

All the details at:



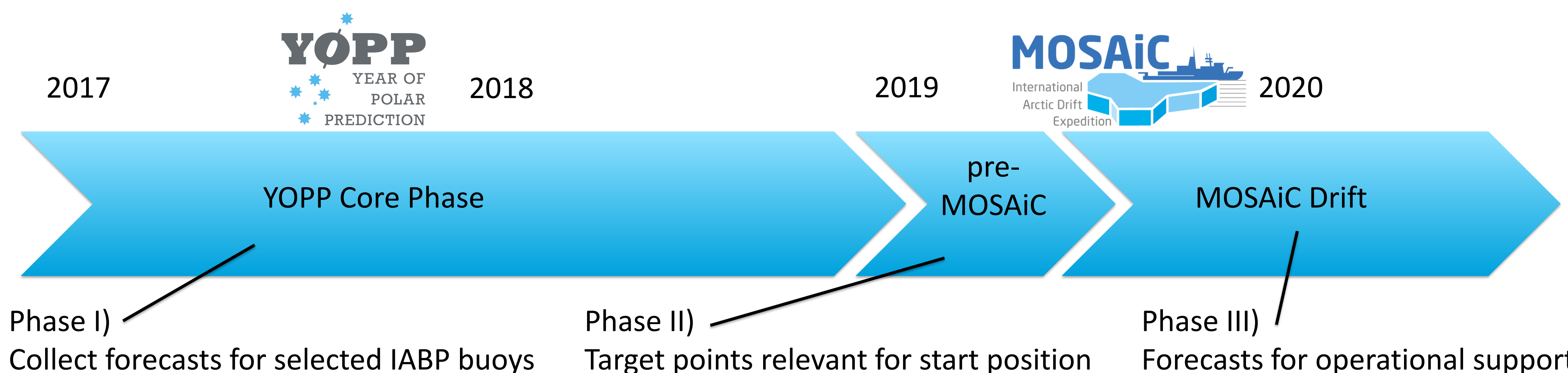
SIDFEx Team:

Helge F. Goessling, Axel Schweiger, Laurent Bertino, Ed Blockley, Wendy Ermold, Rüdiger Gerdes, Robert Grumbine, Yuki Hata, Jennifer Hutchings, Frank Kauker, Thomas Krumpfen, Jean-François Lemieux, François Massonnet, E. Joseph Metzger, Malte Müller, Bimochan Niraula, Michael W. Phelps, Thomas Rackow, Till A. S. Rasmussen, Simon F. Reifenberg, Ignatius Rigor, Greg Smith, Amy Solomon, Nick Szapiro, Steffen Tietsche, Jinlun Zhang

**SIDFEx is a community effort to collect and analyse Arctic sea-ice drift forecasts at lead times from days to a year. Forecasts are made with various methods for drifting sea-ice buoys and the trans-Arctic MOSAIC drift campaign.**

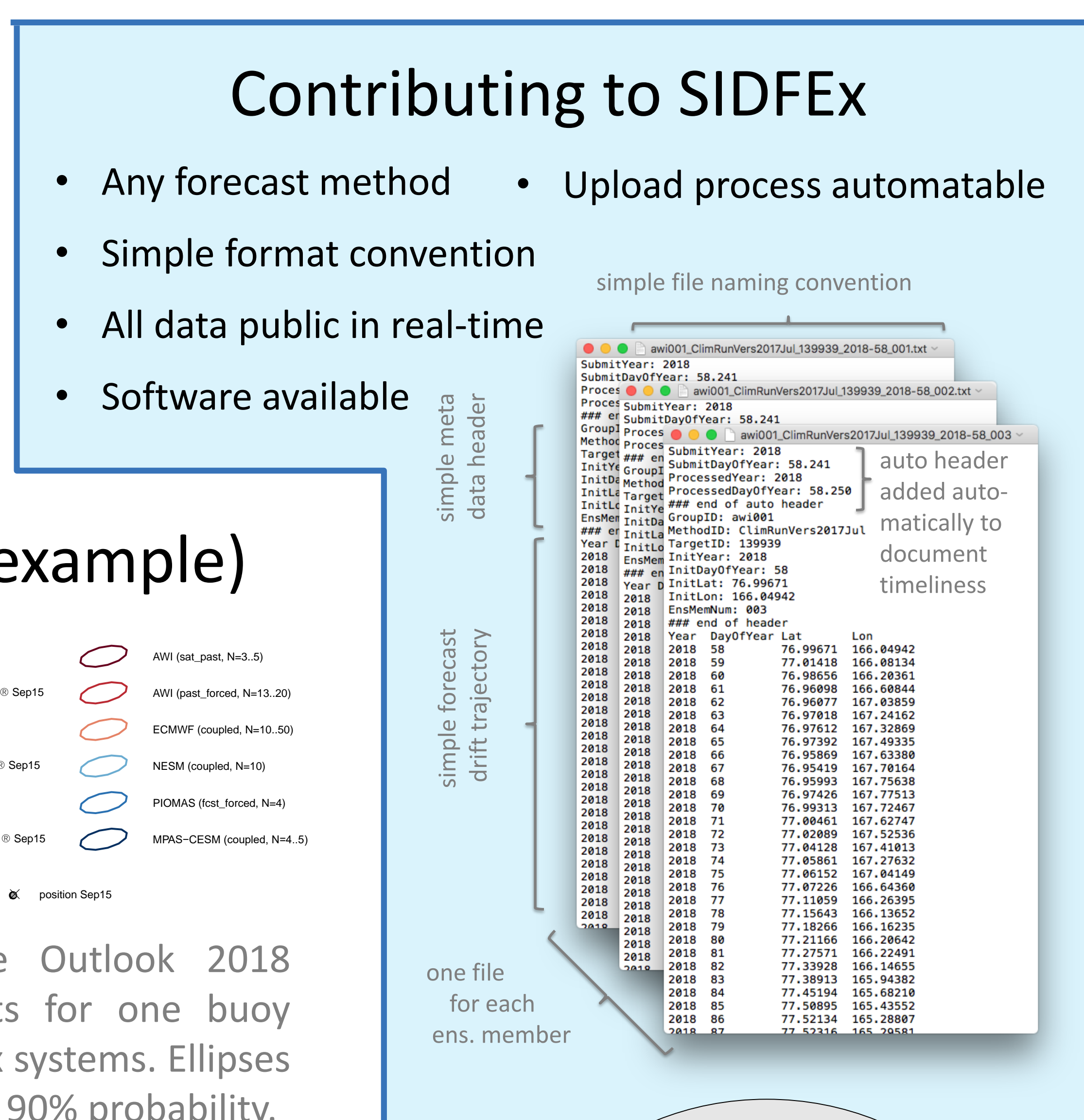
## Why SIDFEx?

- to compare ice drift forecast skill across various systems
- to find hints toward forecast system improvements
- to support the MOSAIC campaign
- to develop “consensus drift forecast” techniques for future applications

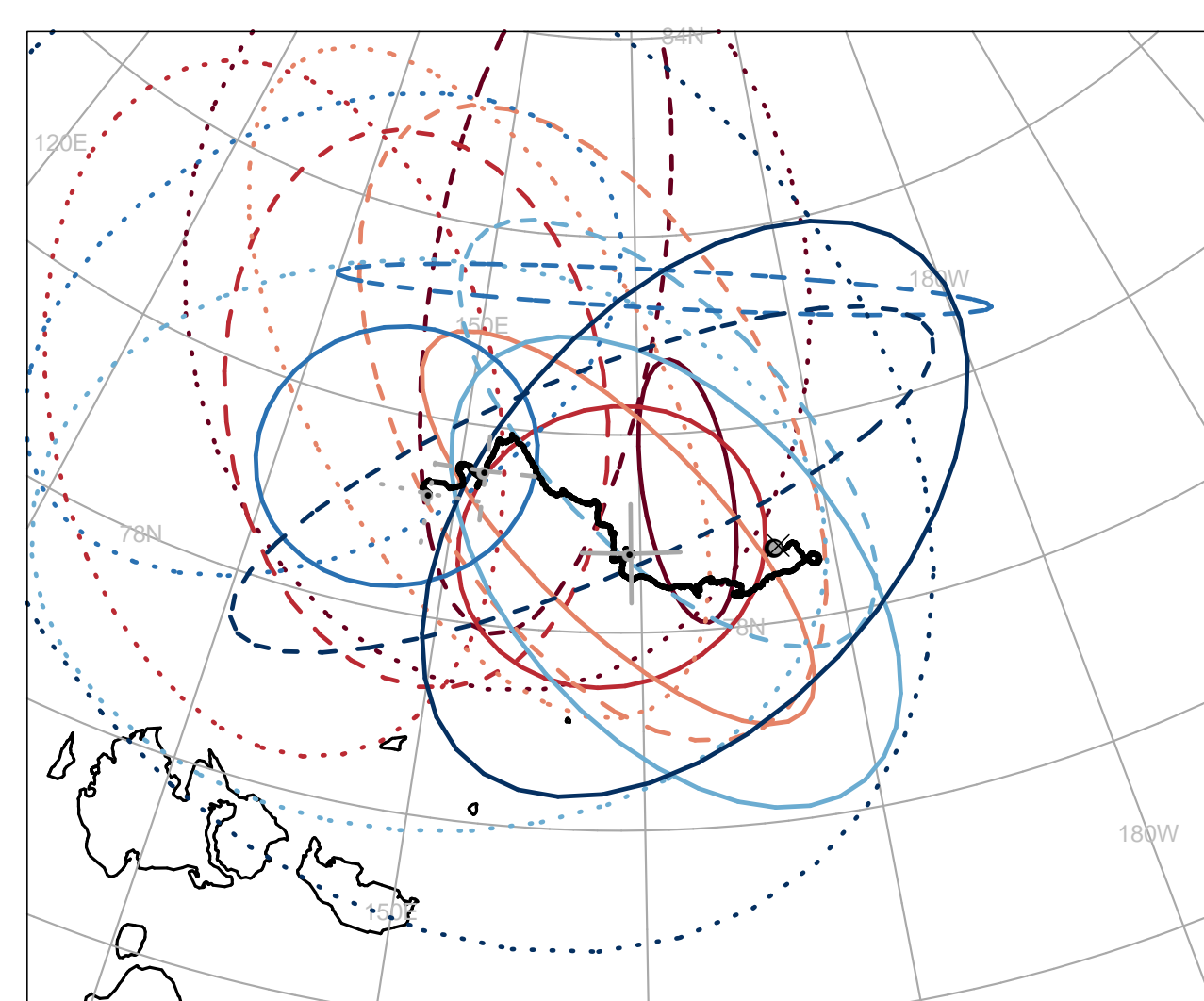


## Contributing to SIDFEx

- Any forecast method
- Simple format convention
- All data public in real-time
- Software available
- Upload process automatable

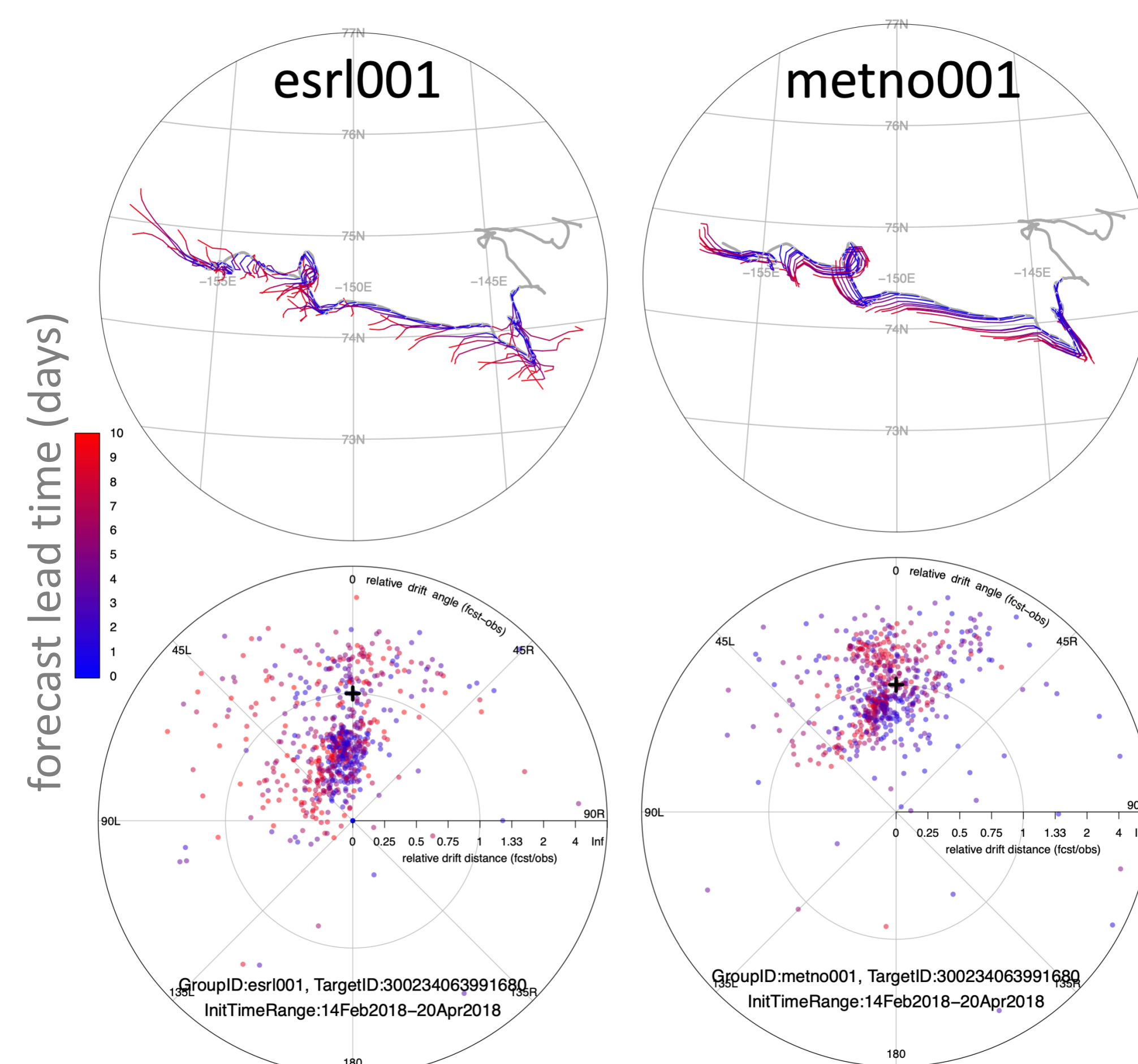


## Seasonal forecasts (example)



Sea Ice Outlook 2018 forecasts for one buoy from six systems. Ellipses enclose 90% probability.

## Short-term forecasts (example)



10-day forecasts for one buoy from two systems, daily initial times between 14 February and 20 April 2018.  
*Top:* Observed (grey) and forecast (coloured) trajectories.  
*Bottom:* Drift speed and angle relative to observations.

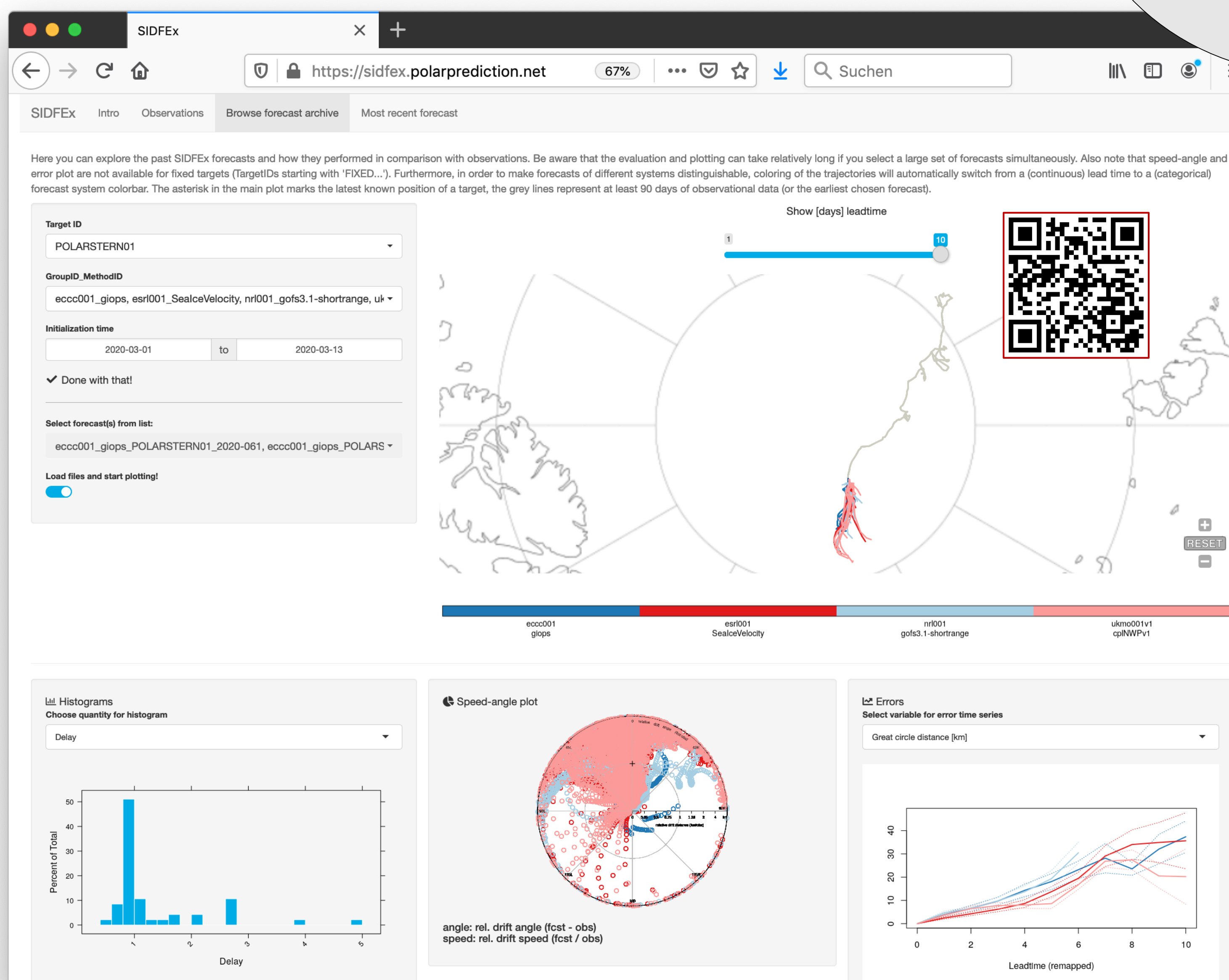
## Statistics

(14 April 2020)

- 14 international groups
- 24 forecast methods
- 101,868 forecasts for *RV Polarstern* & 37 buoys

## SIDFEx Webtool

to explore past and current forecasts



## MOSAIC Consensus Drift Forecasts

Updated every 6 hours

Latest forecast:



Previous forecasts with verifying observations:



SIDFEx consensus forecast for the MOSAIC drift  
Initial time (YYYYMMDDHH): 2020031606

Consensus forecast version: 20200221v0  
Generated at: 2020-76.295  
Forecasts included (age relative to initial time / remaining lead time range, both in days):  
ukmo001v1\_giNWPv1 (1.25 / 8.75) esrl001\_SeaIceVelocity (1.25 / 8.75)  
ukmo001v1\_FOAMv1 (1.25 / 8.75) ecco001\_SEAS (15.25 / 108.75)  
ukmo001v1\_giNWP-HRv1 (1.25 / 8.75)  
nrl001\_gofs3.1-shortrange (1.75 / 4.75)  
ecco001\_giops (1.25 / 8.75)