

Japan (PICES)

Motomitsu Takahashi, PhD

*Japan Fisheries and Education Agency
Research Scientist*



Fields:

- Fisheries biology, Fisheries oceanography

Major research topics:

- Biological mechanisms behind climate impacts on population dynamics of small pelagic fish
- Growth and survival dynamics during the early life stages of fish

Keywords:

- Population dynamics, species alternations, growth, survival, predation, recruitment, spawning habitat, reproductive biology, otolith, Kuroshio Current



USA (ICES)

Rebecca Asch, PhD

*Department of Biology,
East Carolina University
Associate Professor*

Current research and/or projects:

- Detectability of phenological changes in fisheries-independent time series
- Comparative reproductive phenology of SPF, focusing on changes & their drivers
- Climate change impacts on forage fishes in US National Marine Sanctuaries
- Effects of saltwater intrusion & low-flow events on estuarine fish community composition
- Impacts of ship-channel dredging on larval fish & zooplankton

Keywords:

- Early life history stages, spawning habitat, phenology changes, species distribution modeling, South Atlantic Bight, California Current System

Websites for research information:

- [Faculty profile](#)
- [Research Gate](#)
- [Google Scholar](#)



Portugal (ICES)

Susana Garrido, PhD

*Portuguese Institute for the Sea and Atmosphere,
Principal Researcher
Head of SPF Research group at IPMA, Head of Trophic
Ecology Lab*

Current research and/or projects:

- Trophic ecology
- Environmental impacts on early life stages of small pelagic fish
- Environmental control of small pelagic fish dynamics

Keywords:

- Trophic ecology, Population dynamics, growth, survival, recruitment, connectivity, reproductive biology, Canary Current, *S. pilchardus*, *E. encrasicolus*

Websites for research information:

- [Researchgate](#)
- [IPMA, SIBECORP](#)
- [MARE](#)

Canada (PICES co-chair)

Chris Rooper

*Pacific Biological Station, Fisheries and Oceans
Canada, Research Scientist*

Current research and/or projects:

- Modeling distribution and abundance of marine fishes under climate change
- Behavior and habitat use of marine fishes
- Developing underwater stereo-camera surveys for fishes and invertebrates
- Deep-sea corals and sponges

Keywords:

- Climate change, species distribution modeling, habitat, underwater cameras, survey methodology, spawning habitat, British Columbia, Alaska

Websites for research information:

- [Pacific Biological Station](#)
- [ResearchGate](#)
- [Github](#)





Japan (PICES)

Akinori Takasuka, PhD

*Graduate School of Agricultural and Life Sciences,
The University of Tokyo
Professor*

Current research and/or projects:

- Biological mechanisms behind climate impacts on population dynamics of small pelagic fish
- Growth and survival dynamics during the early life stages of fish
- Density-dependent and density-independent processes in the life history of fish

Keywords:

- Population dynamics, species alternations, growth, survival, predation, recruitment, spawning habitat, reproductive biology, otolith, Kuroshio Current

Websites for research information:

- [Research introduction page](#)
- [Fisheries Biology Laboratory](#)
- [Researchmap](#)

Norway (ICES)

Marta Moyano, PhD



*Norwegian Institute for Water Research (NIVA)
Senior Researcher
University of Agder – Adjunct Professor*

Current research and/or projects:

- Climate and environmental impacts on small pelagic fish – from ecophysiology at the individual level to population responses
- Growth and survival in early life stages of fish
- Offshore wind impacts on plankton and fish

Keywords:

- Ecophysiology, thermal limits, respirometry, plankton, recruitment, feeding dynamics, larval dispersal, North Sea, Baltic Sea, Canary Current.

Websites for research information:

- [NIVA website](#) (inc. project list)
- [Researchgate](#) / [Google Scholar](#)



USA (PICES)

Isaac Kaplan, PhD

*NOAA Northwest Fisheries Science Center, Seattle,
Research Fishery Biologist*

Fields:

- Ecosystem modeling, fish population biology

Major research topics:

- Food web impacts of fisheries and global change.
- Linking species distributions to seasonal ocean forecasts
- Evaluation of fisheries management strategies and harvest control rules.

Keywords:

- Ecosystem dynamics, California Current, sardine, anchovy, predators, ocean acidification, climate change

Websites for research information

- [Future Seas project](#)
- [Groundfish, Communities and Climate Change in the California Current](#)



China (PICES)

Peng Sun, PhD

*Fisheries college,
Ocean University of China
Professor*

Current research and/or projects:

- Population dynamics in marine fish and their assessment to provide fisheries advice.
- Long-term responses of fishery populations and ecosystems to climate change and fishing pressure.

Keywords:

- Ecosystem model, population dynamics, early life history, fisheries ecology, fisheries management, climate change biology, fisheries sustainability.

Websites for research information:

- [Research introduction page](#)
- [ResearchGate](#)
- [Introduction of Research Team](#)

Germany (ICES)



Stefan Koenigstein, Dr.

*Leibniz Centre for Tropical Marine Research (ZMT)
Postdoctoral Scientist*

Current research and/or projects:

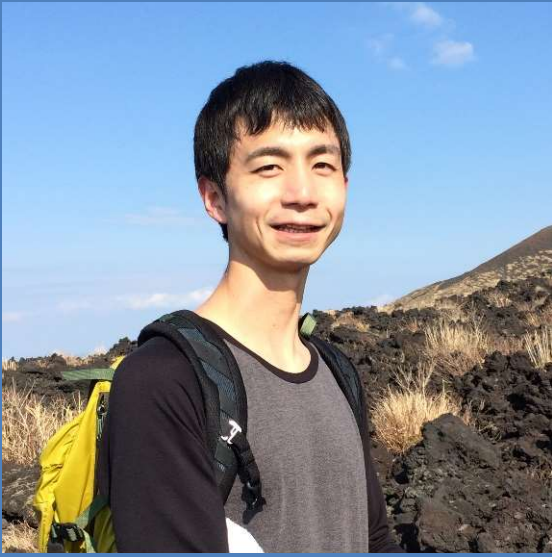
- Process-based modeling of fish populations and recruitment
- Using ocean-BGC models to project climate change impacts on marine fish and food-webs
- Upwelling systems variability, and adaptation of biota and user groups

Keywords:

- Fish ecophysiology, population dynamics, early life stage processes, models of intermediate complexity (MICE), food-webs, upwelling systems, Northern Humboldt Current, California Current

Websites for research information:

- [ZMT website](#)
- [Google Scholar page](#)
- [Researchgate](#)



Japan (PICES)

Mikio Watai, PhD

*Japan Fisheries Research and Education Agency
Fisheries Resources Institute
Senior Scientist*

Current research and/or projects:

- Egg and larval surveys in the Pacific coast of Japan
- The spawning and early life ecology of small pelagic fishes
- Early growth-dependent survival and distribution of bluefin tuna

Keywords:

- small pelagic fish, ichthyology, fisheries biology, early life ecology, marine ecology, Kuroshio Current

Websites for research information:

- [Researchmap](#)



USA (ICES/PICES)

Margaret Siple, PhD

*Alaska Fisheries Science Center
National Oceanographic and Atmospheric
Administration
Research Fish Biologist*

Current research and projects:

- Overlap between small pelagics and high-productivity hot spots in Alaska
- Incorporating climate effects into stock assessments and management
- Improving ecosystem indicators and indices of abundance for marine ecosystems

Keywords:

- Population dynamics, ecosystem indicators, predator-prey interactions, species distribution modelling

Websites for research information:

- [Google Scholar](#) / [ORCID](#)
- [Research website](#)



Germany (ICES)

Giannina Passuni, PhD

*Institute of Marine Ecosystem and Fishery
Science (IMF)*

University of Hamburg

Postdoctoral fellow

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Current research and/or projects:

- Alternative futures of the Northern Humboldt Current upwelling system under Shared Socioeconomic Pathways (SPP2).
- Exploring HUS-SSPs scenarios impact on the fish community.
- Modeling of species dynamics to account for biotic interactions.

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Keywords:

- Climate change adaptation, evaluation of impact risk and resilience, distribution models, regime shifts, population dynamics, Humboldt System, Benguela System.

Websites for research information:

- Humboldt tipping (<https://humboldt-tipping.org/en>)
- Researchgate

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Fields of your expertise. One or two.

Akinori Takasuka, 2020-02-12

AT19

Your current major research topics or projects. One to three. Max: 6 lines.

Akinori Takasuka, 2020-02-12



United States (PICES)

Brad Erisman, PhD

*NOAA / NMFS Southwest Fisheries Science Center
Supervisor - Life History Program*

Current research and/or projects:

- Life history (growth, reproduction, foraging, distribution) of marine fishes
- Reproductive dynamics (mating systems, sexual patterns, spawning behavior) of marine fishes
- Marine fisheries ecology: spatiotemporal interactions between fishes, fisheries, ecosystems, and environmental conditions
- Population structure of Pacific Sardine along the Pacific coast of North America

Keywords:

- Somatic growth, reproduction, mating systems, spawning aggregations, fish distributions, sound production, population structure.

Websites for research information:

- [Life History Program at SWFSC](#)
- [ResearchGate Profile](#)
- [Google Scholar Profile](#)

UK (ICES)

Susan Kenyon, PhD

*Centre for Environment, Fisheries & Aquaculture
Science*

Pelagic Fisheries Scientist



Current research and/or projects:

- Spatio-temporal dynamics in the bioenergetics of pelagic fish
- Drivers of variability in life-history traits of small pelagic fish
- Facilitating pelagic industry with scientific self-sampling initiatives

Keywords:

- Population structure, bioenergetics, growth, survival, annual cycles, spawning, reproductive biology, life-history strategies, herring, sardine

Websites for research information:

- www.cefas.co.uk
- [ResearchGate](https://www.researchgate.net)

Japan (PICES)

Hiroomi Miyamoto, PhD

*Highly Migratory Resources Division
Japan Fisheries Research and Education Agency
Senior Researcher*



Current research and/or projects:

- Spatial – temporal change of zooplankton community in the western North Pacific
- Feeding habits of small pelagic fish around Japan
- Stock assessment of Pacific saury
- Copepod and chaetognaths taxonomy

Keywords:

- Small pelagic fish, Zooplankton, Feeding habits, Biogeography, Taxonomy, Long-term change, Climate change, Community analysis, Zooplankton taxonomy.

Websites for research information:

- [Researchmap](#)



U.S.A (PICES)

Tim Essington

*School of Aquatic and Fishery Sciences
University of Washington
Professor and Director*

Current research and/or projects:

Adaptive capacity in fishery systems

Forecasting impacts of oxygen depletion and warming on marine taxa

Keywords:

- Quantitative fish and fisheries science; vulnerability assessment; species distribution modeling; California Current; Salish Sea;

Websites for research information:

[UW page](#)

[Google Scholar](#)



South Africa

Carryn de Moor, PhD

*Marine Resource Assessment and Management (MARAM) Group, University of Cape Town
Senior Research Officer*

Current research and/or projects:

- Advancing Ecosystem Based Fisheries Management using Management Strategy Evaluation
- Changes in small pelagic fish distribution and abundance in South Africa
- Multi-stock modelling (including estimation of mixing and/or movement)
- Is Dynamic B_0 useful and/or appropriate for SPF management advice?

Keywords:

- Quantitative stock assessments, fisheries management, management strategy evaluation, small pelagic fish

Websites for research information:

- [MARAM website](#)



Spain (ICES)

Andrés Ospina-Alvarez, PhD

*Mediterranean Institute of Advanced Studies
IMEDEA (CSIC-UIB),
Spanish National Research Council (CSIC)
Researcher*

Current research and/or projects:

- Using hydrodynamic-biological models, including Agent-Based Modelling (ABM), to study marine species' transport, dispersal, and connectivity.
- Developing indices that monitor equitable access to marine resources and conservation benefits for local communities living near MPAs.
- Evaluating fisheries' resilience to environmental changes and overfishing impacts on global seafood trade and supply chains.
- **Keywords:**
- Marine Connectivity, Dispersal, Networks, MPA, Equity, Ecosystem Services, Seafood Trade, Overfishing, Fisheries Resilience, Global Change.

Websites for research information:

- [Researcher profile](#)
- [IMEDEA \(CSIC-UIB\)](#)



Canada (PICES)

Francis Juanes, PhD

*Department of Biology, University of Victoria
Liber Ero Professor*

Current research and/or projects:

- Predator-prey interactions in piscivorous fishes
- Growth and survival dynamics during the early life stages of fish
- Underwater soundscapes and sound production in fishes

Keywords:

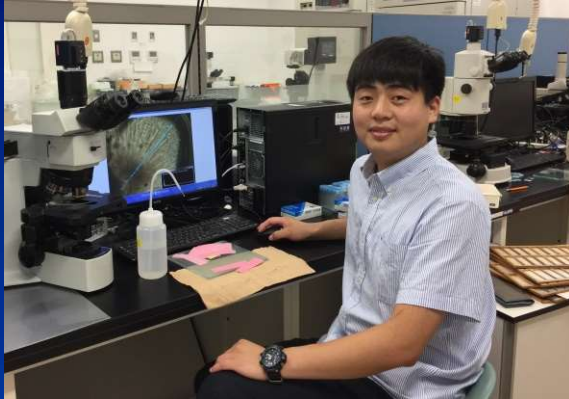
- Population dynamics, predator-prey, growth, survival, predation, recruitment, habitat, migration, otoliths, bioacoustics, Salish Sea

Websites for research information:

- <http://juaneslab.weebly.com/>
- https://www.researchgate.net/profile/Francis_Juanes
- <https://www.facebook.com/JuanesFishLab>

China (PICES)

Hui Zhang, PhD



*Institute of Oceanology, Chinese Academy of Sciences
Professor*

Fields:

- Fisheries Ecology, Fisheries Resources

Major research topics:

- Long term variation of ichthyoplankton community structure
- The impacts of Climate change and local environmental change on fish spawn and nursery ground
- Fish biodiversity based on genetic markers

Keywords:

- Ichthyoplankton, Fish biodiversity, Climate Change,
- Environmental DNA, Community structure, Genetic markers

zhanghui@qdio.ac.cn



USA (PICES)

Matthew Baker, PhD

*Science Director, North Pacific Research Board
Affiliate Researcher, NOAA Fisheries
Affiliate Professor, University of Washington, Fisheries*

Current research:

- Species distribution and climate
- Forage fishes (sandlance, herring, capelin, arctic cod), salmon, groundfish
- Habitat assessment, sampling approaches (surveys/cameras), life history studies

Keywords:

- Population dynamics, species distribution, predator-prey dynamics, habitat, cooperative research with industry, age/growth, recruitment, reproduction, Bering Sea, Aleutian Islands, Gulf of Alaska, Salish Sea

Websites for research information:

- <https://orcid.org/0000-0002-2501-181X>
- https://scholar.google.com/citations?user=V_ZXicIAAAAJ&hl=en
- www.nprb.org



USA (PICES)

Richard (Ric) Brodeur, PhD

*College of Oceanography and Fisheries
Oregon State University
Adjunct Professor
NMFS, NWFSC (retired)*



Current research and/or projects:

- Climate impacts on marine fish and ecosystems
- Distribution and ecology of the early life stages of fish
- Role of pelagic fishes in marine food webs

Keywords:

- Marine foodwebs, climate change, recruitment, early life history, predator-prey interactions jellyfish in ecosystems

Websites for research information:

- [Research Gate](#)
- [Google Scholar](#)

China (PICES/ICES)

Kui Zhang, PhD

*South China Sea Fisheries Research Institute,
Chinese Academy of Fishery Sciences
Associate Professor*



Current research and/or projects:

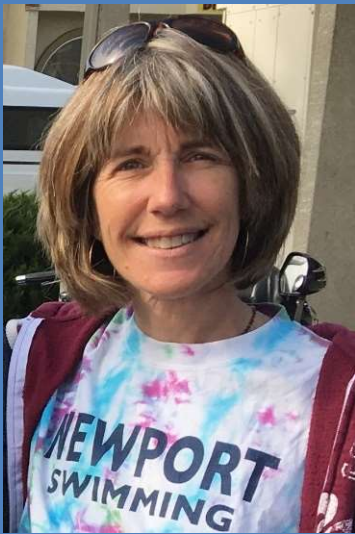
- Climate-induced small pelagic fish variations in typical marine ecosystems of the South China Sea
- Fish biology and stock assessment of small pelagic fishes
- Fishery management for multispecies fishery in the South China Sea

Keywords:

- Fish biology, population dynamics, stock assessment, fishery management, climate change, South China Sea

Websites for research information:

- [Researchgate](#)



USA (ICES/PICES)

Kym Corporon Jacobson

NOAA Fisheries, Northwest Fisheries Science Center, Newport, Oregon

Current research and/or projects:

- eDNA as a tool to inform occurrence and diversity of small pelagic fish in the Northern California Current
- Management of Coastal Pelagic Species as a member of the CPS Management Team of the Pacific Fisheries Management Council
- Larvae and recruitment of small pelagic fish from the Newport Hydrographic Line.

Keywords:

- Small pelagics, Northern California Current, management, diversity, eDNA, distribution, time series

Websites for research information:

- [Ocean Ecosystem Indicators](#)
- [Northern California Current MBON](#)
- [Pacific Fisheries Management Council](#)



SPAIN (ICES)

Marta Albo-Puigserver, PhD

*Oceanographic Centre of the Balearic Islands
Spanish Institute of Oceanography (IEO-CSIC)
Postdoc*

Current research and/or projects:

- Climate change adaptation in fisheries & blue foods
- Trophodynamics of small pelagic fish in the Mediterranean Sea

Keywords:

- Life-history traits, trophic ecology, bioenergetics, climate resilience, socio-ecological systems, fisheries, climate adaptation plans, local ecological knowledge

Websites for research information:

- [Spanish Institute of Oceanography profile](#)
- [ResearchGate profile](#)



Canada (ICES)

Hannah Murphy, PhD

*Northwest Atlantic Fisheries Centre (Newfoundland and Labrador), Fisheries and Oceans Canada
Research Scientist*

Current research and/or projects:

- Growth and survival during the early life stages
- Spawning dynamics
- Trophic food webs (larval, juvenile, and adult)
- Impact of heatwaves and coldspells on forage fish population dynamics

Keywords:

- Population dynamics, growth, survival, predation, recruitment, spawning dynamics, otolith, stock assessment, Northwest Atlantic

Websites for research information:

<https://www.researchgate.net/profile/Hannah-Murphy-12>



France (ICES)

Mathieu Doray, PhD

*DECOD (Ecosystem Dynamics and Sustainability),
IFREMER, INRAE, Institut Agro, Nantes, France.*

*IFREMER
Researcher*

Current research and/or projects:

- Space-time dynamics of small pelagic fish populations under fishing and climate forcing
- Trophic cascades in pelagic ecosystems, and their impacts on protected species and the fisheries sector
- Sustainable seafood systems

Keywords:

- Anchovy, sardine, population, community, aggregative behaviour, growth, fecundity, numerical ecology, habitats, fisheries, climate, integrated surveys, active acoustics, Bay of Biscay

Websites for research information:

- [Resume](#)
- [DECOD](#)
- [PELGAS survey](#)



Japan (PICES)

Tatsuya Sakamoto, PhD

*The Hakubi Center for Advanced Research,
Kyoto University
Assistant Professor*

Current research and/or projects:

- Assessing migrations of small pelagic fish and squids and the impact on their population dynamics and geochemical cycle
- Thermal response of growth and metabolic rates during the early life stages
- Understanding the impact of global warming on sardine and anchovy ecologies based on analysis of fossilized otoliths

Keywords:

- Population dynamics, sardine and anchovy, stable isotopes, eye lens, otolith, migration ecology, population structure, field metabolic rate, Portugal

Websites for research information:

- [Researchmap](#)



Spain (ICES)

Ignacio Catalán, PhD

*Mediterranean Institute for Advanced Sciences
(IMEDEA), CSIC-UIB
Senior Research Scientist*

Current research and/or projects:

- Growth and survival dynamics from eggs to age-0 of marine fish
- Integrated population studies within the Reproductive Resilience Paradigm frame (projects FISH_PARENTHOOD, METARAOR)
- Application of AI to automatic biological/fisheries data extraction

Keywords:

- Reproductive resilience, growth, survival, connectivity, recruitment, Mediterranean, fisheries

Websites for research information:

- [Research introduction page](#)
- [The MARES group](#)
- [Google stuff](#)



China (PICES)

Shuyang Ma, PhD

Now work at:

Fiskeridynamikk (Fishery dynamics)

Institute of Marine Research, Bergen, Norway

Postdoctoral Fellow/Research Scientist

Current research and/or projects:

- Climate-induced nonlinear dynamics of fishery population, community and ecosystem
- Climate risk assessment

Keywords:

- Climate change and variability, fishery, recruitment dynamics, statistical analysis (R), Northwest Pacific, Northeast Atlantic

Websites for research information:

[Researchgate](#)

[Institute of Marine Research](#)



Canada (PICES)

Jennifer Boldt, PhD

*Fisheries and Oceans Canada, Pacific Biological
Station, Nanaimo, BC
Research Scientist*

Current research and/or projects:

- Mechanisms linking climate and biological pressures to growth, survival, and recruitment of pelagic fishes
- Biotic and abiotic factors affecting distribution and abundance of pelagic fishes
- State-of-the-ecosystem reporting, ecosystem approaches to fisheries management

Keywords:

- Pelagic fish, distribution, abundance, growth, survival, recruitment, condition, ecosystem indicators, ecosystem approach, state of the ecosystem, Pacific

Websites for research information:

- [Research profile](#)

France (ICES)



Martin Huret, PhD

*IFREMER - French Research Institute for the
Exploitation of the Sea, Brest Center
Research Scientist*

Fields:

- Fisheries oceanography, Ecosystem modeling

Current research and/or projects :

- Biological mechanisms behind climate impacts on population dynamics of small pelagic fish, and transfer of the climate signal to the fishing sector
- Spatio-temporal processes responsible for the success of the life cycle closure
- Spatial and temporal variability in life history traits

Keywords:

Life cycle modeling, ELS dispersal, Individual-Based modeling, Bioenergetics, Population dynamics, Egg survey, Bay of Biscay, Anchovy, Sardine

Websites for research information:

- [Research introduction page with bibliography](#)
- [Research projects](#)





Japan (PICES)

Shin-ichi Ito, PhD

*Atmosphere and Ocean Research Institute, The University of Tokyo
Professor*

Current research and/or projects:

- Fish responses to global climate change
- Fish migration determination using fish growth-migration-population dynamics coupled model & otolith chemistry & eye lens chemistry
- Fish community structure determination using environmental DNA

Keywords:

- Climate change, mesoscale eddies, growth, survival, migration, distribution, community structure, population dynamics, species alternations, spawning migration, otolith chemistry, eye lens chemistry

Websites for research information: RC1

- [Research introduction page](#)
- [Fisheries Environmental Oceanography Group](#)
- [Orcid](#)

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RC1

Websites to learn your studies and publications. Use hyperlinks for the participants to access to your information directly by clicking here.
Rooper, Chris, 2024-10-01



Korea (PICES)

Haeyoung Choi, PhD

*Fisheries Resources and Environment Division,
South Sea Fisheries Research Institute,
National Institute of Fisheries Science
Researcher*

Current research and/or projects:

- Biological survey of key resources in the South Sea
- Study on spawning and nursery grounds in coastal and inner bay areas
- Recruitment in coastal fishing grounds
- Fisheries resources rebuilding research

Keywords:

- Ichthyoplankton, barcoding, spawning grounds, nursery grounds, recruitment, South Sea

Websites for research information:

- National Institute of Fisheries Science (<https://www.nifs.go.kr/eng/main.do>)
- [ResearchGate \(Haeyoung Choi\)](#)



Portugal (ICES)

Daniela Silva, PhD

*Portuguese Institute for the Sea and Atmosphere
(IPMA)*

Junior Researcher

Current research and/or projects:

- Spatial and spatio-temporal model species distribution data
- Study the dependence and correlation between fish abundance proxies and environmental/biological variables
- Jointly model FDD and FID data sources

Keywords:

- Spatial statistics, Geostatistics, Spatio-temporal modelling, Preferential sampling, Species Distribution Models, Integrating data sources

Websites for research information:

- [Orcid](#)
- [Github – R development](#)

Norway (ICES)

Florian Berg, PhD

*Institute of Marine Research, Bergen
Research professor*



Current research and/or projects: AT6

- HERPOPS: Assessing spatiotemporal dynamics in herring population structure under climate change
- ISHER: Implementing stock identification for sustainable harvesting of herring

Keywords:

- Population dynamics AT7 and structure, growth experiments, otolith research, survey design and stock assessment

Websites for research information: RC1

- [Personal webpage](#)
- [Researchgate](#)

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AT6

Your current major research topics or projects. One to three. Max: 6 lines.

Akinori Takasuka, 2020-02-12

AT7

Keywords for your studies. Max: 3 lines.

Akinori Takasuka, 2020-02-12

RC1

Websites to learn your studies and publications. Use hyperlinks for the participants to access to your information directly by clicking here.

Rooper, Chris, 2024-10-01



Portugal (ICES)

Dorota Szalaj, PhD

*Portuguese Institute of the Sea and the Atmosphere
(IPMA)
Researcher*

Current research and/or projects:

- Incorporation of ecosystem information into stock assessment and advice
- Spatial-temporal ecosystem modelling
- Impact of human activities and climate change on marine ecosystems

Keywords:

- Food web modelling, spatial-temporal modelling, Portuguese shelf ecosystem, fisheries management

Websites for research information:

- [Dorota Szalaj](#)

United States (PICES)

Barb Muhling, PhD

*University of California – Santa Cruz
NOAA Southwest Fisheries Science Center
Research Scientist*



Current research and/or projects:

- Species distribution modeling
- Climate change impacts on SPF in the California Current System
- Trophic ecology of predators foraging on SPF

Keywords:

- Species distributions, climate change, trophic ecology, California Current

Websites for research information:

- [Fisheries Collaborative Program](#)
- [Future Seas project](#)
- [Google Scholar](#)



Canada (PICES)

Brian Hunt, PhD

*Institute for the Oceans and Fisheries
University of British Columbia
Associate Professor*

Current research and/or projects:

- Food web structure and function in the Gulf of Alaska
- Forage fish driven Thiamine deficiency in Chinook salmon
- Pelagic habitat driven variability in forage fish nutritional quality
- Coastal development impacts on fish diversity

Keywords:

- Food webs, nutrition, stable isotopes, fatty acids, eDNA, coastal habitat, land-sea interface, Gulf of Alaska.

Websites for research information:

- <http://pelagicecosystems.oceans.ubc.ca/>