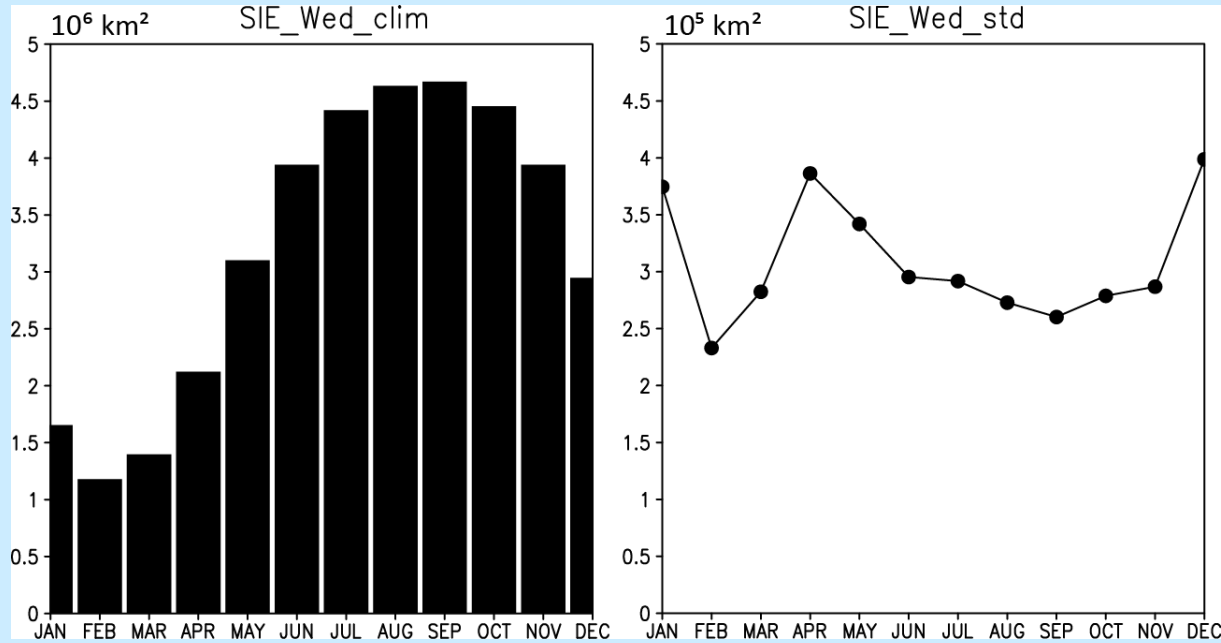


Some thoughts on YOPP and the seasonal prediction of Antarctic sea-ice extent

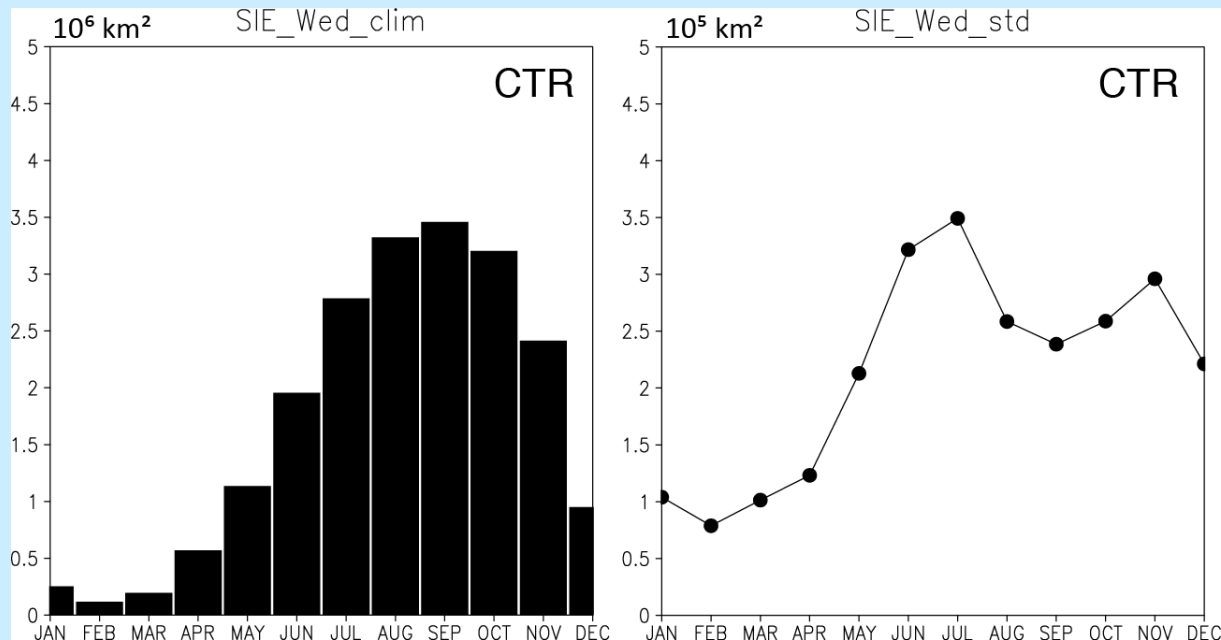
Francois Engelbrecht
CSIR

Simulating the seasonal cycle in Antarctic sea-ice



Monthly climatology of observed sea-ice extent in the Weddell Sea (left). Monthly standard deviation of the observed sea-ice extent in the Weddell Sea (right)

Morioka, Engelbrecht et al. (2017). *In review.*



SINTeX-F2 simulated monthly climatology of sea-ice extent in the Weddell Sea (left). SINTeX-F2 simulated standard deviation of the observed sea-ice extent in the Weddell Sea (right)

YOPP-SH Meeting
Boulder, 28-29 June 2017

SIPN South



Coordinating Seasonal
Predictions of Sea Ice in the
Southern Ocean for 2017-2019

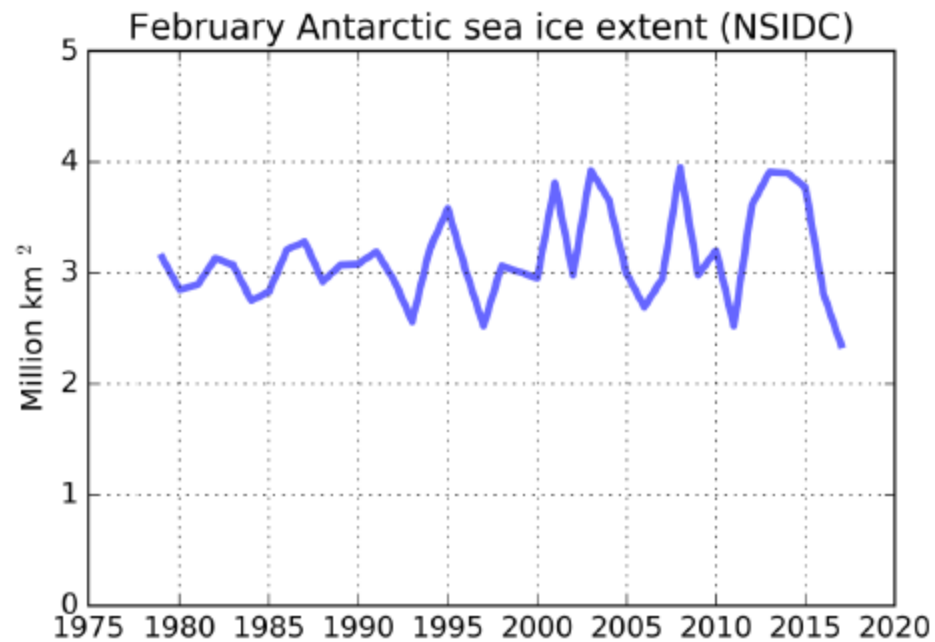
François Massonnet

UCL
Université
catholique
de Louvain

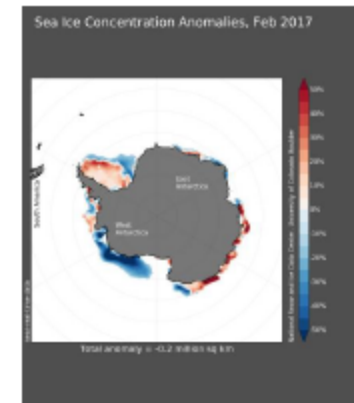


Phil Reid, Jan Lieser, Cecilia
Bitz, Will Hobbs, John Fyfe,
Kazuya Kushara



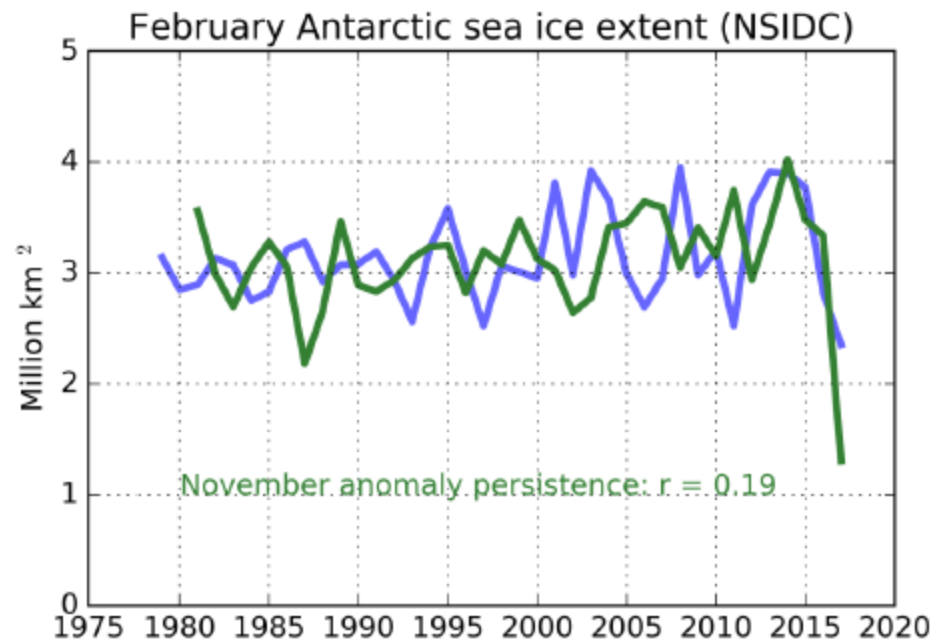


Feb. 2017 SIC anomalies

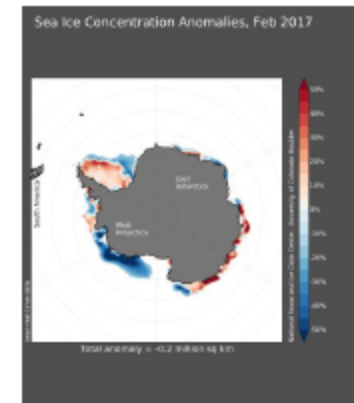


From Massonet et al. (2017). YOPP SH-meeting, Boulder 28-29 June 2017.

Elementary forecasts are not so useful



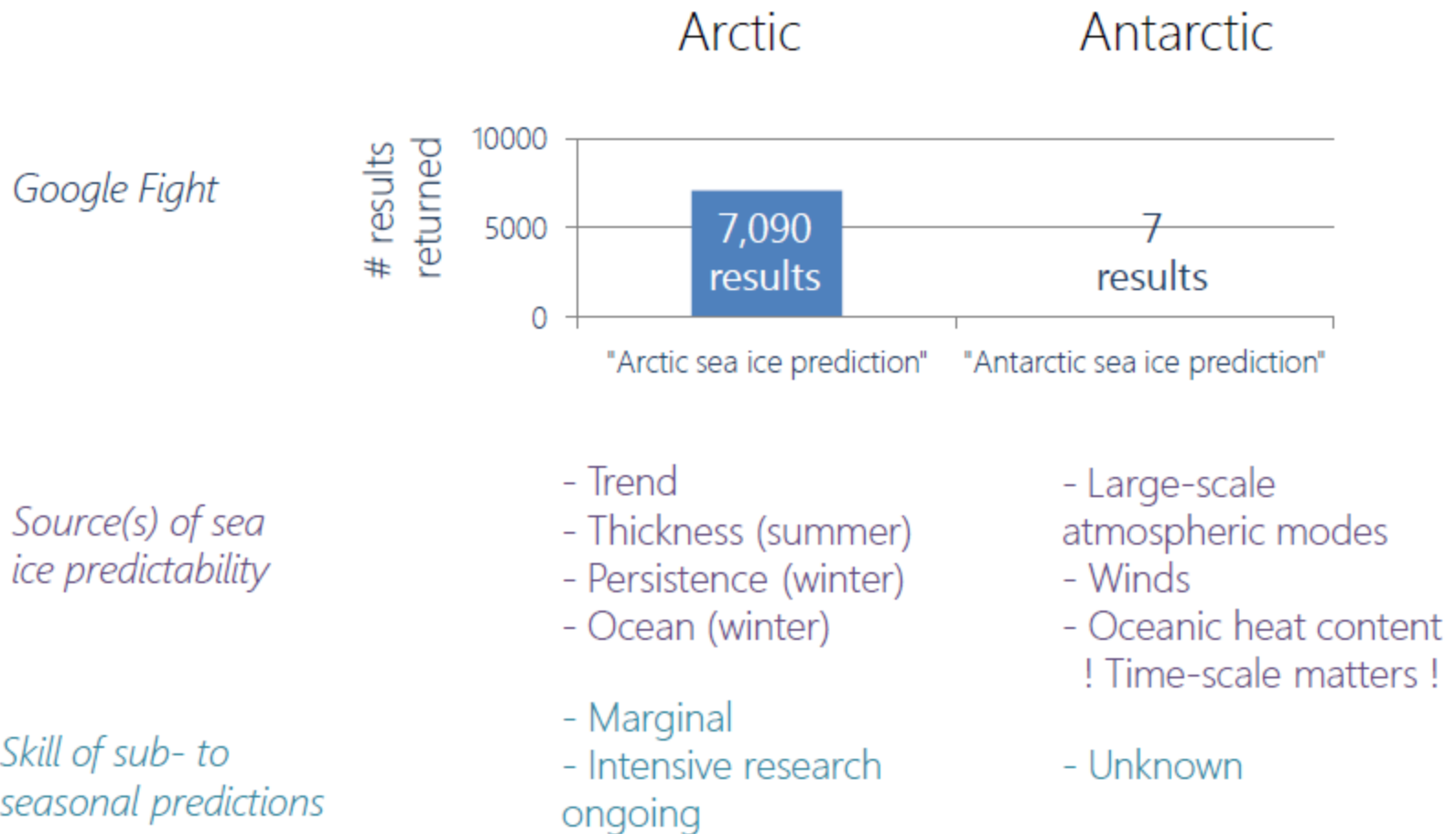
Feb. 2017 SIC anomalies



From Massonet et al. (2017). YOPP SH-meeting, Boulder 28-29 June 2017.

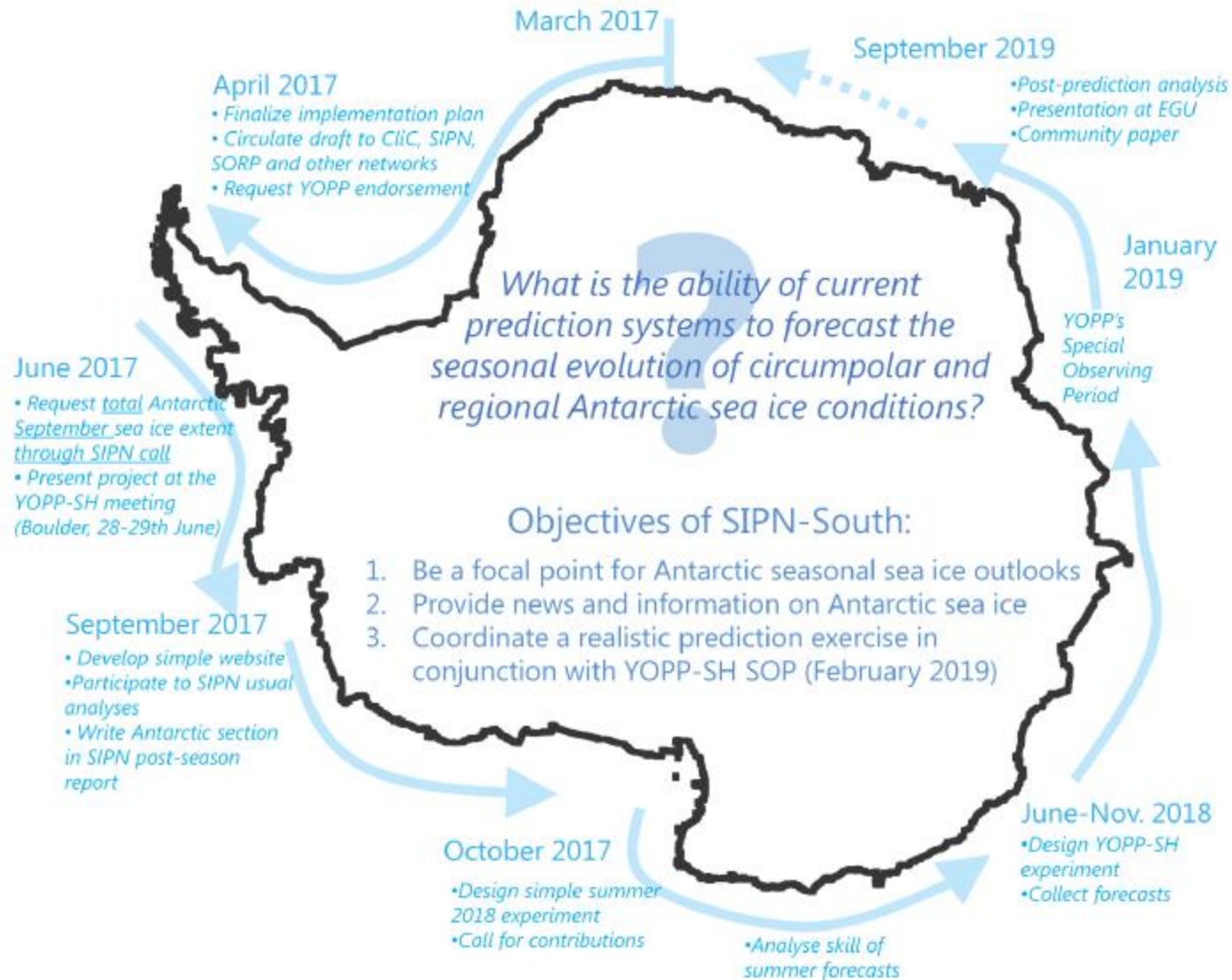
Antarctic sea ice prediction: an opening area of research

From Massonet et al.
(2017). YOPP SH-
meeting, Boulder 28-29
June 2017.



SIPN South: roadmap (2017-2019)

From Massonet et al. (2017). YOPP SH-meeting, Boulder 28-29 June 2017.



Forecasts of Antarctic sea-ice extent for September 2017 (issued at lead-times of 1, 2 and 3 months)

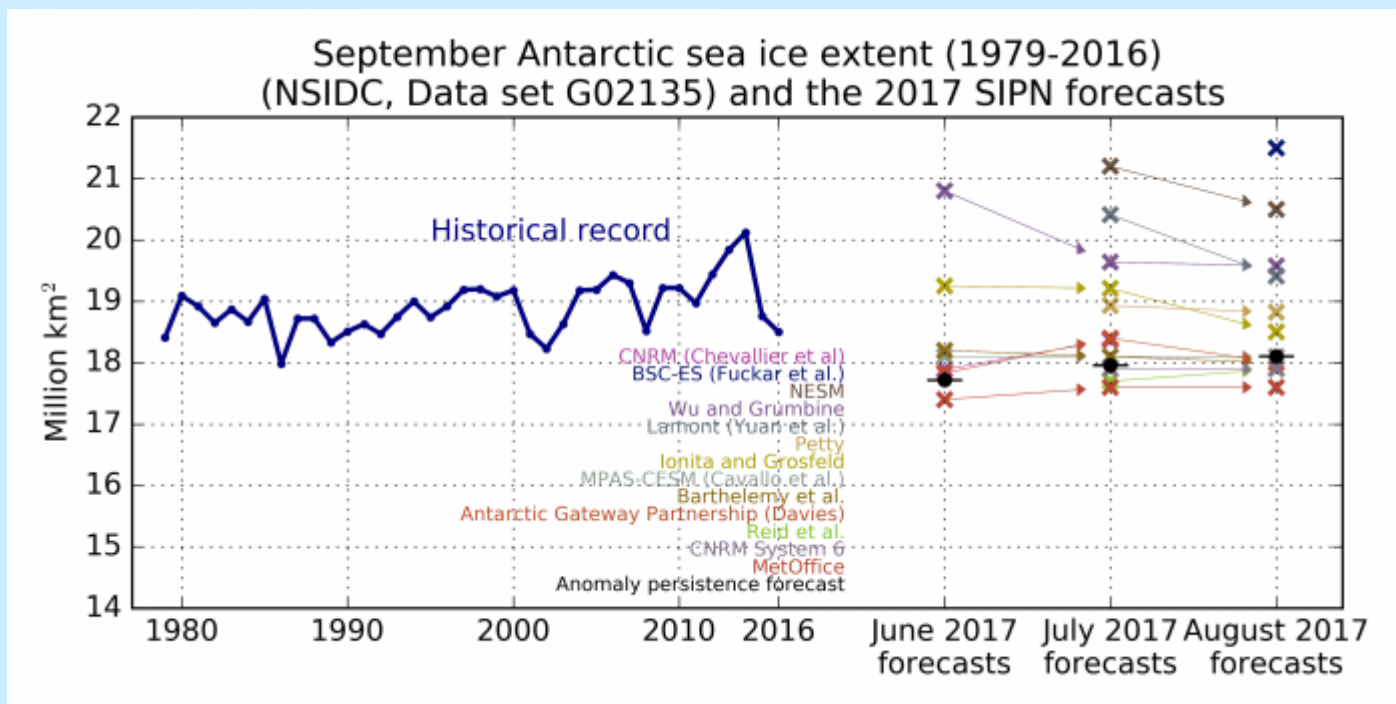


Figure from **SIPN August 2017 report**
(<https://www.arcus.org/sipn/sea-ice-outlook/2017/august>)

SIPN South will

From Massonet et al. (2017). YOPP SH-meeting, Boulder 28-29 June 2017.

- Make an initial assessment of SH sea ice forecasts and their utility
- Mostly address sub-seasonal to seasonal time scales
- Be a hub for Antarctic sea ice prediction

SIPN South will probably not

- Deliver reliable information for the YOPP-SH Special Observing Period