

Navy ESPC | Ice Extent | July ICs



Figure 1: September 2020 mean 80% (blue) and 15% (red) sea ice concentration contours for Fram Strait from the Navy Earth System Prediction Capability 16 member ensemble using 1 July 2020 initial conditions

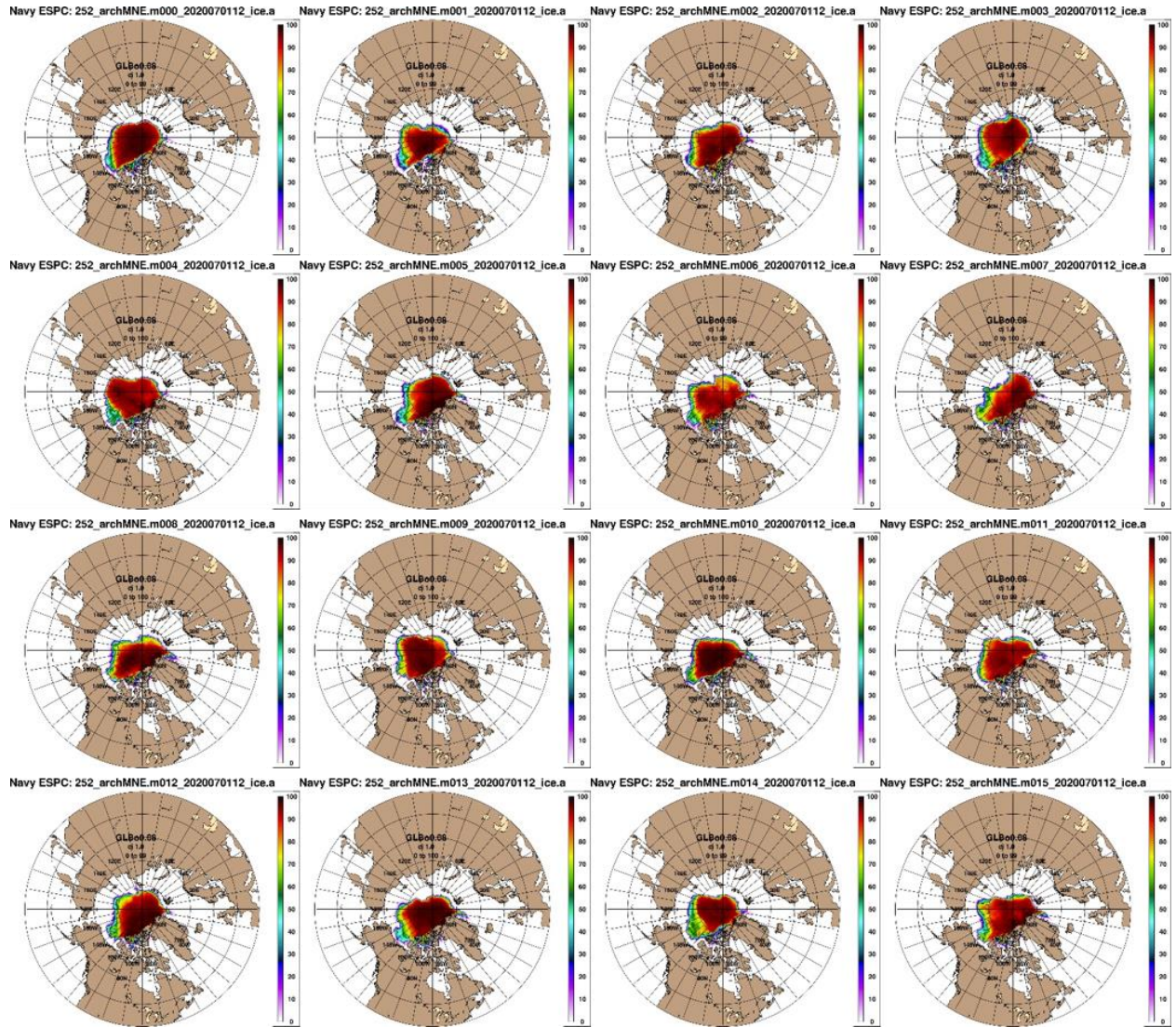


Figure 2: September 2020 mean ice extent from the Navy Earth System Prediction Capability individual 16 members using 1 July 2020 initial conditions for the Arctic.

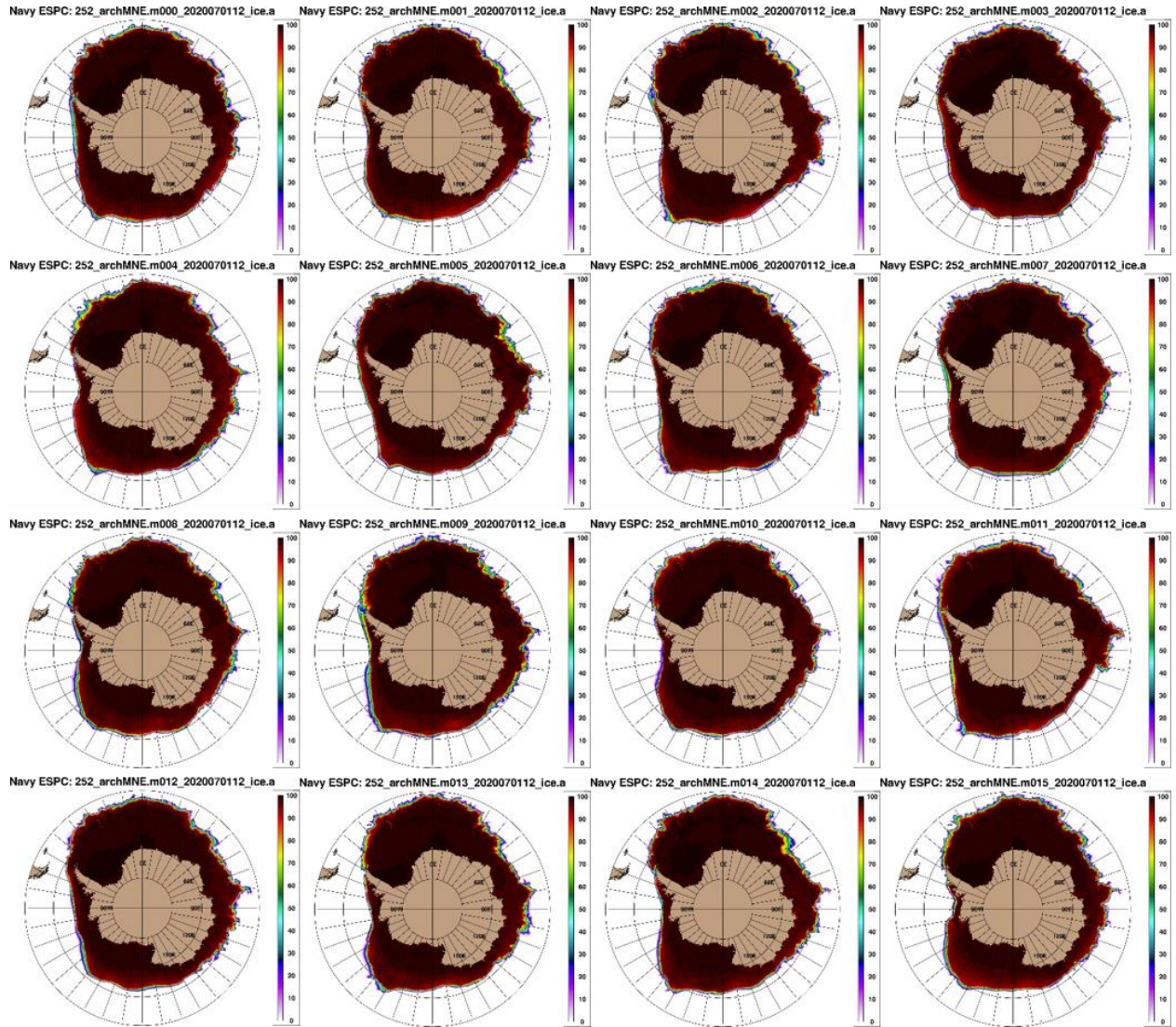
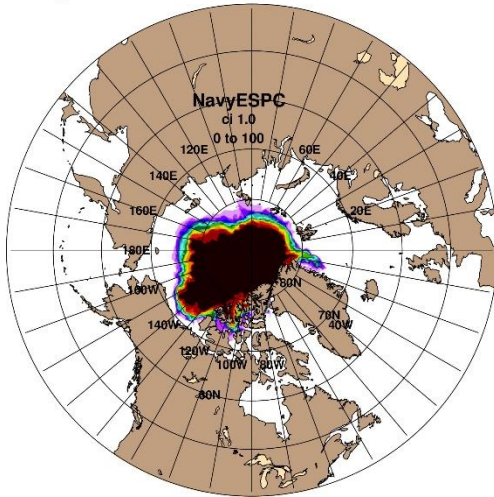


Figure 3: September 2020 mean ice extent from the Navy Earth System Prediction Capability individual 16 members using 1 July 2020 initial conditions for the Antarctic.

NavyESPC SIP from 1 Jul 2020 IC forecasts



NavyESPC SIP from 1 Jul 2020 IC forecasts

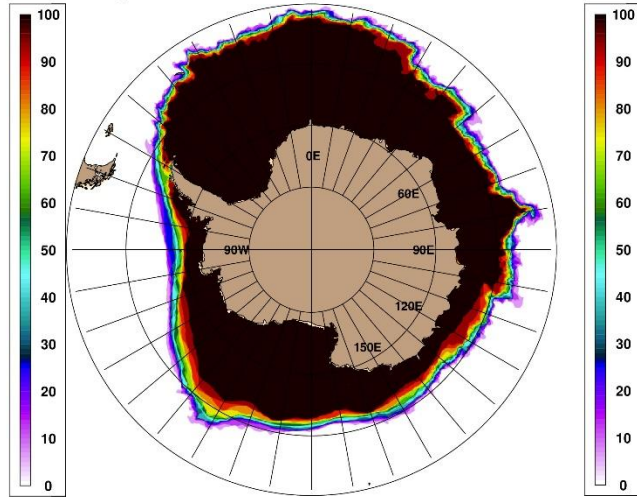
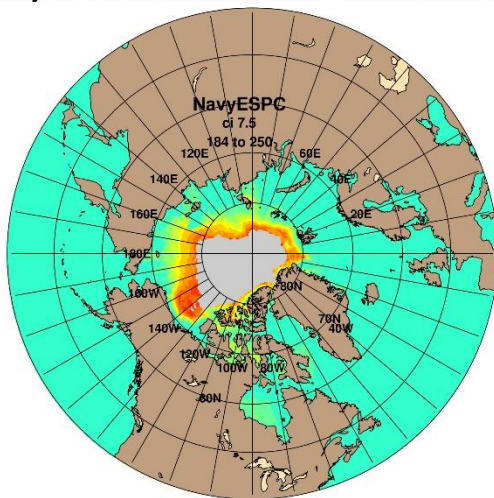


Figure 4: Sea Ice Probability (%) of the projected September 2020 mean ice extent from the Navy Earth System Prediction Capability 16 member ensemble using 1 July 2020 initial conditions.

NavyESPC 2020 Jul SIO: Mean First Ice Free Day



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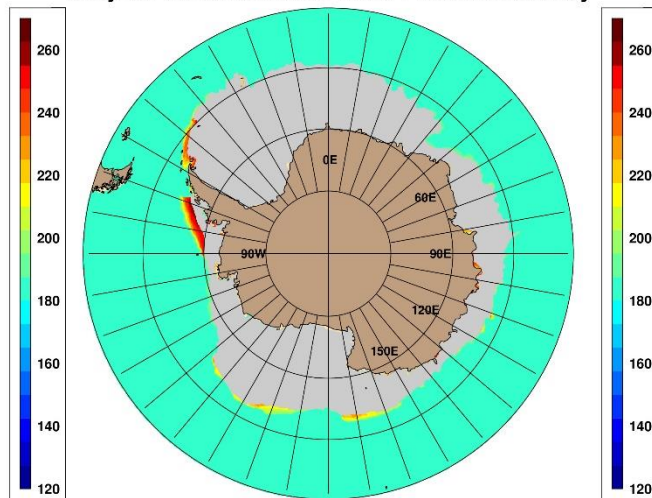


Figure 5: First ice-free ordinal date, with gray indicating a data void (i.e., no ice free days as the most likely outcome) from the Navy Earth System Prediction Capability 16 member ensemble using 1 July 2020 initial conditions.

NavyESPC 2020 Jul SIO: Std Dev First Ice Free Day

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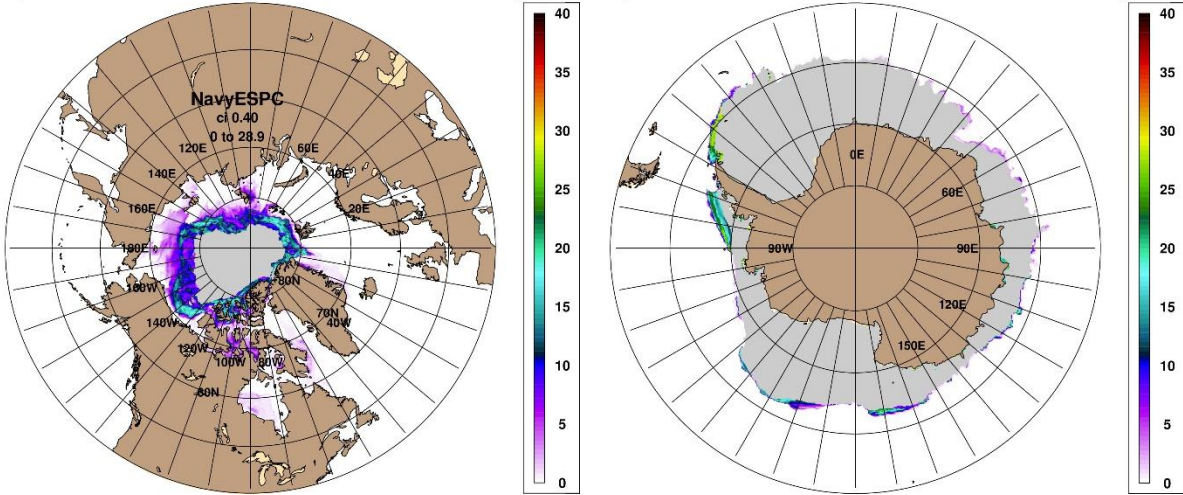


Figure 6: Standard deviation of first ice-free ordinal date, with gray indication a data void (i.e., no ice free days as the most likely outcome) from the Navy Earth System Prediction Capability 16 member ensemble using 1 July 2020 initial conditions.

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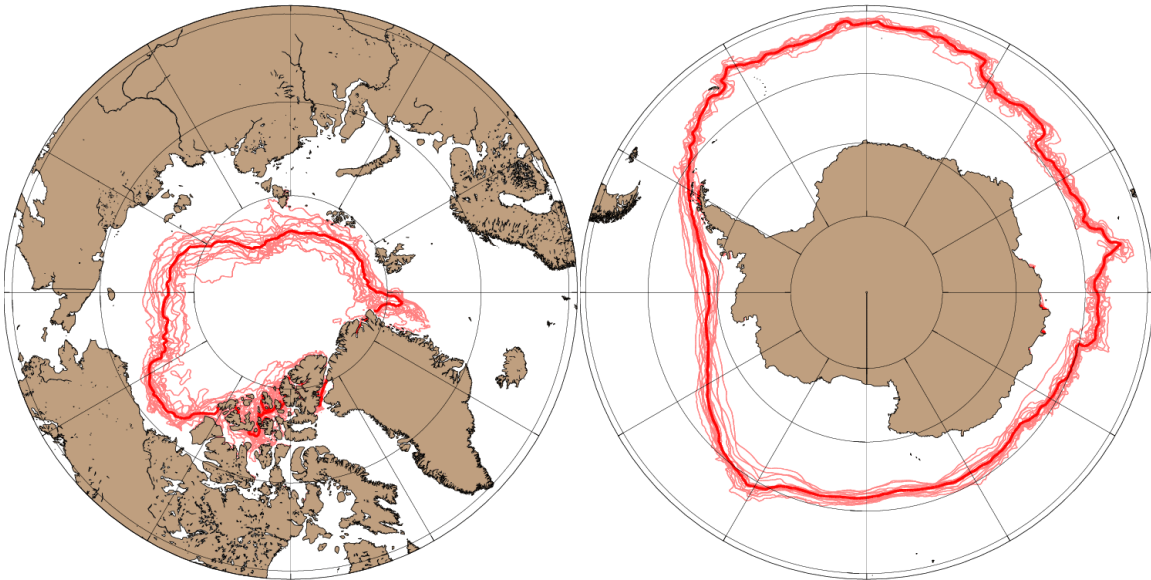


Figure 7: Sea ice concentration (15%) contours of the September median from the Navy Earth System Prediction Capability 16 member ensemble using 1 July 2020 initial conditions. The lighter contours show the individual ensemble members while the dark contour shows the ensemble median.

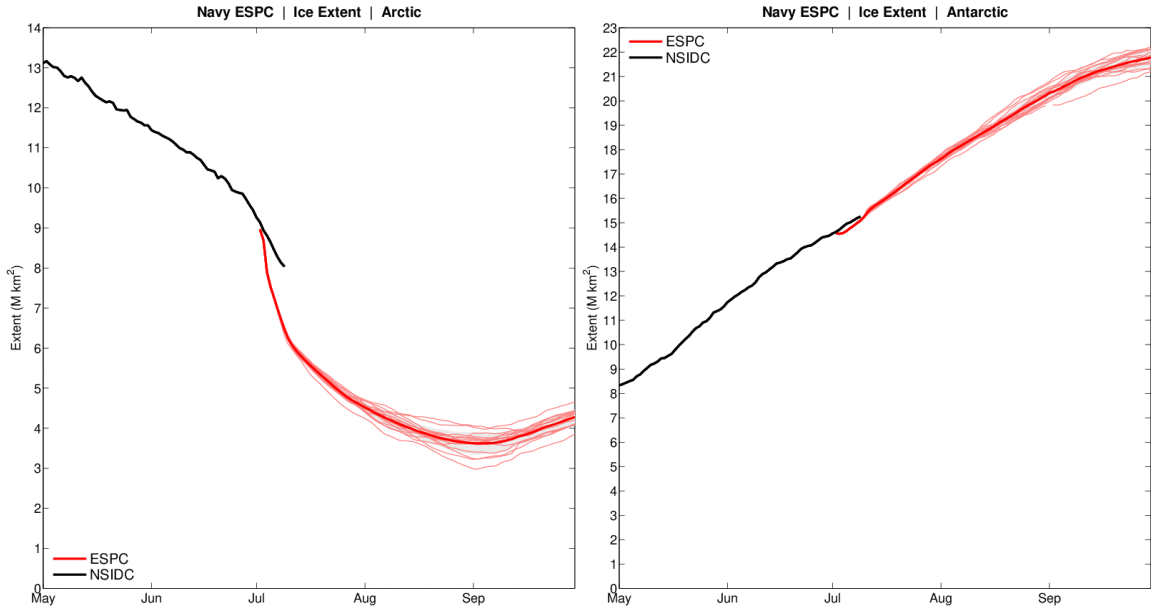


Figure 8: Areal sea ice extent (Mkm²) versus time from the Navy Earth System Prediction Capability 16 member ensemble using 1 July 2020 initial conditions (left – Arctic, right – Antarctic). The thin red curves show the individual members while the thick red curve shows the ensemble mean. The gray shading represents ± 1 standard deviation. For reference, the thick black curve indicates actual sea ice extent (to date) from the National Snow and Ice Data Center (NSIDC).