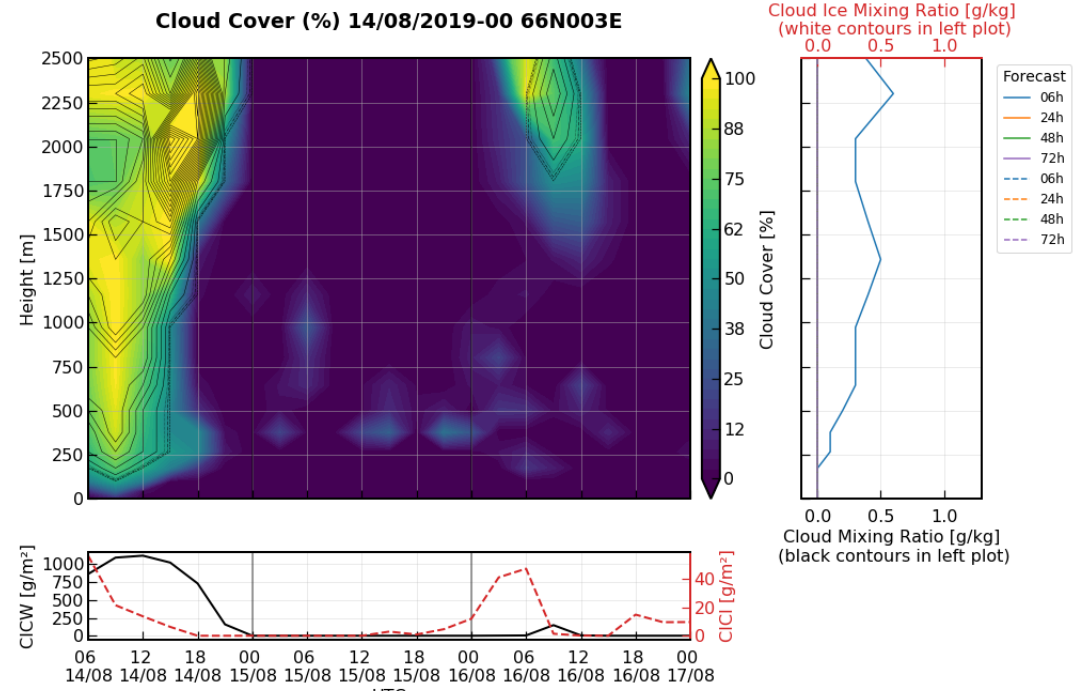
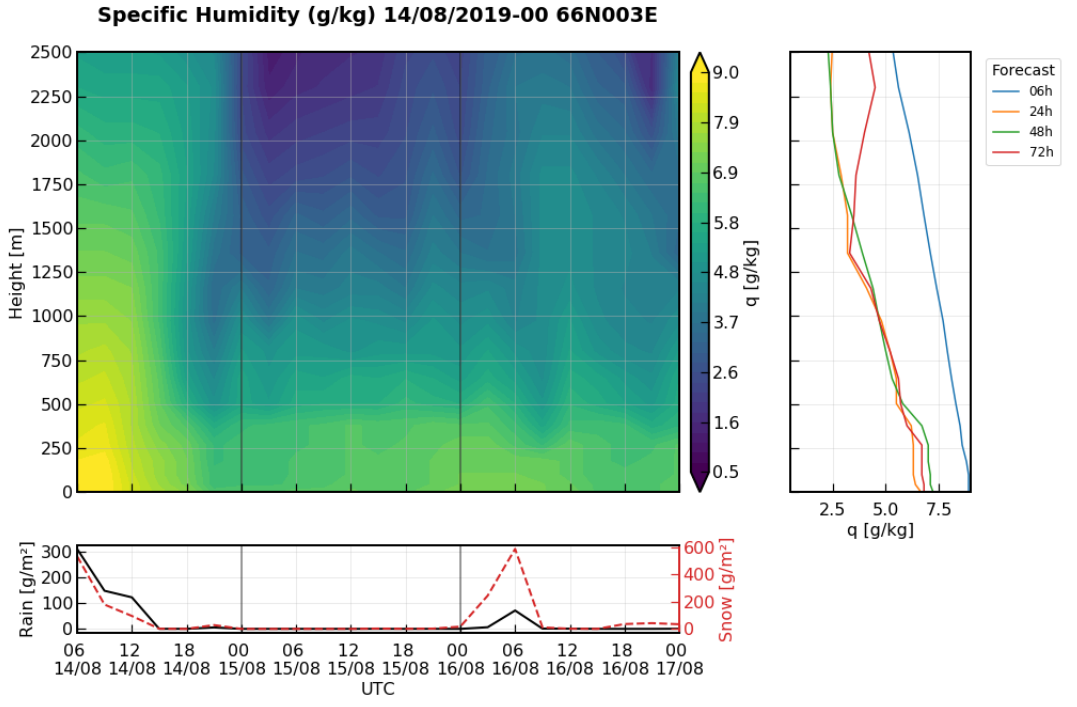
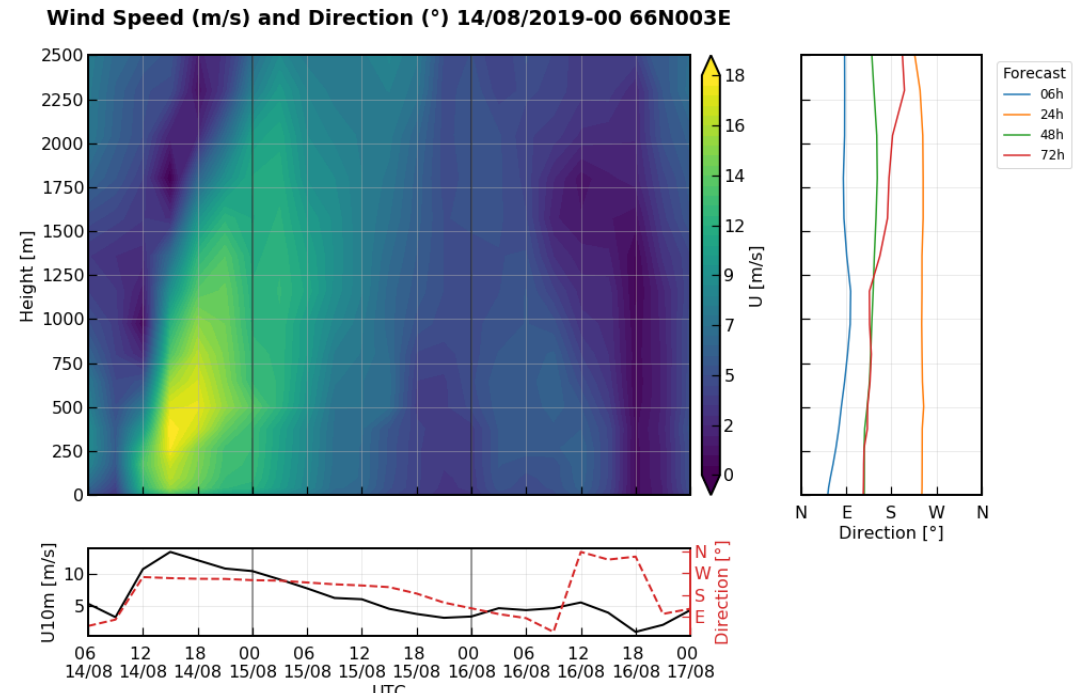
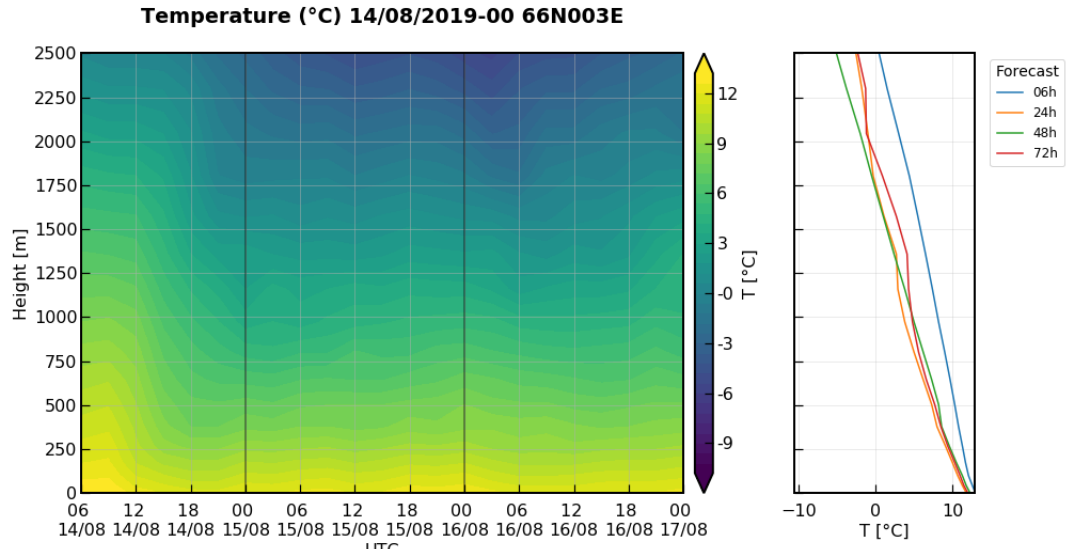


DWD **weather information onboard Polarstern** and mapviewer

Plots from ICON forecast as **vertical cross sections** (height vs forecast time) of pressure, temperature, humidity, wind, clouds, precipitation The range of the lowest 2 km is blown up.

Contact for plots: Thea Schneider, thschneid@awi.de
DWD contact: Thomas Bruns, Thomas.Bruns@dwd.de

Example of ICON column forecast, Polarstern



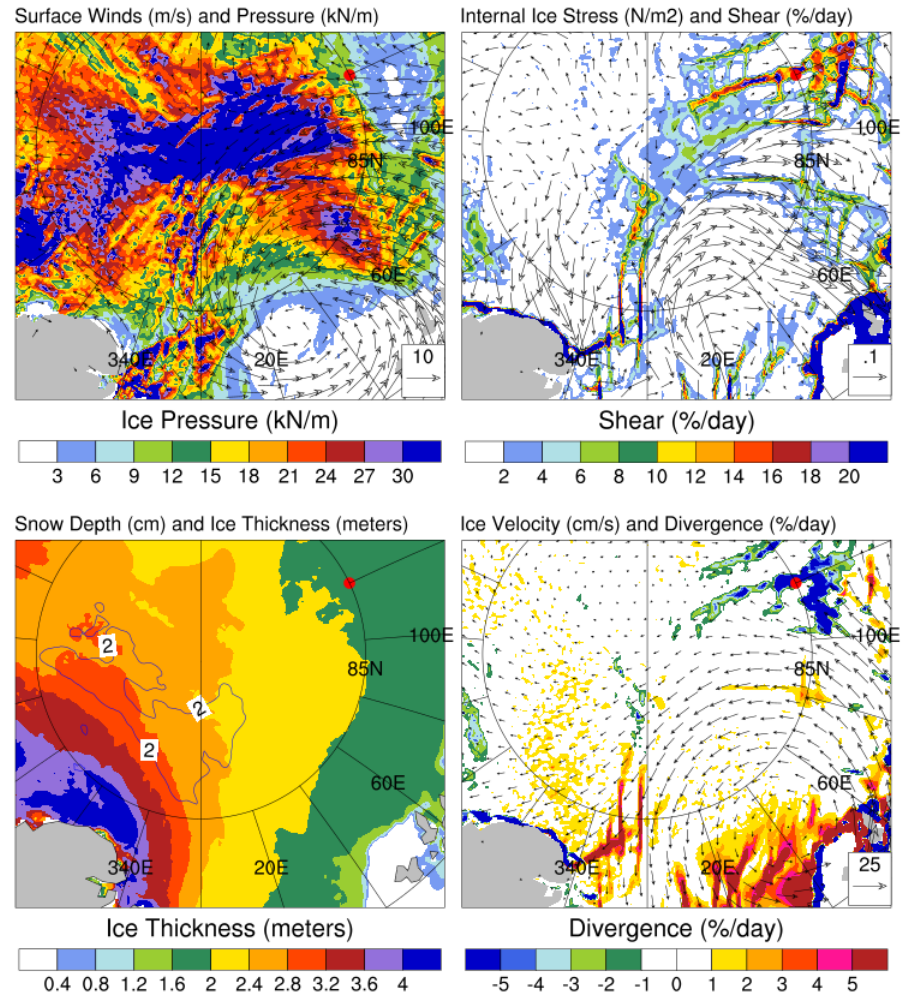
Daily **sea-ice forecast** fields from two **coupled models** will be available:
from ECCC; Jean-Francois Lemieux, jean-francois.lemieux@canada.ca
from NOAA-ESRL; Amy Solomon, amy.solomon@noaa.gov

Attached are examples of the plots that will be made available everyday (both ESRL and ECCC figures). Both centers are making two types of figures; one for the full MOSAIC domain and one zoomed-in on the location of the Polarstern. ECCC is providing forecasts up to 2 days and ESRL is making forecasts up to 10 days. If you are interested in more information about the models, please contact the responsible person.

Both centers also contribute near-real-time drift forecasts to SIDFEx (contact: Helge Gössling; helge.goessling@awi.de). The new 4-panel graphical products include additional parameters and are complementary to SIDFEx forecasts.

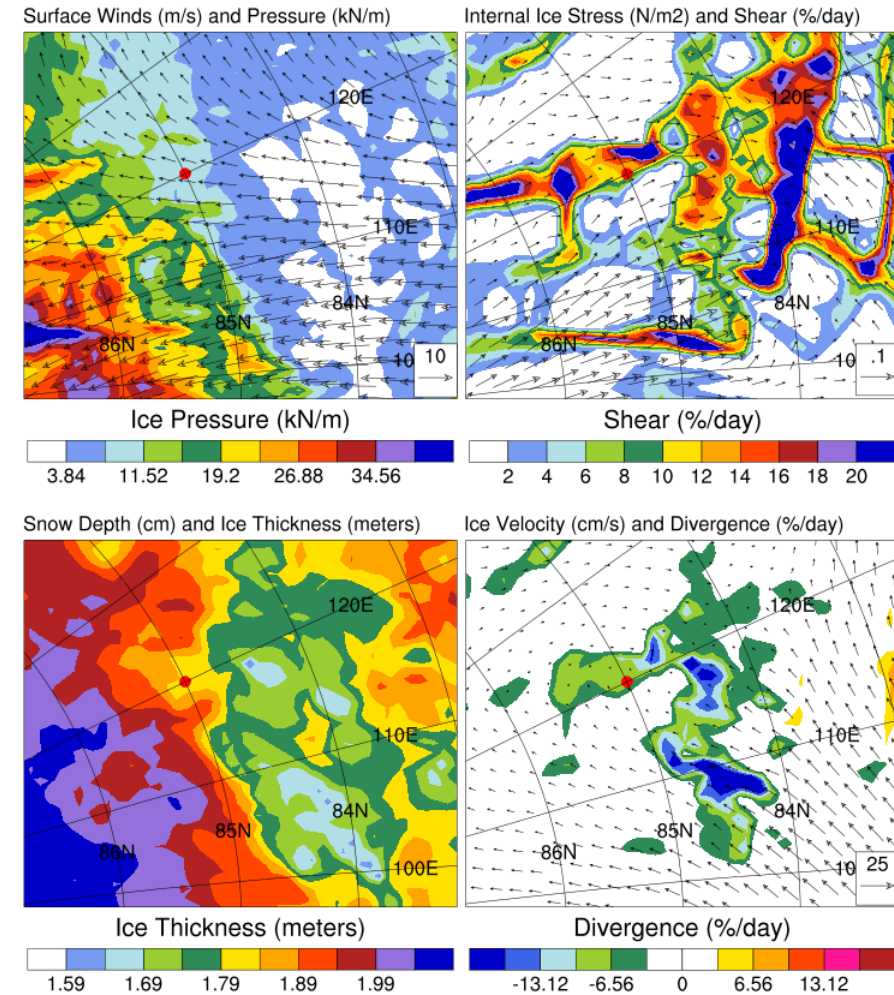
Example of ESRL-RASM 1 day forecast

Init 18 July 2019 0Z; Valid 19 July 2019 0Z



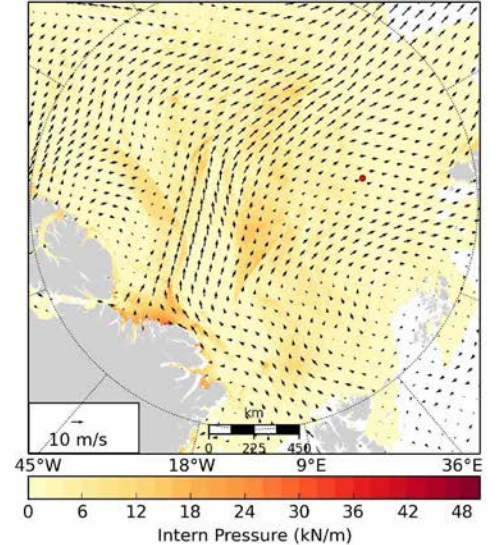
ZOOM

Init 18 July 2019 0Z; Valid 19 July 2019 0Z

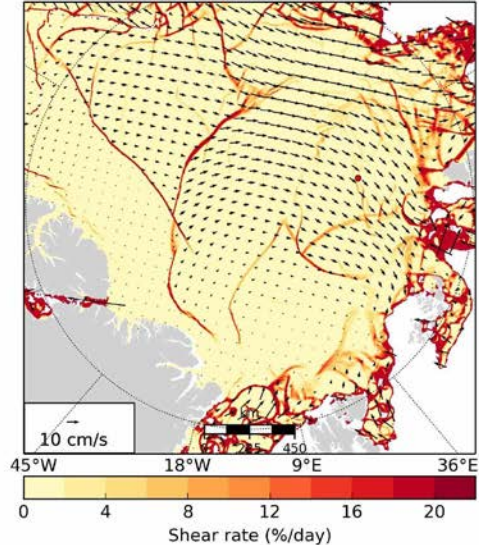


Example of ECCC 1 day forecast

Intern pressure (kN/m) and surface wind (m/s)

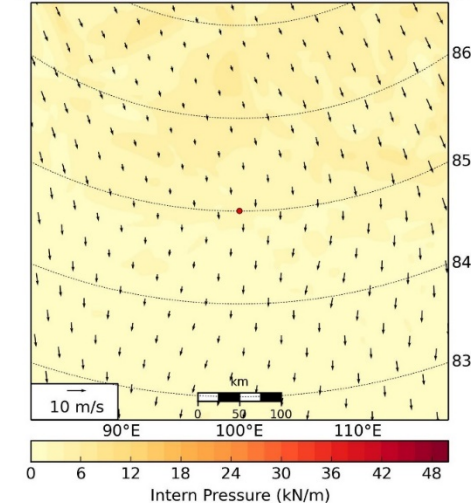


Shear rate (%/day) and ice velocity (cm/s)

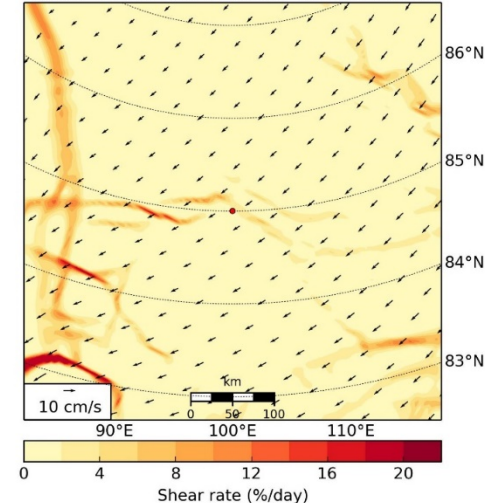


zoom

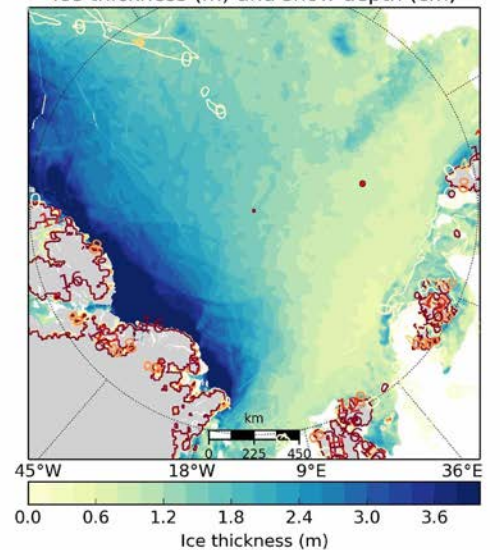
Intern pressure (kN/m) and surface wind (m/s)



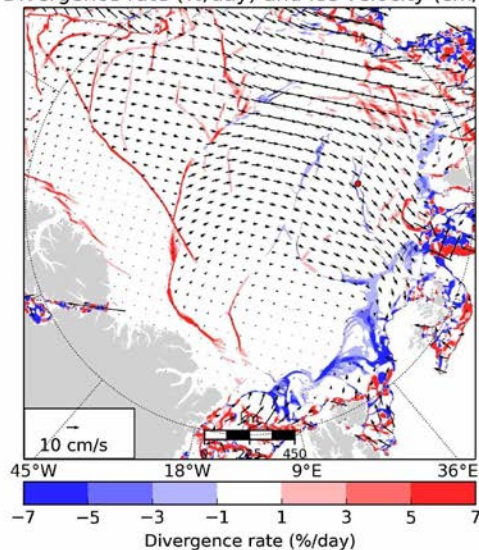
Shear rate (%/day) and ice velocity (cm/s)



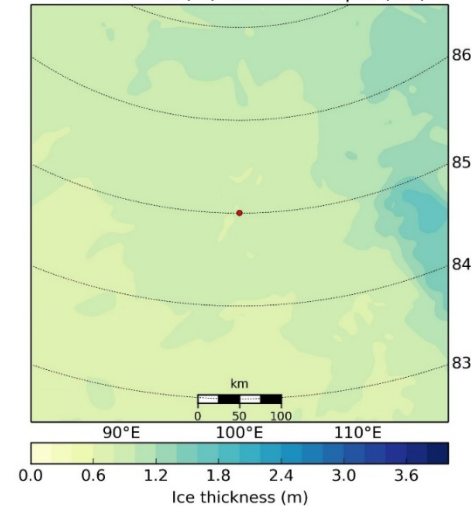
Ice thickness (m) and snow depth (cm)



Divergence rate (%/day) and ice velocity (cm/s)



Ice thickness (m) and snow depth (cm)



Divergence rate (%/day) and ice velocity (cm/s)

