

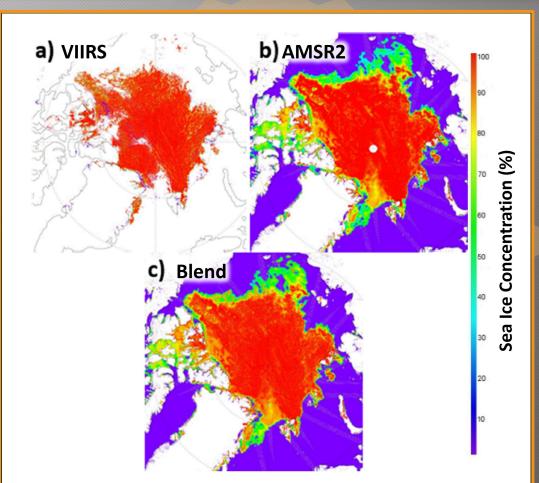
## JPSS Micro-lesson Training Series for Satellite-based Sea Ice Products

Kevin Fuell & Matt Smith (UAH at NASA/SPORT)

as part of the Training Initiative program within the Joint Polar Satellite Series (JPSS) Program

October 2024

## Training Proposal Work Purpose/Goals



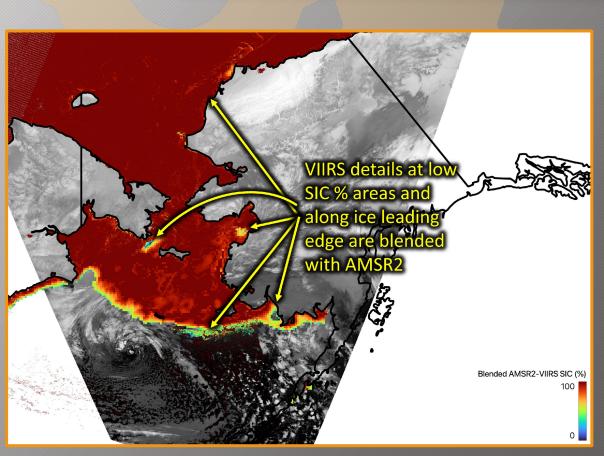
- The goals of this proposal are
  - to increase the awareness
  - In operational & research communities
- of the existing JPSS snow and sea ice "base" products (VIIRS, ATMS, AMSR2), as well as soil moisture (AMSR2) and
  - to increase utilization of these products
  - in data sparse regions
  - for daily operational analysis & modeling



#### Sea Ice

#### **Products**

# SMEs and Collaborators



- Ice Age/Thickness (VIIRS, AMSR2)
- Ice
   Concentration
   (VIIRS, ATMS, AMSR2)
- Ice Sfc Temperature (VIIRS)

Sea Ice Analysts Alaska Sea Ice Program

Training Coordinator
Physical Scientist at NWS Alaska
Region Headquarters and Arctic
Testbed Proving Ground

Dr. Yong-Keun Lee Lead on Cryospheric Products in MiRS at ESSIC/CISESS

Dr. Yinghui Liu Lead of the JPSS Cal/Val Cryosphere team at NESDIS/STAR (UW)

Dr. Jeff Key (early advisory)
Team Lead of JPSS Cryosphere
Products at NESDIS/STAR (UW)

## Status: JPSS Sea Ice Training



- 3 Microlessons in the series as well as the 'Data Access' table
- Posted to NASA/SPoRT webpage
- NOAA/Commerce Learning Center (CLC) availability & quiz to get training credit

Description

1.2 hrs
Duration

This series of 3 microle
Concentration, and Ag
large lakes, but they de
ATMS instruments with
instrument on the JAX







# Demonstration of Sea Ice Micro-lessons, Contact Info.

# JPSS Sea Ice Microlesson Series Posted on: 6/11/2024 JPSS Sea Ice Products START COURSE

This microlesson will present the JPSS "Sea Ice" products of Surface Temperature, Concentration, and Age. These products are for ice features that are floating either in the ocean or large lakes, but they do not include information related to land-based ice sheets. Both VIIRS and ATMS instruments within the JPSS satellite suite are used for these products as well as the AMSR2 instrument on the JAXA GCOM-W1 satellite. The audience for this module is intended to be both the operational user making short-term decisions as well as the researcher developing new solutions and science findings.

Authors: Kevin Fuell (UAH), Matthew Smith (UAH)
Contact Time: 15-30 minutes per Microlesson (3 total)
Language: English
Skill Level: 1
Training Format: Microlesson Series
Application Topic: Land/Ocean Surface

Training Links
Click icon(s) to view:

### NASA/SPoRT Training Site

Click on Microlesson button

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