



**NATIONAL
WEATHER
SERVICE**

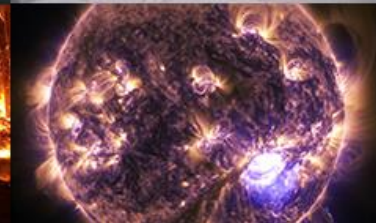
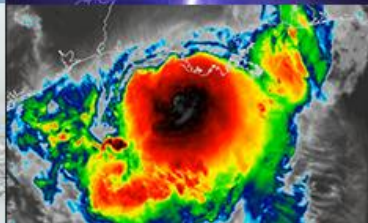
NWS/OSTI FY20 NOFO

UFS R20 Annual Meeting Briefing
Advancing the Unified Forecast System Verification and
Diagnostics Capability for Marine Applications



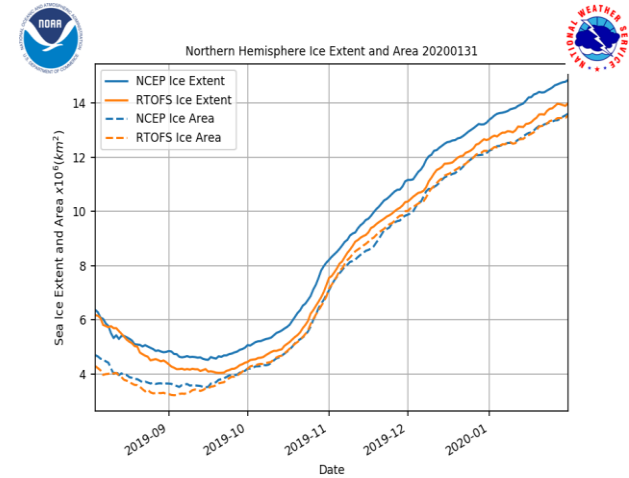
PIs: Tara Jensen (NCAR/RAL), Jason Levit (NOAA/EMC), Joseph Sienkiewicz (NOAA/OPC)
YR1 Target: METplus v4.1.0 –December 2021 release; available earlier via Beta releases

July 14, 2021



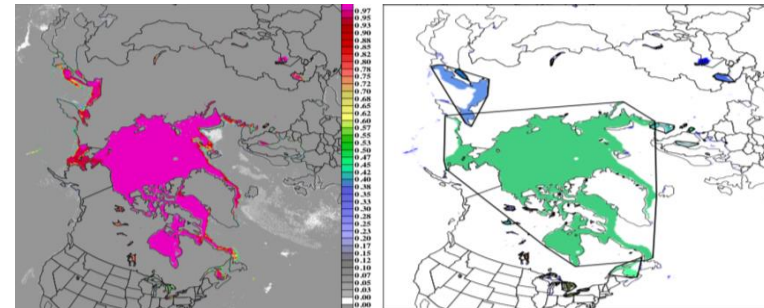
Project Goals and Progress

- EMC has developed a marine and cryosphere evaluation system including
 - Ice verification (07/31 – beta1)
 - Winds (08/31 – beta2)
 - Ocean fronts (08/31)
 - Gulf Stream (08/31)
 - Ocean Circulation (08/31)
- This project is focused on integrating EMC capability into METplus so it is part of the operational verification capability
- Previous work included a demonstration of how METplus could augment EMC capability through use of MODE on Sea Ice fraction



NCEP/EMC/Verification Post Processing Product Generation Branch

01 Feb 2020





Project Goals and Progress

- Additionally, OPC has very little model verification capability
- This project is also focused on developing a METplus-based verification system for OPC that will use and compliment EMC's capability
- Top YR1 priorities
 - Extra-TC and TC verification (07/31 – beta1)
 - Sea Ice (07/31)
 - Winds (08/31 – beta2)
 - Especially wind warning events (09/30 – beta3)
 - Wave Heights (08/31)
 - Precipitation (09/30)

