

INTERNATIONAL PACIFIC



HALIBUT COMMISSION
Celebrating 100 Years
1924-2024

Integrating biological research, fisheries science and management of broadly distributed flatfish species across the North Pacific Ocean in the face of climate and environmental variability

Workshop 7

2024 PICES Annual Meeting, 26 October 2024

Convenors:

Josep Planas, IPHC, U.S.A., corresponding
Mackenzie Mazur, D.F.O, Canada
Naoji Tojo, Hokkaido University, Japan
Roman Novikov, KamchatNIRO, Russia





PICES-2024
Oct 26 - Nov 1, 2024 Honolulu, USA

**The FUTURE of PICES:
Science for
Sustainability in 2030**

The collage on the right features various marine and environmental icons: a penguin, mountains, a globe with 'PICES', a life preserver, a whale, a boat, a diver, a turtle, a jellyfish, a coral reef, a lighthouse, a sailboat, and a shark.

- **Past and current activities within PICES**
 - Workshop #2: 2019 PICES Annual Meeting
 - Workshop #5: 2022 PICES Annual Meeting
 - Workshop #7: 2023 PICES Annual Meeting
 - **Workshop #7: 2024 PICES Annual Meeting**

PICES-2019 Annual Meeting: Connecting Science and Communities in a Changing North Pacific

PICES Press Vol. 28, No. 1

North Pacific Marine Science Organization

Integrating biological research, fisheries science and management of Pacific halibut and other widely distributed fish species across the North Pacific in the face of climate change and environmental variability

by Josep V. Planas, Gordon H. Kruse and Chris Rooper



Participants of Workshop 2 at PICES-2019, Victoria, Canada.

W2: FIS Workshop
Integrating biological research, fisheries science and management of Pacific halibut and other widely distributed fish species across the North Pacific in the face of climate and environmental variability

Co-sponsors: [IPHC](#)

Duration:

1 day

Convenors:

Josep Planas, *corresponding*

(International Pacific Halibut Commission - IPHC)

Gordon Kruse

(University of Alaska Fairbanks, USA)

Chris Rooper (DFO, Canada)

Roman Novikov

(Kamchatka Research Institute of Fisheries and Oceanography, Russia)

Naoki Tojo

(Hokkaido University, Japan)

• **3 invited talks**

Invited Speakers:

[Janet Duffy-Anderson](#) (NOAA, USA)

[Mark Lomeli](#) (PSMFC, USA)

[David Wilson](#) (IPHC)

• **14 oral presentations**

• **9 posters**

• **40 attendees**



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Publication of a special issue in *Fisheries Research*



Fisheries Research
Supports open access

4.5
CiteScore

2.2
Impact Factor

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Special issue

Integrating biological research, fisheries science and management of Pacific halibut (*Hippoglossus stenolepis*) across the North Pacific Ocean

Last update 29 November 2022

The Pacific halibut (*Hippoglossus stenolepis*) is a key species in the North Pacific Ocean ecosystem due to its wide distribution along the continental shelf and to its important trophic position. In addition to its key ecological role, the Pacific halibut is highly relevant from a socio-economic and cultural perspective in the North Pacific Ocean region because it supports important commercial, recreational and ceremonial or subsistence fisheries. In the Northeastern Pacific Ocean, the Pacific halibut stock in waters off North America is managed by the International Pacific Halibut Commission (IPHC) that also conducts research on the biology of the species. Due to its highly migratory nature, its key ecological role and its wide distribution in the North Pacific Ocean, increased efforts are needed to expand and integrate information on the biology and the management of the Pacific halibut across all countries involved in its fisheries, particularly in the face of a changing North Pacific Ocean. Therefore, the main objective of this special issue is to provide state-of-the-art information on important current topics related to the biology of Pacific halibut as well as fishery management and policy issues for this important fish species.

Guest Editors:

Josep Planas

Gordon Kruse

Chris Rooper

Roman Novikov

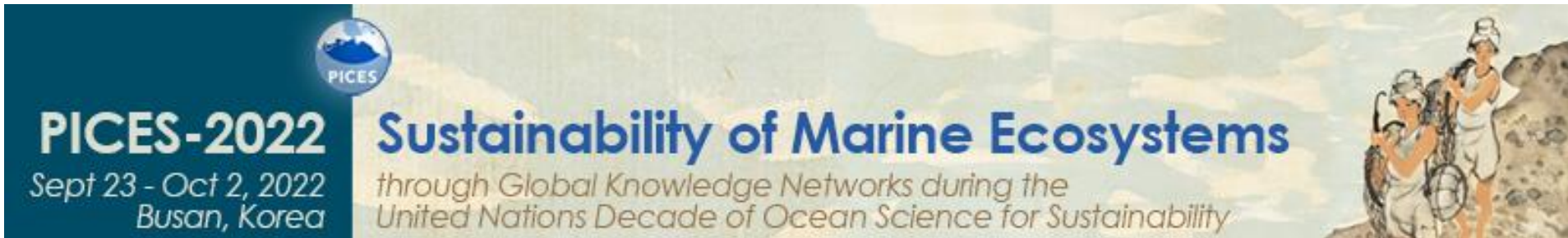


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Workshop 5

2022 PICES
Sunday, Sept 25
Busan, Korea

7 oral presentations

W5: FIS Topic Workshop
Integrating biological research, fisheries science and management of broadly distributed flatfish species across the North Pacific Ocean in the face of climate and environmental variability

Vol. 31, No. 1 | Winter 2023

PICES PRESS NORTH PACIFIC MARINE SCIENCE ORGANIZATION

PICES-2022 W5: Integrating biological research, fisheries science & management of broadly distributed flatfish species across the North Pacific Ocean in the face of climate and environmental variability
Josep Planas (corresponding; USA), Chris Rooper (Canada), Naoki Tojo (Japan), Roman Novikov (Russia)

Background

The North Pacific Ocean is a large and productive ecosystem characterized by strong interdecadal climate variability. This Ocean basin supports a number of fish species of great ecological and economic importance. A successful PICES

The second invited speaker, Dr. Patrick Thompson of Fisheries and Oceans Canada, gave a live online presentation on the effects of changes in temperature and oxygen concentrations in waters off the West coast of the

Naoki Tojo (Japan)

Invited Speakers:
[Melissa Haltuch](#)
 (Northwest Fisheries Science Center, NOAA, USA)
[Patrick Thompson](#)
 (Pacific Biological Station, Fisheries and Oceans Canada)
[Takeshi Tomiyama](#)
 (Hiroshima University, Japan)



W7: FIS Topic Workshop

NORTH PACIFIC MARINE SCIENCE ORGANIZATION

PICES PRESS

Vol. 32, No. 2 | Summer 2024

PICES 2023 Workshop Report - W07

Integrating biological research, fisheries science and management of flatfish species in the North Pacific Ocean in the face of climate and environmental variability

Josep Planas, Mackenzie Mazur, Naoki Toj, and Roman Novikov

Convenors

- Josep Planas (corresponding; USA)
- Mackenzie Mazur (Canada)
- Naoki Tojo (Japan)
- Roman Novikov (Russia)

Invited Speakers

- Dr. Philina English (DFO, Canada)
- Dr. Allan Hicks (International Pacific Halibut Commission, USA)
- Dr. Noelle Yochum (Trident Seafoods, USA)

introduction to the Workshop. The session featured 3 invited presentations and 9 regular oral presentations. The various presentations covered specific topics related to a) assessing the effects of environmental variability on the Pacific halibut fishery (English, Hicks, Webster, Young), b) food webs and productivity (Surma, Wolf), c) population genomics (Jasonowicz), d) parasitic infections (Kroska), e) bycatch and depredation (Yochum, Christie, Dykstra), and f) reproductive biology (TenBrink, Jones).

After the presentations, a discussion session took place among participants. The discussed topics including next steps for methods to understand the impact of climate change on flatfish species, improved understanding of the impacts of climate change on flatfish and implications

Allan Hicks

(International Pacific Halibut Commission (IPHC), Seattle, WA, USA)

Noëlle Yochum

(Fishing Innovation and Sustainability, Trident Seafoods, Seattle, WA, USA)

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... North Pacific Ocean in the
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... FO, BC, Canada)

Workshop 7

2023 PICES
Sunday, Oct
Seattle, WA

13 oral pres



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Workshop 7

2024 PICES Annual Meeting
Saturday, October 26, 2024
14:00 – 17:00
Honolulu, HI (USA)

6 oral presentations (1 invited)

W7: **FIS** Topic Workshop
Integrating biological research, fisheries science and management of flatfish species in the North Pacific Ocean in the face of climate and environmental variability

Co-sponsor:

[IPHC](#)

Duration:

TBD

Convenors:

Josep Planas (USA), *corresponding*

Mackenzie Mazur (Canada)

Roman Novikov (Russia)

Naoki Tojo (Japan)

Invited Speaker:

[Shuyang Ma](#)

(Institute of Marine Research (IMR), Bergen, Norway)



Workshop 7: Agenda

14:00-14:10 Welcome and Introduction to the Workshop

14:10-14:40 Invited Speaker: *How to explore climate-induced fish population dynamics? – conceptual frameworks and statistical advancements.* – Dr. Shuyang Ma, Institute of Marine Research, Bergen, Norway.

14:40–15:00 Oral Communication: *Can nearshore surveys improve management of flatfishes with coastal habitat dependencies?* – Dr. Lorenzo Ciannelli, Oregon State University, Corvallis, Oregon, USA (PRE-RECORDED).

15:00-15:20 Oral Communication: *How are environmental conditions influencing productivity of Petrale Sole in Canada?* – Dr. Philina English, Fisheries and Oceans Canada, Nanaimo, British Columbia, Canada.

15:20-15:40 Coffee Break

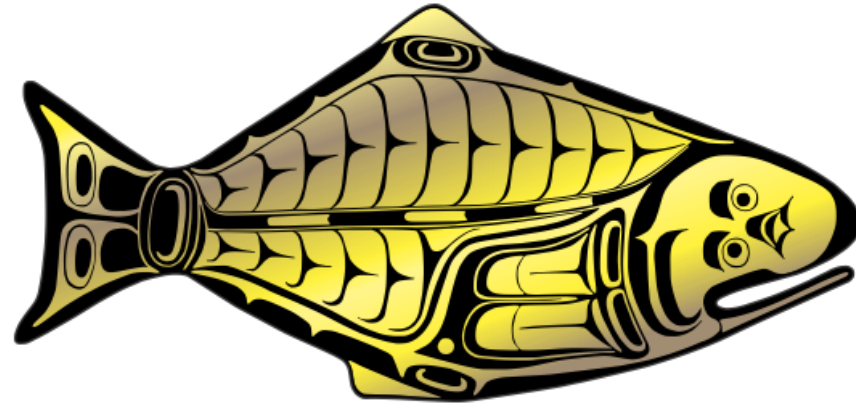
15:40–16:00 Oral Communication: *Non-Linear Catchability and Optimal Fisheries Management Target.* – Dr. Minling Pan, NOAA Pacific Islands Fisheries Science Center, Honolulu, Hawaii, USA.

16:00-16:20 Oral Communication: *Spatial characterization of histology-based maturity estimates for female Pacific halibut in the Northeastern Pacific Ocean.* – Dr. Josep Planas, International Pacific Halibut Commission, Seattle, Washington, USA.

16:20-16:40 Oral Communication (Pre-recorded): ~~*Evaluating the impact of age data on Petrale Sole stock assessment and management under varying environmental conditions.*~~ — ~~Dr. Mackenzie Mazur, Fisheries and Oceans Canada, Nanaimo, British Columbia, Canada.~~ (WITHDRAWN).

16:40-17:00 Discussion

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