



Objectives of Working Group 35

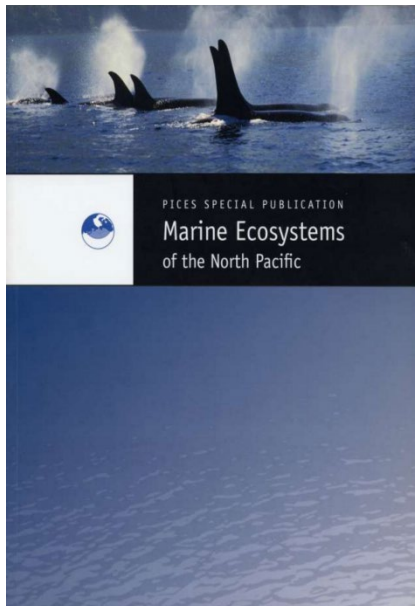
1. Publish the Third North Pacific Ecosystem Status Report
NPESR-3: period of interest 2009 – 2015.
2. Establish an online system to develop a database of
Ecosystem Time Series Observations (ETSOs).

Co-chairs: Peter Chandler (Canada) Sinjae Yoo (Korea)

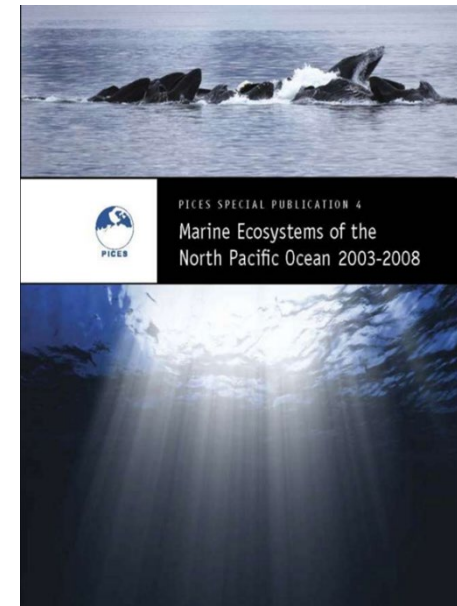


NPESR-3

Is the third in a series of North Pacific Ecosystem Status Reports (NPESR) to assess the status and trends in North Pacific marine ecosystems, and the vulnerability and resilience of ecosystems to changes in the climate and human activities.



NPESR- 1. *Perry, R.I. and McKinnell, S.M. [Eds.] 2004, 280 p.*



NPESR-2 *McKinnell, S.M. and Dagg, M.J. [Eds.] 2010, 393 p.*



The North Pacific Ecosystem Report will assess the status and trends in North Pacific marine ecosystems 2009-2015. It is comprised of a series of regional assessments that become chapters in the final document. At a synthesis meeting the lead authors of the regional assessments will write the **synthesis chapter** of the North Pacific Ecosystem Status report.

Highlights

Introduction

Atmosphere

(temperature, sea level pressure)

Physical Ocean

(Currents, hydrography/stratification,
seasonal sea ice, rivers)

Chemical Ocean

(oxygen, nutrients, OA)

Phytoplankton

Biomass

Productivity

HABS

Zooplankton

Microzooplankton

Mesozooplankton

Ichthyoplankton

Gelatinous zooplankton

Fishes and Invertebrates

Species Composition/Diversity

Catch and Biomass

Distribution

Recruitment

Benthos

Biogenic habitat (e.g. eelgrass, coral)

Marine Birds

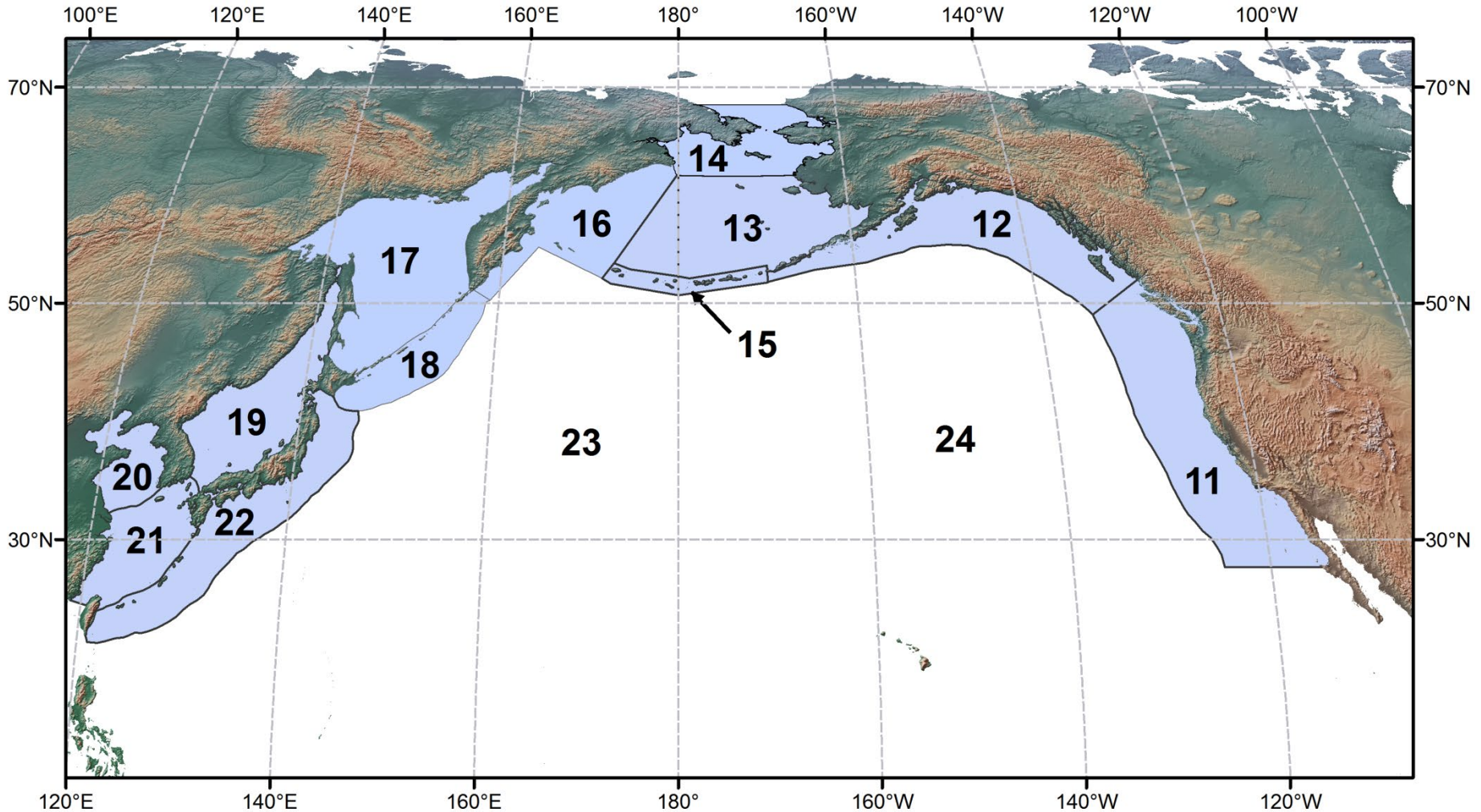
Marine Mammals

Pollutants/Contaminants

Human Dimensions

Catch value, Fisheries
participation/employment, Aquaculture
(production volume, value)

Climate Change, Ecosystem Considerations & Emerging Issues



PICES Classification for Regional Assessments



NORTH PACIFIC MARINE SCIENCE ORGANIZATION

WG-35 North Pacific Ecosystem Status Report

FUTURE
Plenary 2018
Yokohama

16: Kirill Kivva **13:** Ivonne Ortiz **14:** Matt Baker **15:** Elizabeth Siddon

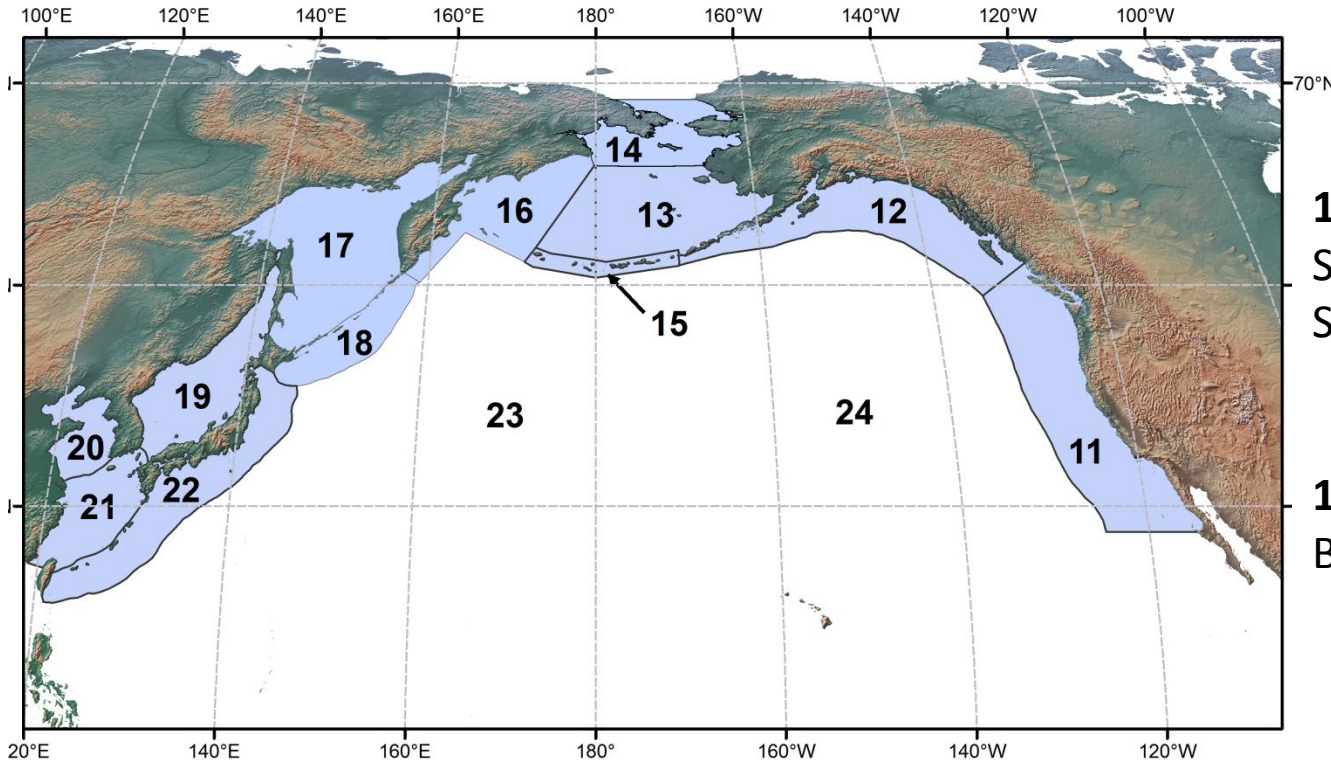
17:
Yury Zuenko

18:
Hiroshi
Kuroda

19:
Vyacheslav
Lobanov

20:
Sinjae Yoo

21:
Yu Fei



12:
Stephani Zador,
Steve Kasperski

11:
Bill Sydeman

22: Kazuaki Tadokoro **23:** Tsuneo Ono **24:** Sonia Batten

Human Dimensions: Keith Criddle

North Pacific Climate Variability: Nick Bond

Lead Authors for Regional Assessments



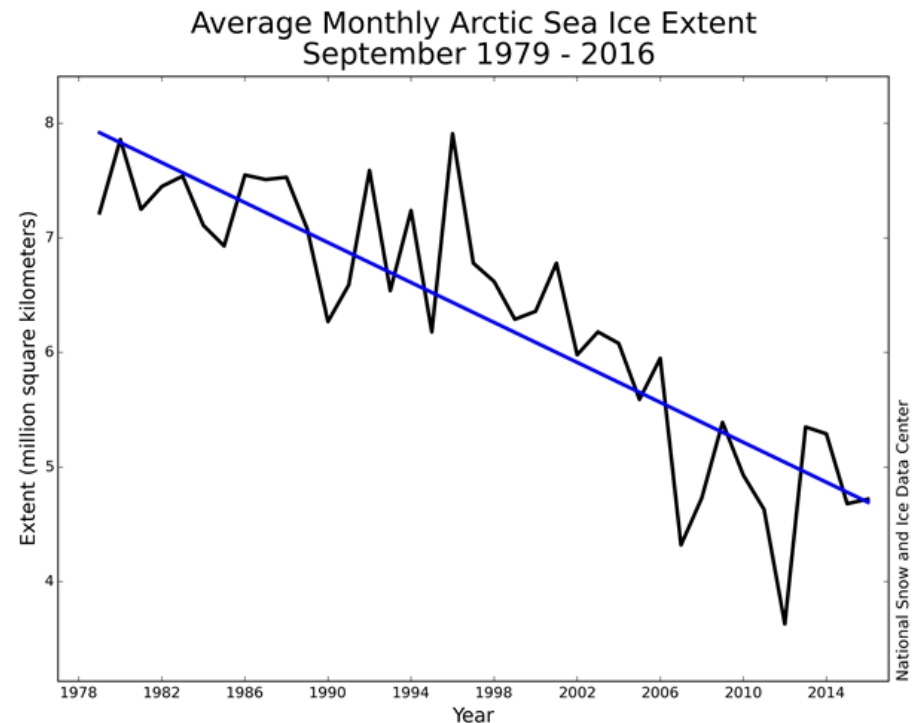
Environmental Time Series Observation ETSO

A time series of a parameter that can be used to describe the environment.

Can include actual data (size limited) or a representation of the data such as a figure or summary table.

ETSOs are submitted using on-line website. (www.pices.submittable.com)

Archived in on-line searchable database with metadata.



Mean arctic sea ice extent (concentrations exceeding 15%) during September of the years of 1979 through 2016 from NSIDC.



Title *

Enter a title for your submission

NPESR Geographic Location *

The geographic unit to which the invitation to submit data refers.
[map](#)

PICES Committee *

Nation *

Contributed By:

Contact Author: *

First and Last name of author to contact with questions.



Body of Contribution

Choose Files

Upload a file containing the body of your contribution.

Select up to 8 files to attach. No files have been attached yet.

Figure(s) and/or Table(s) that illustrate the ETSO

Choose Files

Upload figures and tables as jpg, png, or pdf in highest resolution possible. Tables and figures are formatted for journal publication with axes suitably and legibly labeled.

Select up to 75 files to attach. No files have been attached yet.

Data and Metadata

Choose Files

Upload raw data/background data files in any format listed to the left. Select up to 20 files to attach.

Select up to 20 files to attach. No files have been attached yet.

Acceptable file types: pdf, doc, docx, txt, rtf, jpg, jpeg, gif, mp3, mp4, m4a, zip, tif, tiff, png, wpf, odt, wav, mov, xls, wpd, ppt, pptx, avi, mpg, xlsx, sib, mus, 3gp, flv, webm, psd, ai, mobi, epub, wmv, eps, key, ogg, aac, flac, aiff, wma, mkv, musx, ibooks, iba, tex, bbl, ltx, m4v, svg, fdx.



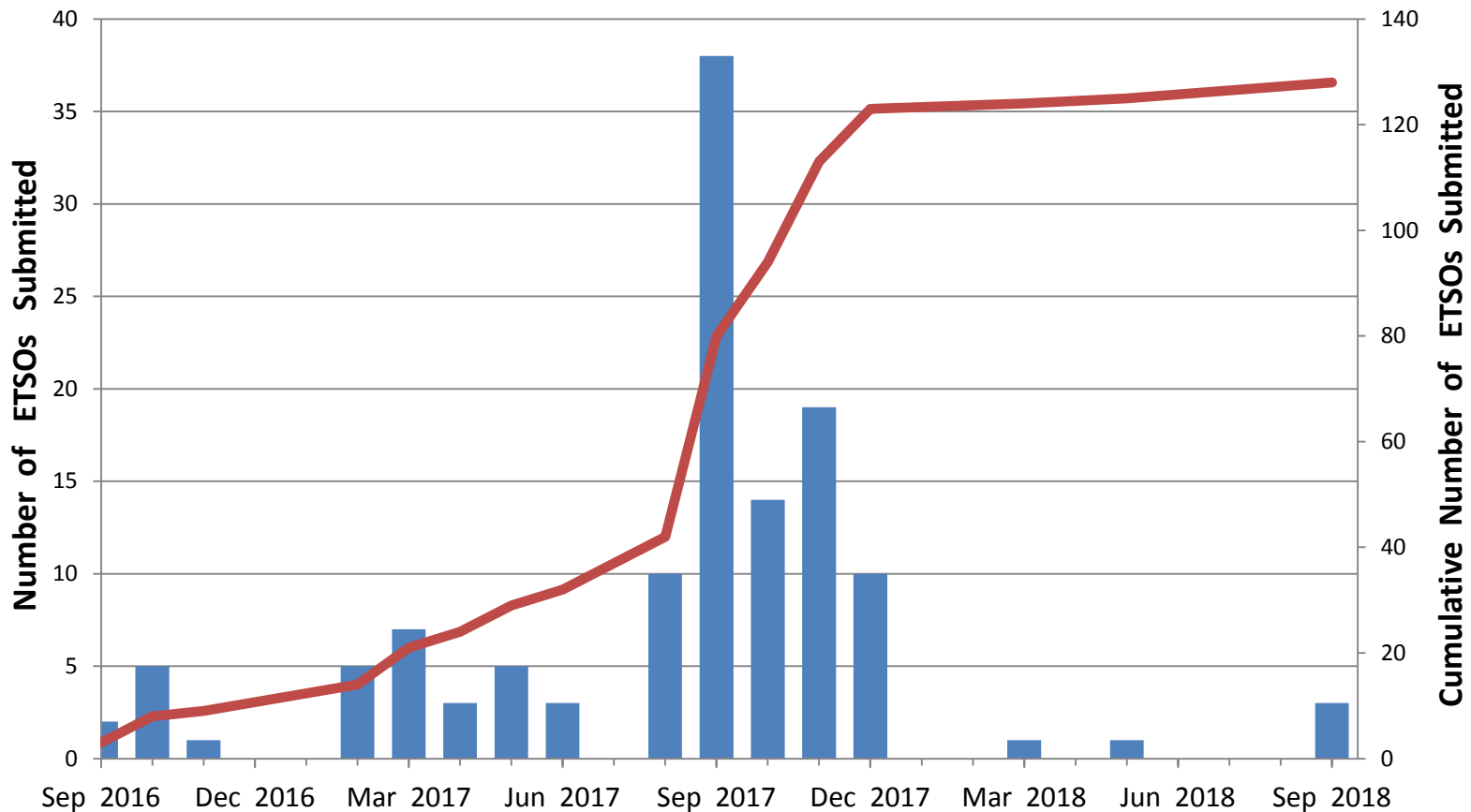
**North Pacific Ecosystem Status Report –
Ecosystem Time Series Observations**

More ▾

Submit



Given the cloud-based structure of the system ETSOs can be submitted asynchronously and there is no limit on how many are submitted.





		Key Milestones
2017	Summer	<ul style="list-style-type: none">• Confirm Lead Authors• ETSO submissions ready for Lead Authors
	Fall	<ul style="list-style-type: none">• Submit regional assessments to Editorial Board
	Winter	<ul style="list-style-type: none">• Complete review of regional assessments by Editorial Board, submit to Monitor and Future
2018	Spring	<ul style="list-style-type: none">• Regional Assessments become PICES publications
	Summer	<ul style="list-style-type: none">• Synthesis workshop and writing of NPESR-3
	Fall/Winter	<ul style="list-style-type: none">• Submit NPESR-3 for review by Editorial Board, submit to Monitor and Future
2019	Spring	<ul style="list-style-type: none">• Publish NPESR-3



The proposed approach proved unrealistic due to three main factors:

1. A lack of ETSO submissions; while many appropriate ETSOs were nominated for submission this did not always occur.
2. Uncertainty around who is responsible to contribute the ETSOs, and the communication between ETSO contributors and lead authors.
3. Confusion for lead authors on how to proceed given the lack of ETSOs.

Revised plan:

1. A series of foundational ETSOs (e.g. sea surface temperature, salinity, oxygen, plankton, chl-a) will be generated and made available to every lead author.
2. PICES will identify a person dedicated to submitting ETSOs to database and communicating with the lead authors of each region.
3. The regional assessments will be limited to about 30 pages, with an emphasis on information relevant to writing the synthesis chapter of NPESR-3.



Based on discussions during the Saturday October 27th 2018 WG-35 business meeting.

		Key Milestones
2018	December	<ul style="list-style-type: none">• Foundational ETSOs provided to lead authors• Lead authors continue to develop regional assessments
2019	January	<ul style="list-style-type: none">• First half of regional assessments submitted to Editorial Board
	February	<ul style="list-style-type: none">• Second half of regional assessments submitted to Editorial Board
	March/April	<ul style="list-style-type: none">• Editorial board reviews regional assessments
	April/May	<ul style="list-style-type: none">• Synthesis workshop and writing of NPESR-3 just prior to ISB
	Summer	<ul style="list-style-type: none">• Submit NPESR-3 for review by Editorial Board, submit to Monitor and Future
2019	PICES 2019	<ul style="list-style-type: none">• Present NPESR-3

With the understanding we are asking busy people to find the time to carryout this work.