggerhead 466, 624
 mortality 876
 MtDNA analysis 624
 olive ridley 466
 strandings 466
 Sea urchin, red 662
 Seal, harbor 423
 Sebastes
 chlorostictus — see rockfish, greenspotted
 levis — see cowcod
 paucispinis — see bocaccio
 Sebastidae 836
 Sebastolobus alascanus — see thornyhead, shortspine
 Settlement
 reef-fish larvae 404
 searobins 63
 snapper, gray 391
 Shad, American 632
 Shark
 blacknose 143
 bluntnose sixgill 861
 embryo re-identification 865
 mako, shortfin 865
 porbeagle 266, 727, 865
 sustainability of 800
 white 865
 Shrimp (fishery) 338
 Sillaginodes punctata — see whiting, King George
 Size
 composition, dhufish 214
 eel 299
 searobins 641
 squid, longfin inshore 200
 Skeletal morphology 865
 Skeletochronology 117
 Snapper, gray 391
 Snoek (South African) 690
 Sole, petrale 711
 Southeastern U.S. 181
 South Farallon Islands 51
 Species
 assemblages 836
 diversity 559
 endangered 466
 Spawning
 bass 632
 searobins 641
 shad 632
 snapper, gray 391
 Squid, longfin inshore 200
 Stenobranchius leucopsarus — see lampfish, northern
 Stochastic models 519
 Stock assessment
 porgy, red 351
 rebuilding plans 519
 sole, petrale 711
 Stock decline (red porgy) 351
 Strandings, dolphin 258
 Strongylocentrotus franciscanus — see sea urchins, red
 Submersible 193, 475, 865
 Survey design (longitudinal logbook) 228
 Swordfish 822

 Tagging 134
 and recapture 266
 drum, red 35
 halibut 414
 pop-up satellite 134
 recovery models 856
 rockfish 324
 shark, porbeagle 266
 sonic 324
 tuna 765
 Taiwan 822
 Tampa Bay 582
 TED (turtle excluder device) 466, 800
 Telemetry, ultrasonic 155, 448
Theragra chalcogramma — see pollock, walleye
 Thornyhead, shortspine 193
Thunnus
 albacares — see tuna, yellowfin
 maccoyii — see tuna, southern bluefin
 obesus — see tuna, bigeye
 thynnus — see tuna, bluefin
Thyrsites atun — see snoek (South African)
 Time isopleths (stock rebuilding) 519
Trachinotus falcatus — see permit
 Trawl
 bottom 593, 720
 herring 593

otter 338
shrimp 338
Trawl surveys 74, 593, 720, 836
Triglidae 63
Tuna
 behavior 155, 765
 bigeye 765
 bluefin 155, 168

 purse-seine fishery 90, 683
 southern bluefin 448
 yellowfin 386
Tursiops truncatus — see dolphin,
 bottlenose
Ultrasonic telemetry 148, 155, 448

Virginia 632
Virtual population analysis 351
Whiting, King George 545
Xiphias gladius — see swordfish
Xiphiids 537, 822