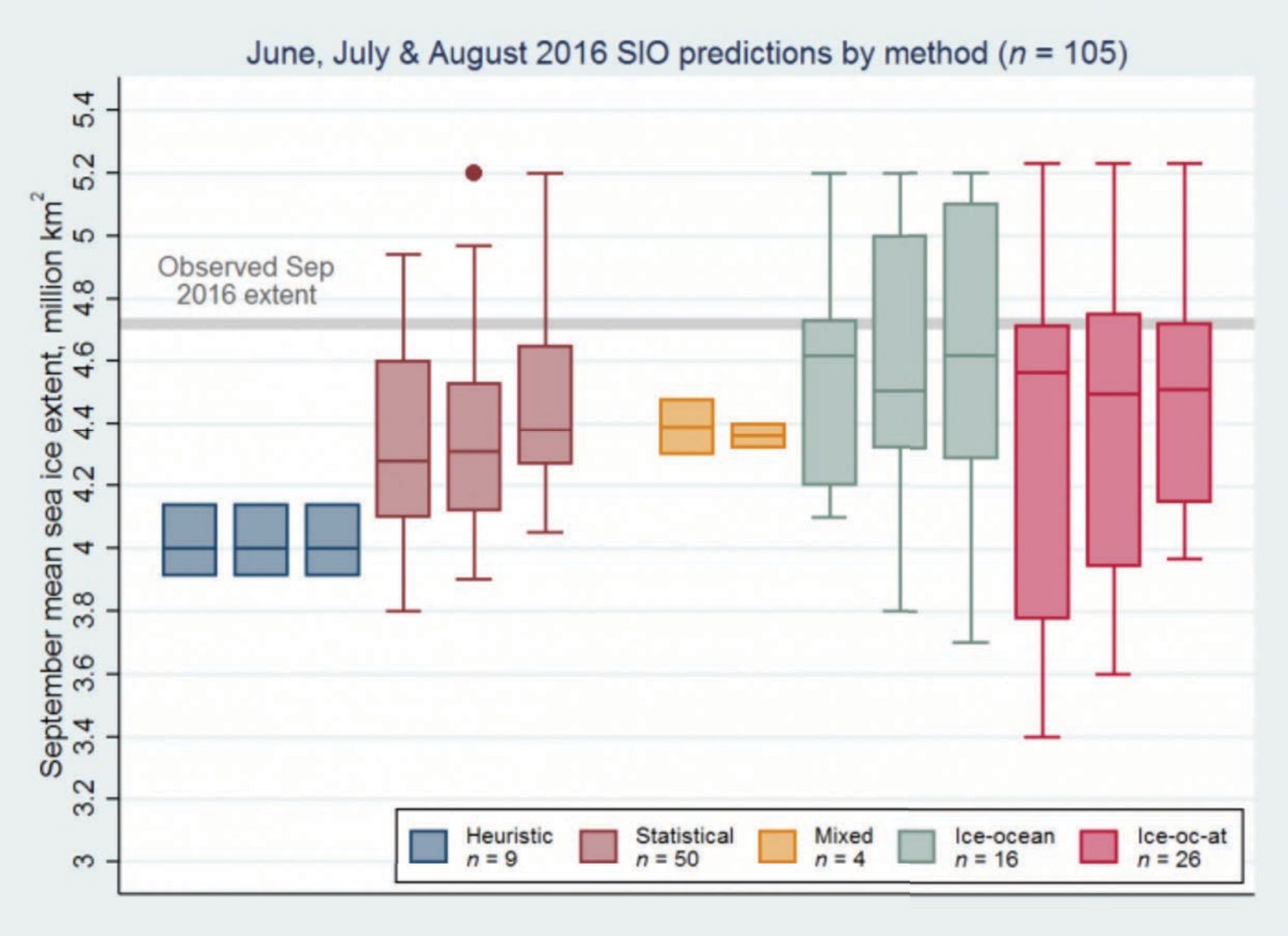
Welcome

Sea Ice Prediction Network
AGU 2016 Network Meeting

Agenda

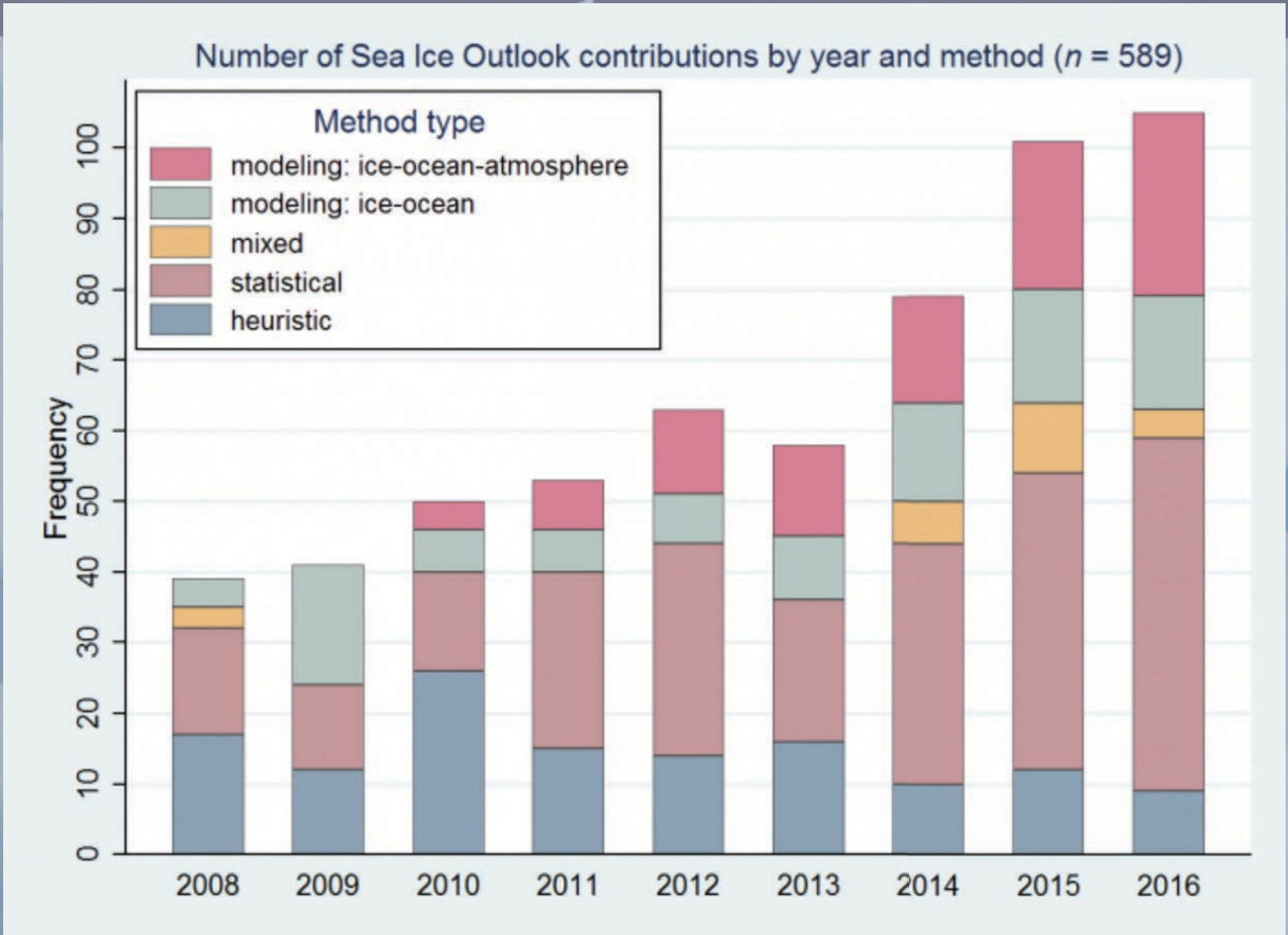
Introductions, Overview
Post Season Discussion
SIPN Next Phase
FAMOS Report
Wrap-up

2016 Season Re-Cap



Hamilton & Stroeve, 2016

2016 Season Re-Cap



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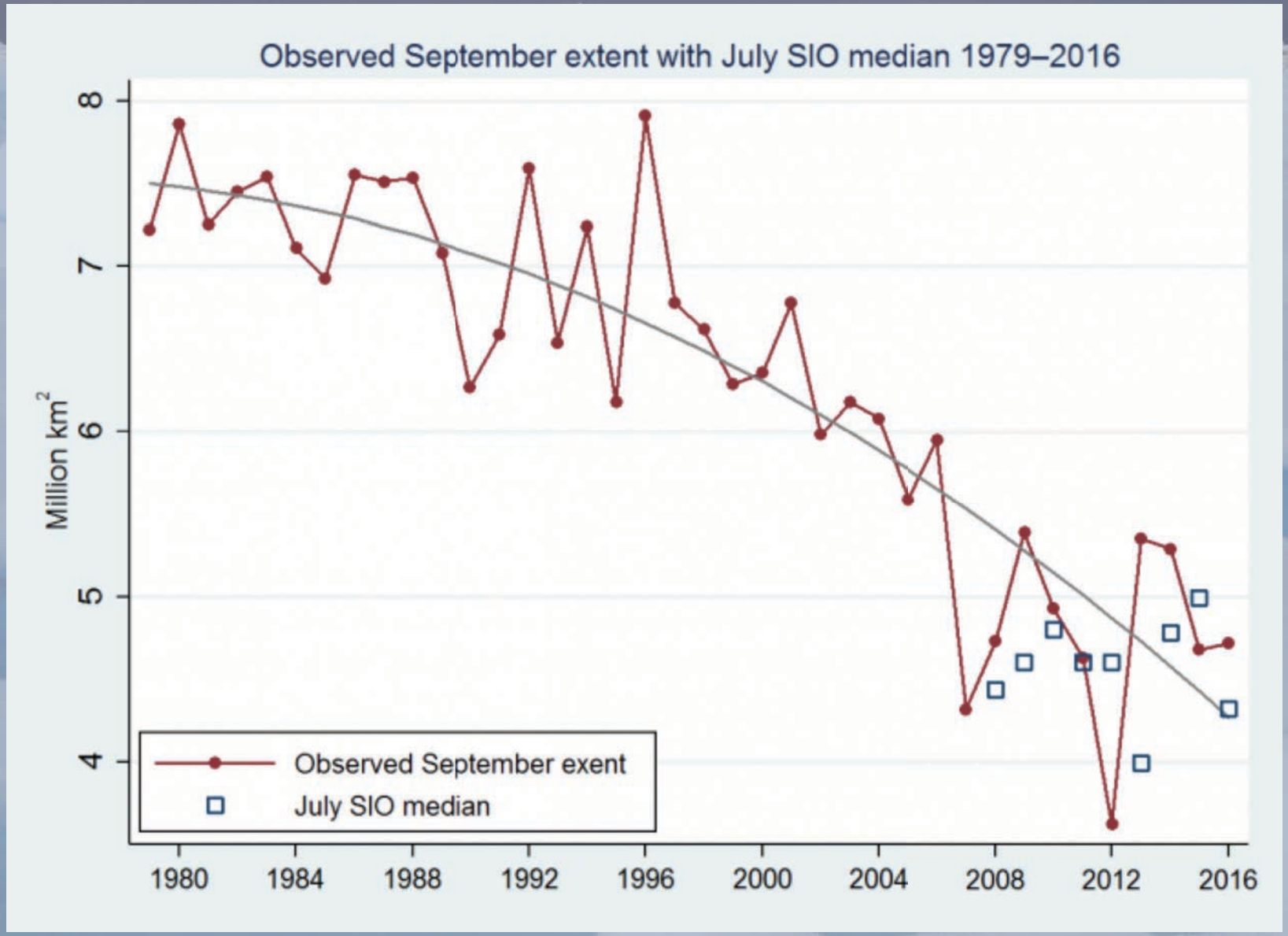

Hamilton & Stroeve, 2016

2016 Post Season Report

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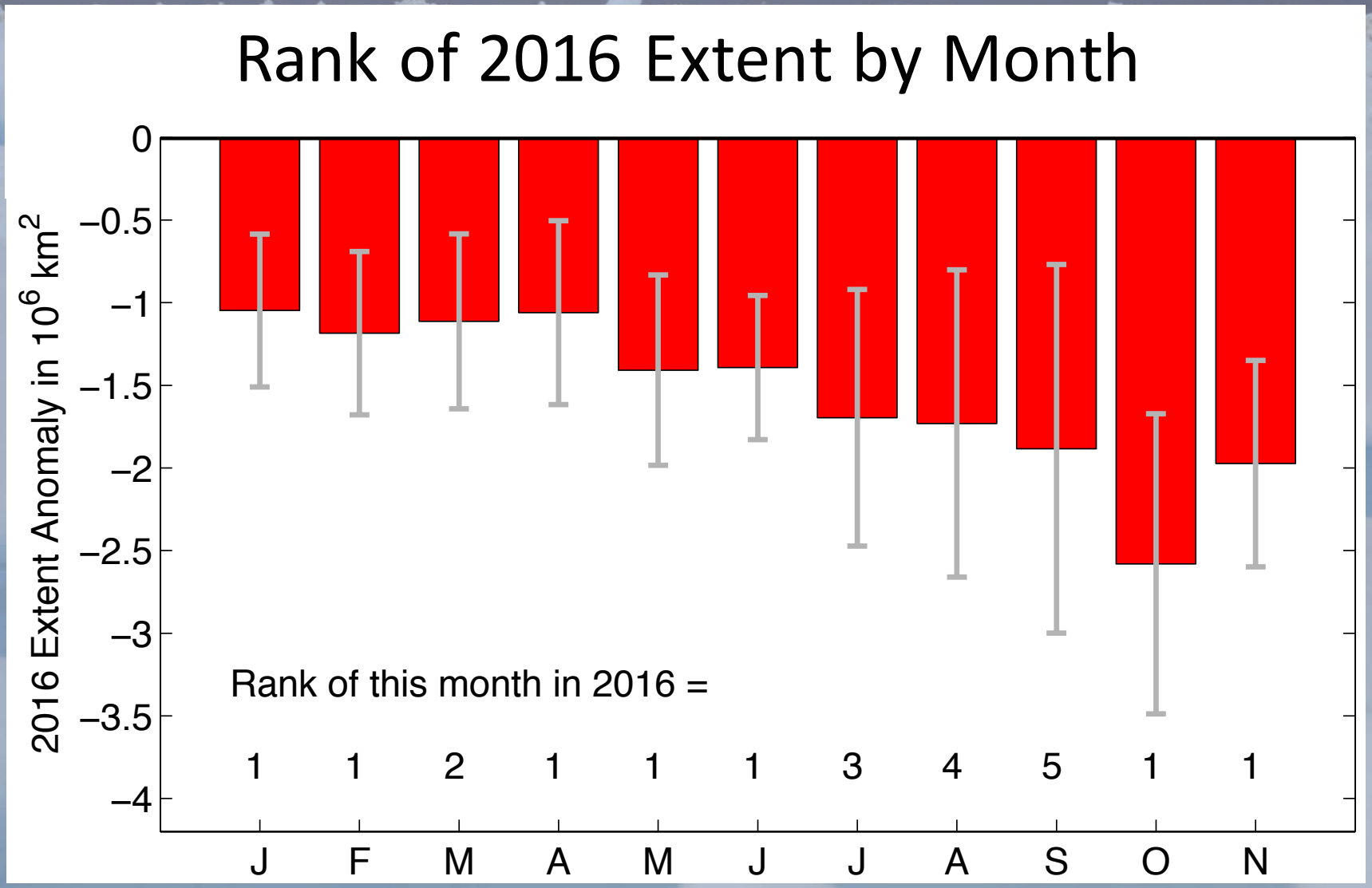
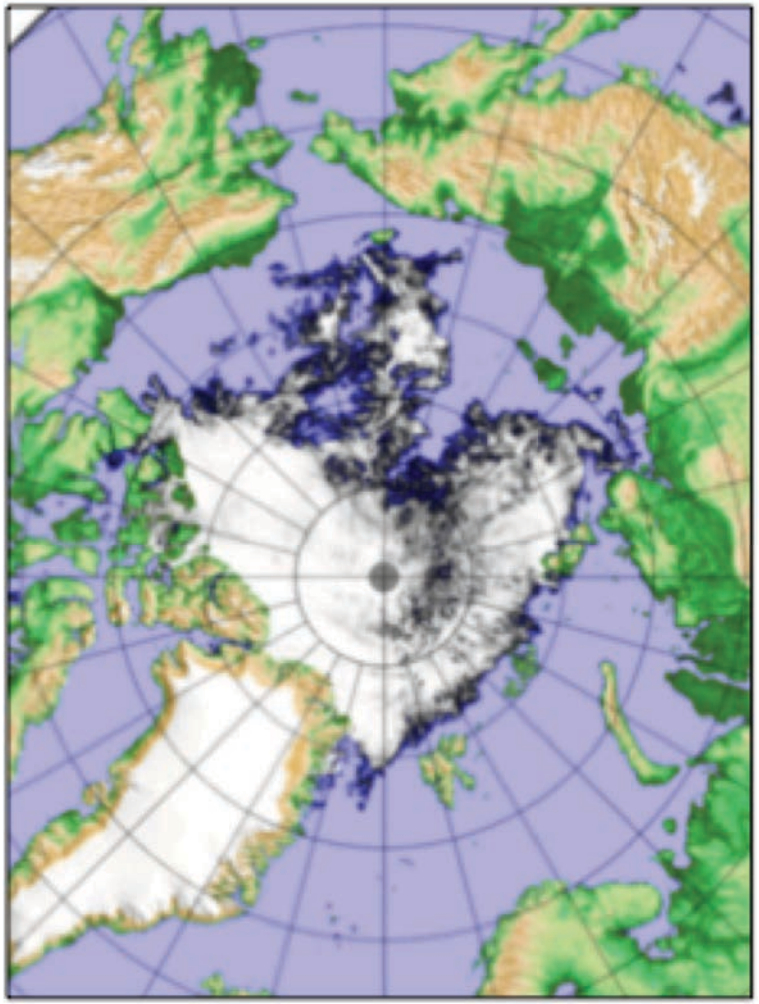
Ed Blockley
Gisele Aruda
Alex Petty
Eduardo Blanchard-Wrigglesworth
Cecilia Bitz

2016 Post Season Report



2016 Post Season Report

16 August 2016



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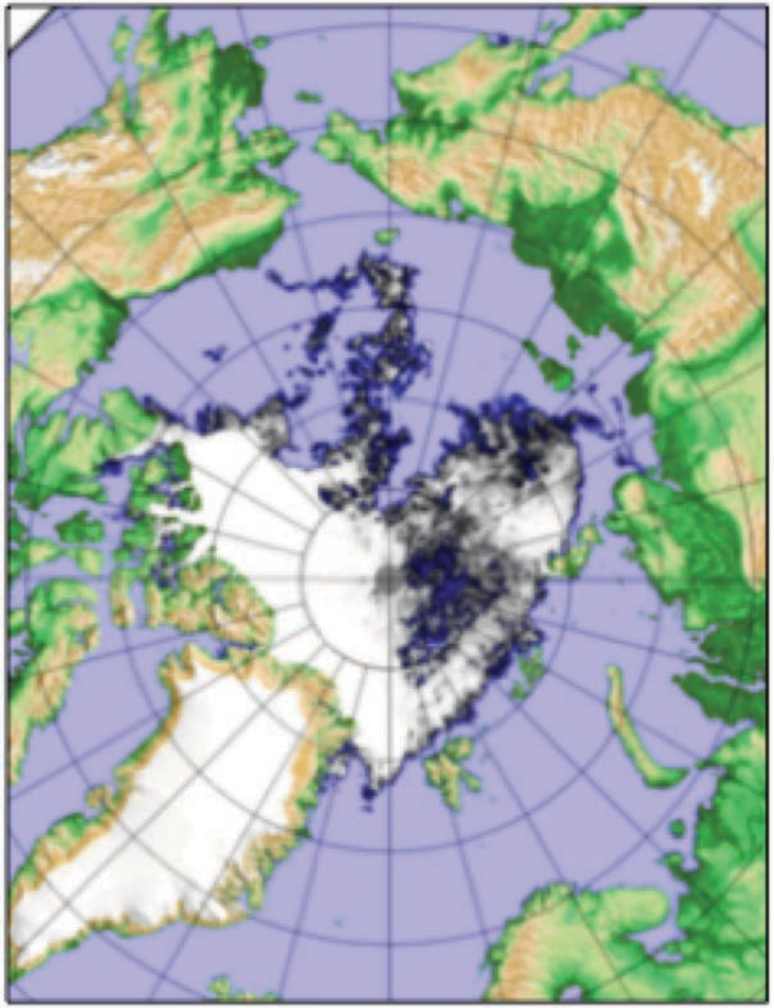

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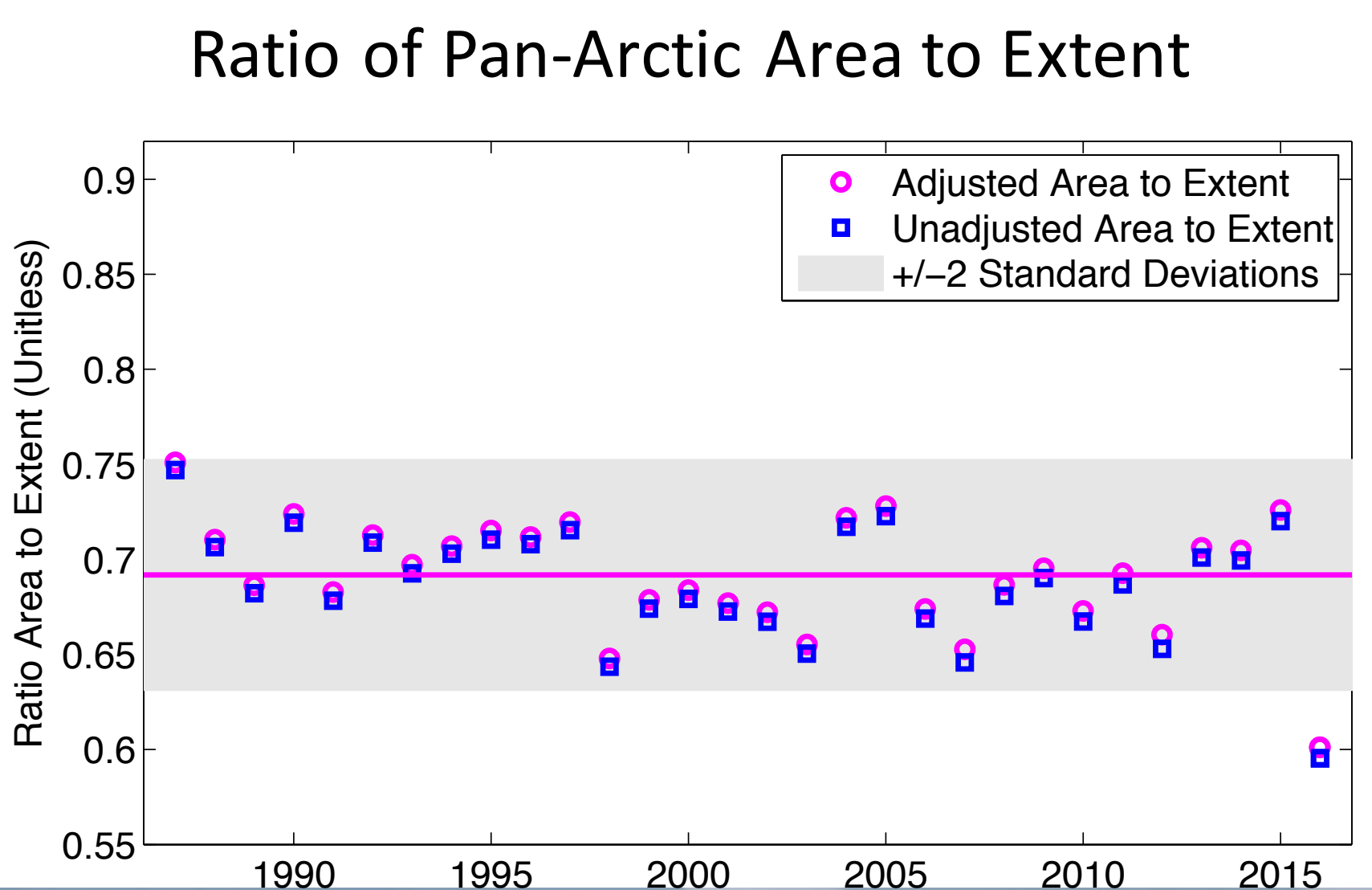

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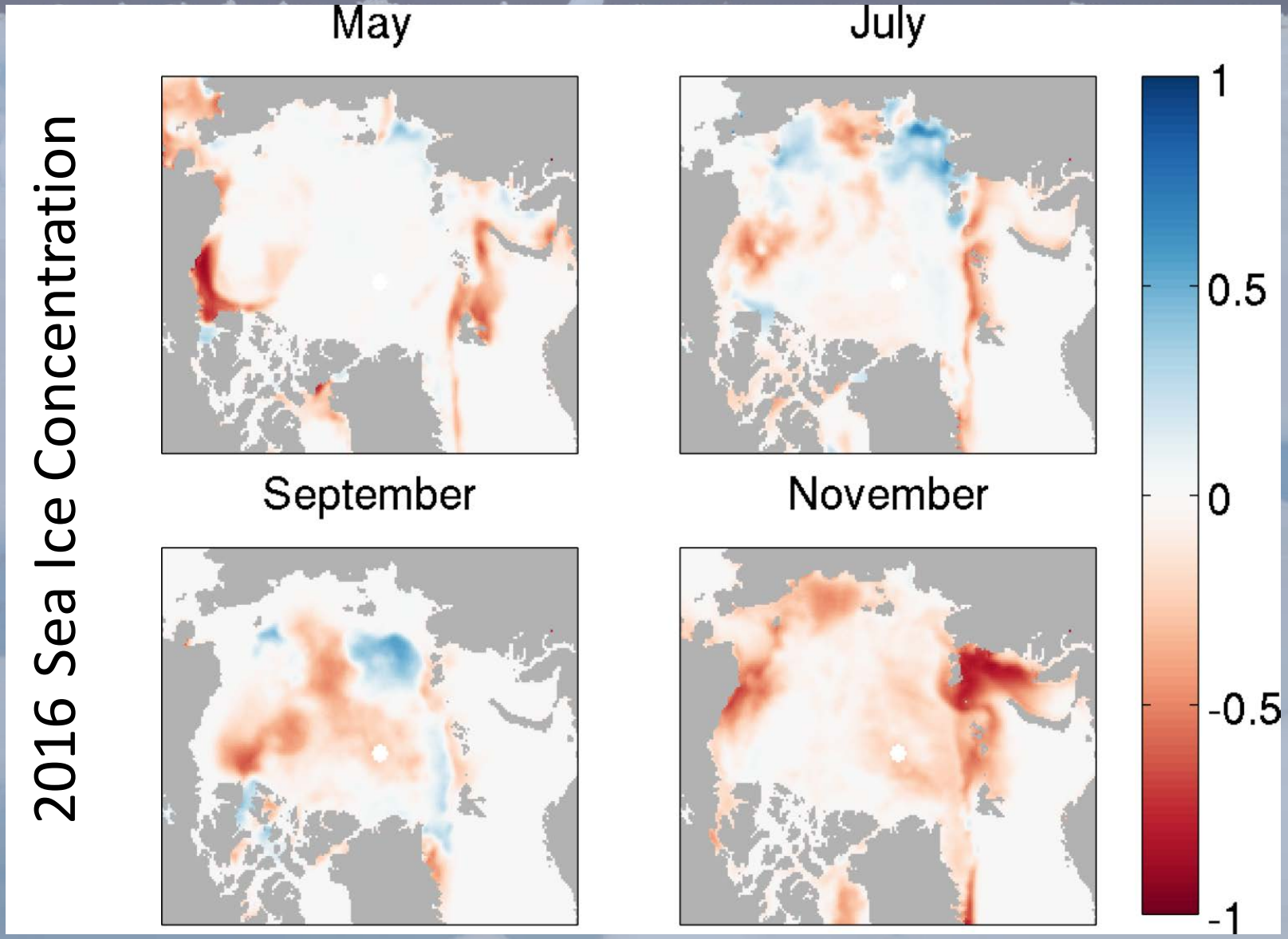

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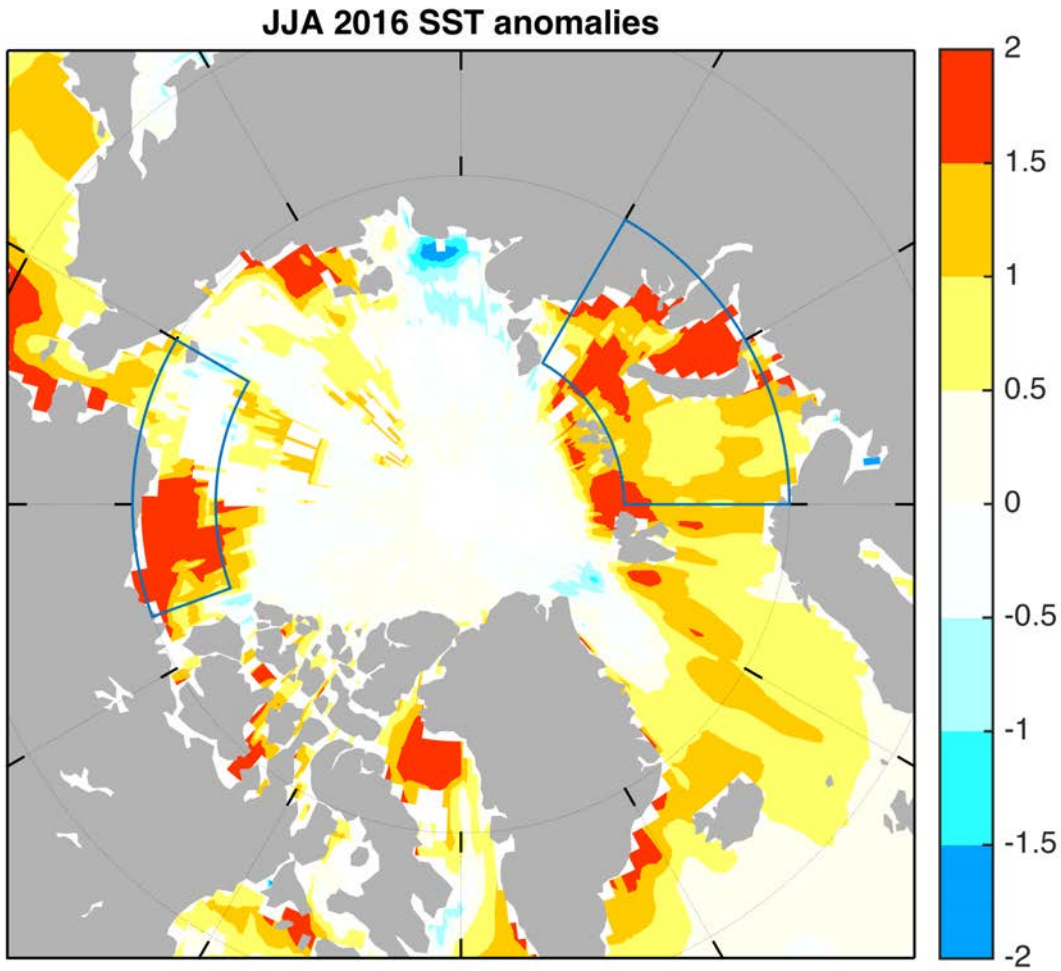

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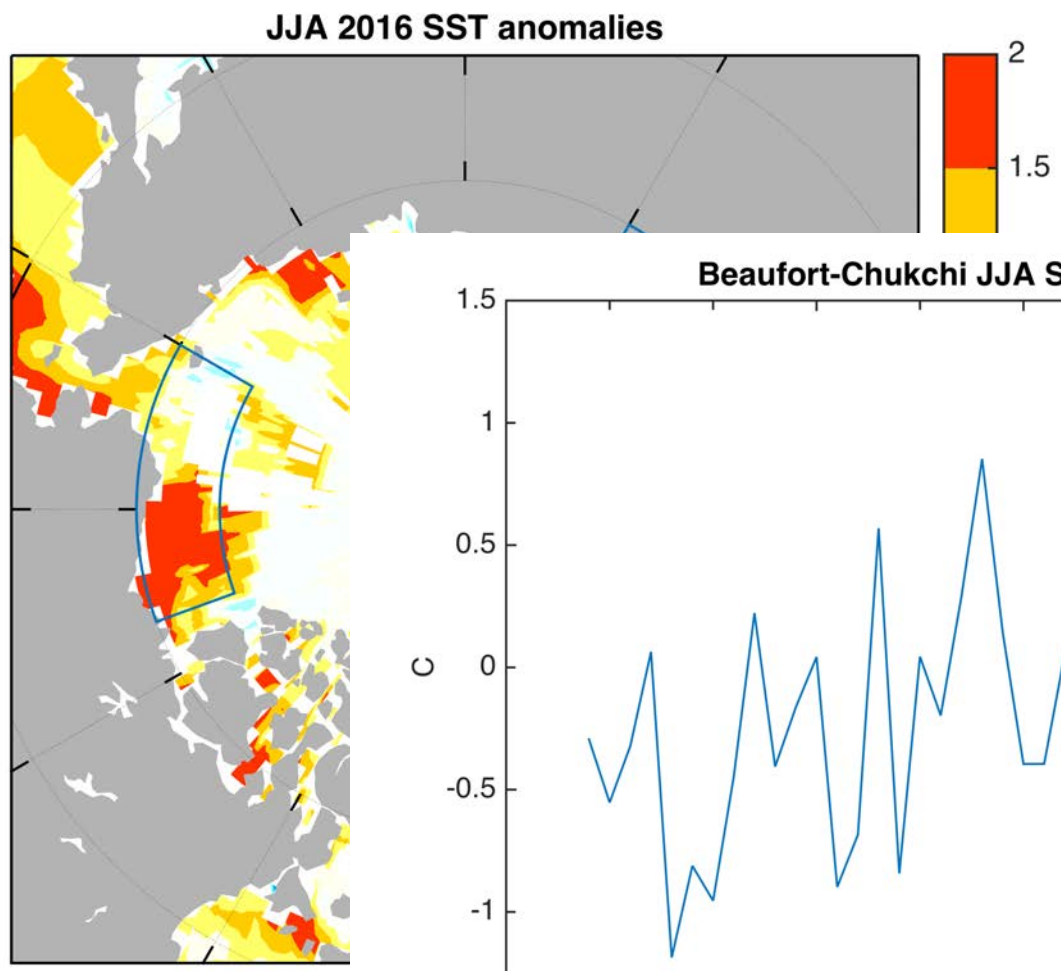

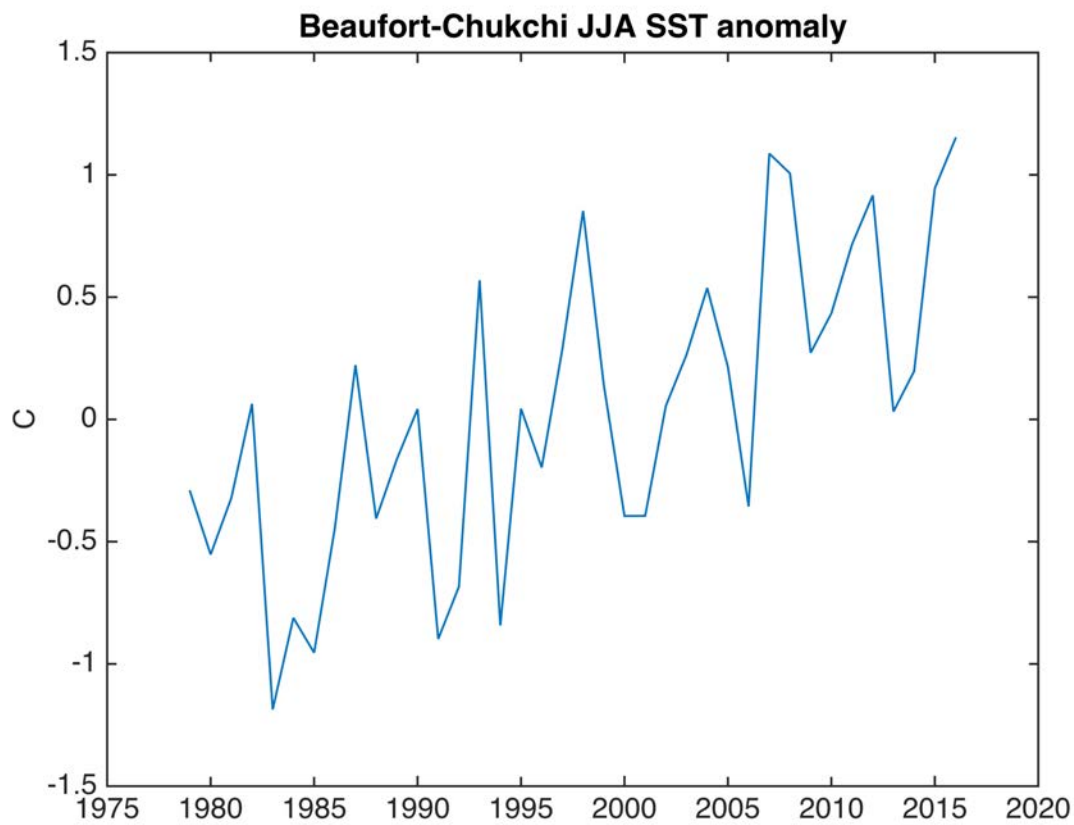

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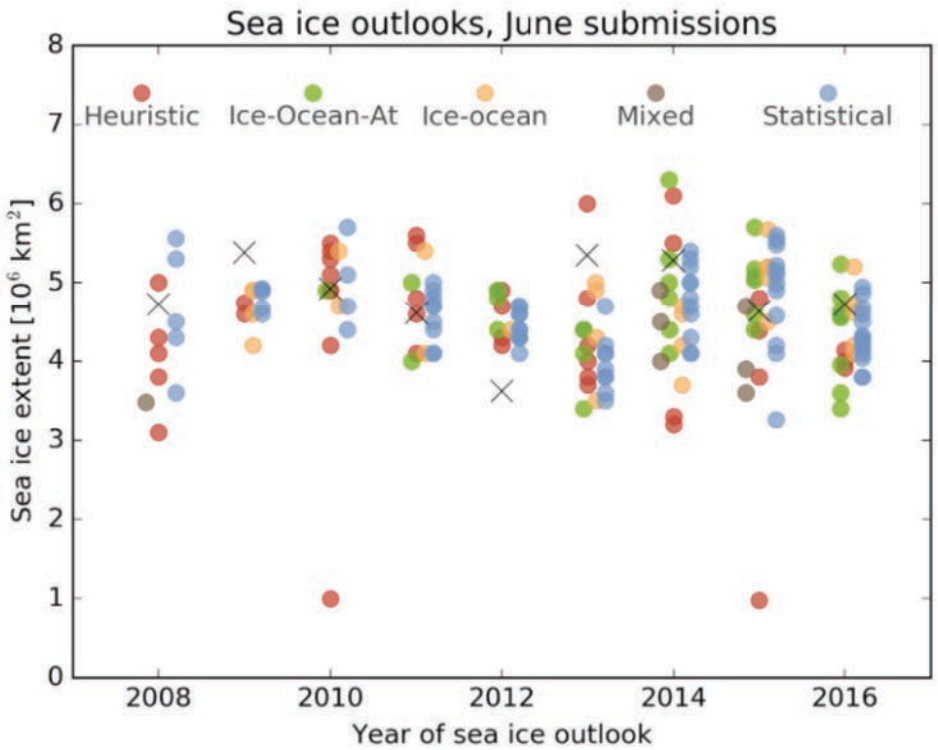

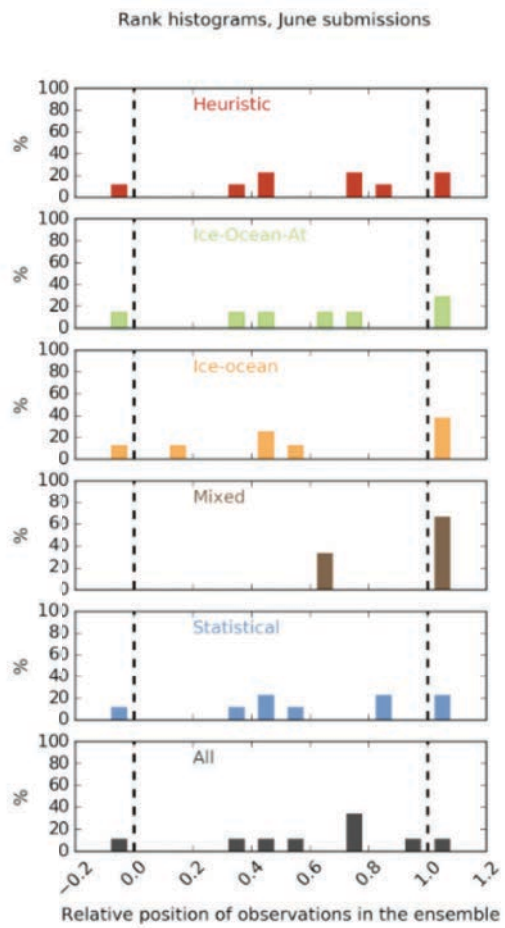

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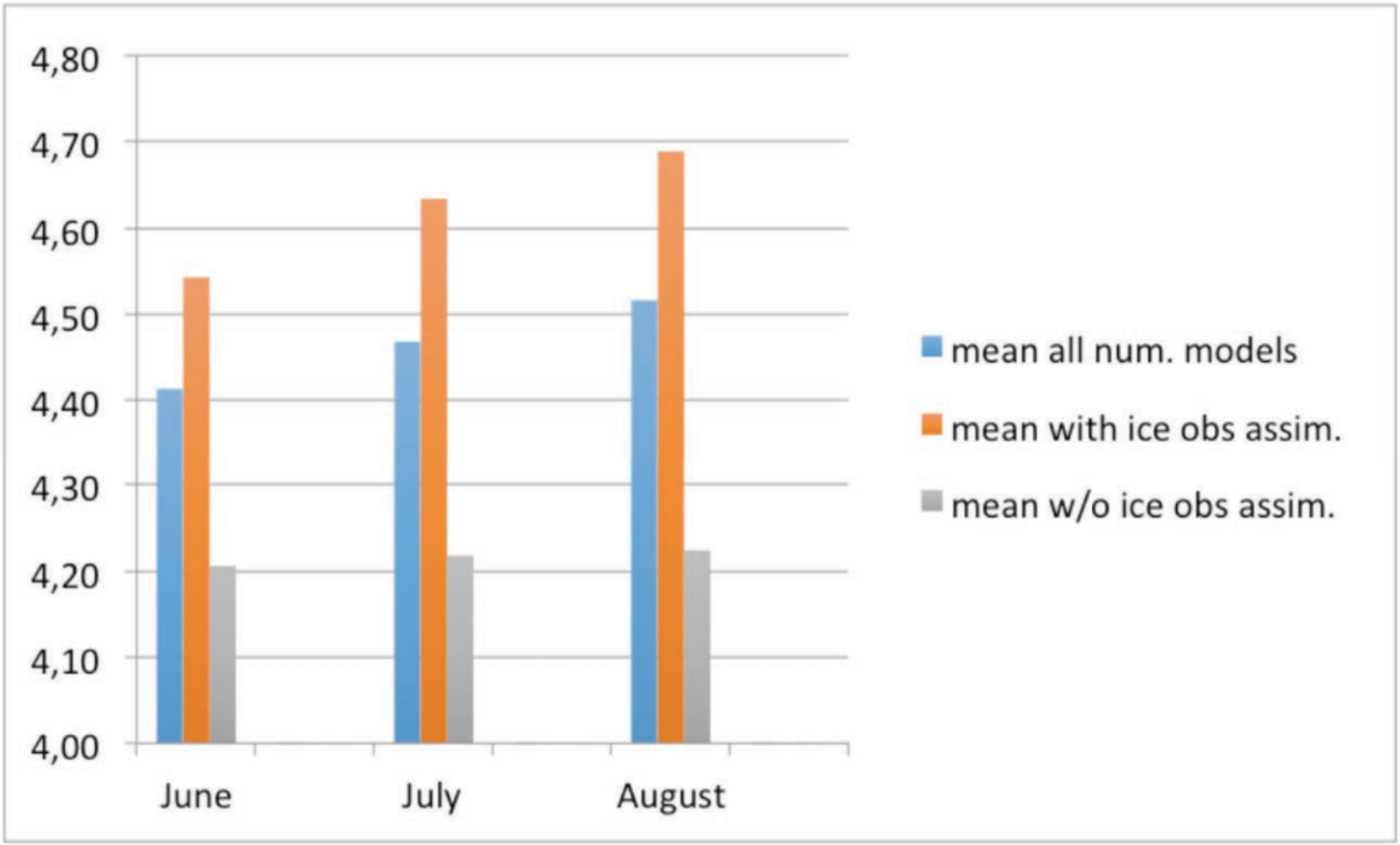
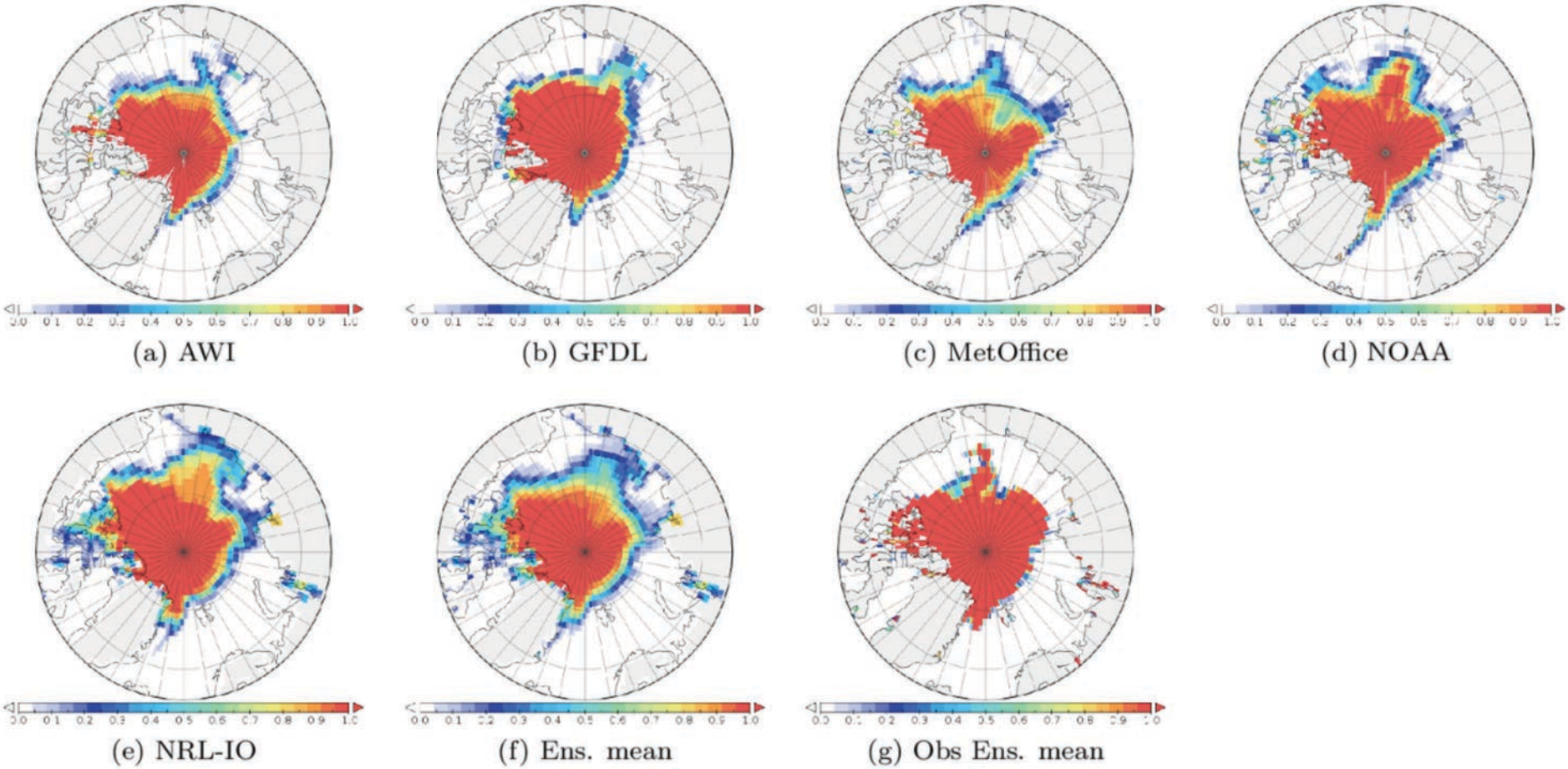


2016 Post Season Report

Sea Ice Probability of July 2016 SIO Submissions

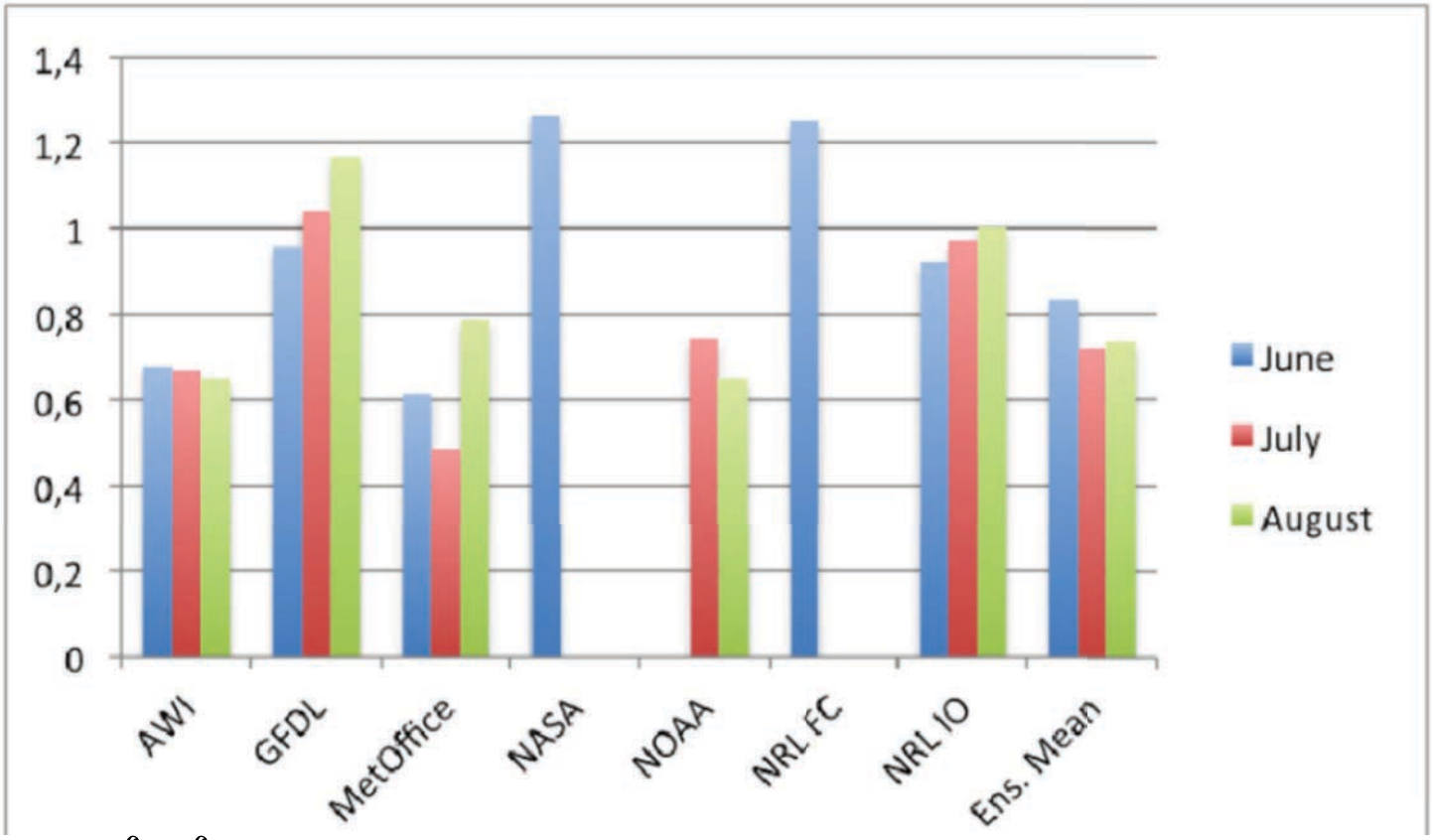


(a) AWI (b) GFDL (c) MetOffice (d) NOAA

(e) NRL-IO (f) Ens. mean (g) Obs Ens. mean

2016 Post Season Report

Spatial Probability Score (SPS) (low is better) of July 2016 SIO Submissions



$$\mathrm{SPS} := \int\int \left(P[\mathrm{SIC} > 0.15]_f(x,y) - P[\mathrm{SIC} > 0.15]_O(x,y)\right)^2 dxdy$$

SPS from Goessling in prep.

2016 Post Season Report

2016 Post Season Report

Recommendations:

- Fall Outlooks
- Spatial Information
- Area vs Extent
- Stakeholder/Societal Engagement

SIPN Going Forward – Uma Bhatt

Continuing Activities

- **Unique network** of U.S. and International members working together on research, prediction, production of operational products, and in communication of findings to interested stakeholders.

Activities expanded by building on SIPN

- Understanding of processes driving sea ice predictability (Hamilton and Stroeve, 2016) using ~500 SIO SIE
- *What are the limits of sea ice predictability?* accurate initial sea ice thickness, melt pond fraction, timing of melt onset and ice retreat, Bering Strait heat inflow, weather …
- Regional focus in major marine pathways (Alaska, N. Atlantic)

New Activities

- What is the economic value of 2-week to seasonal scale predictions?

SIPN Going Forward – Uma Bhatt

Overview

1. Lead and manage the network, including running the SIO
2. Expand our network's scientific reach by providing automated analysis and visualization of full (spatial) fields of year-round predictions (including retrospective predictions) at the subseasonal-to-annual range (known as the expanded SIO or "eSIO")
3. Coordinate across-network collaborative research activities
4. Participate in network research activities ourselves using network resources and collaboration

FAMOS Report – Richard Cullather

Wrap - Up

Other SIPN Activities:

Data shared with numerous researchers
Informational websites, email list
Review paper of 2016 SIO in prep.
Contributions to YOPP & FAMOS
Sea ice Data Assimilation discussion group
Preparions for SIPN next phase
Workshop in March 2017, Bremerhaven

Thank you!