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Theme Session A

Atlantic redfish and Pacific rockfish: Comparing biology, ecology, assessment and management strategies for *Sebastes* spp (Joint ICES/PICES theme session)

Conveners: Benjamin Planque (Norway), Paul Spencer (USA), Christoph Stransky (Germany), and Steve Cadrin (USA)

Papers/Oral Presentations

[A:01](#) **Title:** Modeling the effect of climate variability on rockfish growth rates in the North Pacific: Empirical evidence for biophysical coupling

Authors: Thomas E. Helser, Bryan A. Black, and Vanessa R. von Biela

Keywords: climate change, fish growth, Bayesian inference, North Pacific

A:02 **Title:** Biology and fishery of red fish, *Sebastes oculatus* around the Falkland Islands (Southwest Atlantic)

Authors: Alexander Arkhipkin and Vladimir Laptikhovsky

Keywords: Patagonian red fish, *Sebastes oculatus*, Falkland Islands, ecosystem

[A:03](#) **Title:** The influence of maternal age on fishery harvest reference points

Authors: Paul D. Spencer, Sarah B. M. Kraak, and Edward A. Trippel

Keywords: maternal effects, rockfish, fishing reference points

[A:04](#) **Title:** Feeding of redfish *Sebastes mentella* in the Irminger Sea and adjacent waters– what data on diet indicate?

Authors: A. V. Dolgov, V. I. Popov, and A. Yu Rolsky

Keywords: biotope, diet, feeding, Irminger Sea, redfish

A:05 **Title:** Studies of biology and history of fisheries on *Sebastes mentella* in the Barents Sea and adjacent waters as a basis for future development of technical regulations for this stock

Author: Konstantin V. Drevetnyak

Keywords: Barents Sea, biology, fishery, management, redfish

[A:06](#) **Title:** Hybridization of redfish (*Genus Sebastes*) in the Irminger Sea and its significance for studies of population structure of beaked redfish *S. mentella*

Authors: Valentina S. Artamonova, Alexander A. Makhrov, Alexey Yu. Rolskiy, Yuri I. Bakay, and Victor I. Popov

Keywords: hybridization, interspecific population structure, *S. mentella*, Irminger Sea

A.07 **Withdrawn**

[A:08](#) **Title:** Feeding ecology of juvenile rockfishes off Oregon and Washington: insights into life history patterns based on stomach content and stable isotope analyses

Authors: Keith L. Bosley, Richard D. Brodeur, Todd W. Miller, Katelyn M. Bosley, Ahna Van Gaest, and Anna Elz

Keywords: feeding ecology, juvenile rockfishes, stomach analysis, carbon and nitrogen stable isotopes

[A:09](#) **Title:** Stochastic population dynamics of Beaked Redfish (*S. mentella*)

Authors: Eirin Bjørkvoll, Vidar Grøtan, Sondre Aanes, Bernt-Erik Sæther, Steinar Engen, and Ronny Aanes.

Keywords: none

A:10 **Withdrawn**

[A:11](#) **Title:** Assessment and status of the US Gulf of Maine-Georges Bank Acadian redfish stock

Authors: Timothy J. Miller and Steven X. Cadrin

Keywords: *Sebastes*, redfish, stock assessment

A:12 **Title:** The red- and rockfishes around the world: a history of divergence

Author: Fran Saborido-Rey

Keywords: *Sebastes*, rockfish, redfish

A:13 **Title:** Evaluating the role of predation by harbour seals and sea lions in the lack of recovery of B.C. inside waters yelloweye rockfish

Authors: M. K. McAllister and K. L. Yamanaka

Keywords: Rockfish, pinniped predation, stock recovery, Bayes factors

[A:14](#) **Title:** Multidecadal growth-increment chronologies for North Pacific and North Atlantic rockfish species

Authors: Bryan Black, Isaac Schroeder, William Sydeman, and Steven Bograd

Keywords: climate, rockfish, North Atlantic, North Pacific

[A:15](#) **Title:** Monitoring beaked redfish in the North Atlantic, current challenges and future prospects

Authors: Benjamin Planque, Kristján Kristinsson, Alexey Astakhov, Yuri Bakay, Matthias Bernreuther, Eckhard Bethke, Konstantin Drevetnyak, Kjell Nedreaas, Jakup Reinert, Alexey Rolskiy, Thorsteinn Sigurdsson, and Christoph Stransky

Keywords: *Sebastes mentella*, survey design, trawling, hydroacoustics, tagging, assessment, management

A:16 **Title:** Population structure of *Sebastes mentella* in the Norwegian Sea inferred from microsatellites

Authors: Torild Johansen, Tuula Skarstein, Jon-Ivar Westgaard, and Benjamin Planque

Keywords: Norwegian Sea, Barents Sea, beaked redfish, stock structure

A:17 **Title:** Recruitment of beaked redfish (*Sebastes mentella*) from the Greenland shelf into the pelagic of the Irminger Sea: Have we located the origin?

Authors: Matthias Bernreuther, Heino Fock, and Christoph Stransky

Keywords: Beaked redfish, recruitment, length-based, Greenland shelf, Irminger Sea

A:18 **Title:** Growth and production of Pacific ocean perch (*Sebastes alutus*) in nursery habitats of the Gulf of Alaska

Authors: Christopher N. Rooper, Jennifer L. Boldt, Sonia Batten, and Christopher Gburski

Keywords: Alaska, *Sebastes*, recruitment prediction, bioenergetics

[A:19](#) **Title:** Review of the fishery, biological research, assessment and management of Golden redfish (*Sebastes marinus*) in Icelandic waters

Authors: Kristjan Kristinsson and Thorsteinn Sigurdsson

Keywords: *Sebastes marinus*, fishery, assessment, management, advice, protection

[A:20](#) **Title:** Population characteristics of *Helicolenus dactylopterus* in the Azores.

Authors: R. M. Higgins, A. I. Ferreira, and E. Isidro.

Keywords: *Helicolenus dactylopterus*, otolith, trace element, age, growth model

A:21 **Withdrawn**

A:22 **Title:** Refinements to the exponential model index of inshore rockfish abundance based on hook timers and ROV observations of longlines

Authors: Shannon G. Obradovich and Murdoch K. McAllister

Keywords: rockfish, hook competition, exponential model

[A:23](#) **Title:** Geographical and Temporal Variation of Redfish (*Sebastes mentella*) Microsatellite DNA in the Irminger Sea and adjacent waters.

Authors: Daria A. Zelenina, Dmitry M. Schepetov, Alexander A. Volkov, Anna E. Barmintseva, Sergey P. Melnikov, and Nikolai S. Mugue

Keywords: the Irminger Sea, *Sebastes mentella*, genetic structure

A:24 **Title:** Application of an adaptive acoustic/trawl survey to reduce uncertainty in rockfish biomass estimates

Authors: Dana H. Hanselman, Paul D. Spencer, Denise R. McKelvey, and Michael Martin

Keywords: *Sebastes*, sampling design, trawl survey, acoustics, rockfish

[A:25](#) **Title:** Biology of Acadian redfish and implications for optimum yield in a mixed-species fishery

Author: Steven X. Cadrin

Keywords: redfish, *Sebastes fasciatus*, fishery management

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[A:26](#) **Title:** Feeding of three species from genus *Sebastes* in the Barents Sea

Authors: A. V. Dolgov and K. V. Drevetnyak

Keywords: Barents Sea, diet, feeding, redfish

A:27 **Withdrawn**

[A:28](#) **Title:** Discrimination of the redfish (*Sebastes mentella*) stock components in the Irminger sea and adjacent waters based on meristics, morphometry and biological characteristics

Authors: K. Trella, M. Podolska, K. Nedreaas, and J. Janusz

Keywords: *Sebastes mentella*, pelagic redfish, Irminger Sea, stock components, morphology

A:29 **Title:** Cohort-specific mortality and growth-selective survival of juvenile black rockfish *Sebastes cheni*: does habitat complexity decrease predation?

Authors: Yasuhiro Kamimura and Jun Shoji

Keywords: Seto Inland Sea in Japan, *Sebastes cheni*, macroalgae bed, survival

A:30 **Title:** SNPfisk: Use of Single Nucleotide Polymorphisms to improve fisheries management

Authors: Torild Johansen, Benjamin Planque, Lorenz Hauser, Steve Cadrin, Halvor Knutsen, Matthew Kent, Jon-Ivar Westgaard, and Sigbjørn Lien

Keywords: North Atlantic, redfish, Saithe, Greenland halibut, stock identification

A:31 **Title:** Documenting the collective experience in the assessment and provision of management advice for data-poor *Sebastes* species on the Canadian Atlantic and Pacific coasts

Authors: Murdoch K. McAllister and Daniel Duplisea

Keywords: *Sebastes* species, data poor, Bayesian state-space surplus production, threatened and endangered

A:32 **Title:** Cross-dating in a deep-sea species from Azores

Authors: A. I. Ferreira, R. M. Higgins, and E. Isidro

Keywords: *Helicolenus dactylopterus*; Sclerochronology; ageing; cross-dating; master chronology; age validation



A:33 **Title:** Depth goes the distance regarding *Sebastes mentella* genetic population structure across the North Atlantic

Authors: Alexandra Valentin, Cathrin Bunke, Don Power, Jochen H. Trautner, and Jean-Marie Sévigny

Keywords: North Atlantic, *Sebastes mentella*, population structure, depth

A:34 **Withdrawn**

A:35 **Title:** Species composition of historic recruitment pulses in the St. Lawrence system as revealed by the genetic analyses of archived otoliths

Authors: Alexandra Valentin, Don Power, and Jean-Marie Sévigny

Keywords: Atlantic Canada, archived otoliths, genetics, recruitment
