

Creating Data Pipelines for Novel Ocean Observations

High-Level Agenda

February 16–18, 2027 | UCAR, Boulder, COFLI-2198 EOL Atrium

Workshop Overview

Participants will work with novel observations from autonomous platforms, including underwater gliders, uncrewed surface vehicles, and related datasets, through hackathon-style sessions focused on standardization, quality control, and ingestion into CrocoLake. CrocoLake is a standardized repository of analysis-ready observations that supports model-data comparison and future data assimilation. Participants will leave with a path to move their own datasets through the workflow, with NCAR/UCAR support to develop forward operators that augment forecast and prediction systems.

Day 1, Full Day (all times local)

Time	Agenda Topic	Lead
8:30	Gather (Breakfast and Coffee Provided)	
9:00	Welcome and Overview - Introduce the project - Workshop goals - Hands-on work sessions overview	COL/UCP Lead NCAR Lead
9:30	Shared Technical Context - Brief orientation to CrocoLake and related tools - DART/JEDI needs - Metadata expectations - QC conventions and assimilation definitions	Project Leads
10:30	Break	
10:45	Sample Dataset to CrocoLake Walk through a workflow to go from dataset access to an CrocoLake integration	Project Leads
11:00	Sprint Setup - Form dataset sprint teams - Assign working roles - Define each team's practical technical target	All Participants
12:30	Lunch	
1:30	Dataset Sprint Block 1	All Participants
3:15	Break	
3:30	Dataset Sprint Block 2	All Participants
5:15	Day 1 Wrap-up - Confirm Day 2 goals - Expected outputs - Decisions needed	Project Leads
5:30	Adjourn	

Day 2, Full Day (all times local)

Time	Agenda Topic	Lead
8:30	Gather (Breakfast and Coffee Provided)	
9:00	Regional Modeling and Model-to-Observation Workflows	Invited Speakers
9:45	DA and OSSE applications	Invited Speakers
10:30	Break	
11:00	Dataset Sprint Block 3	All Participants
12:15	Lunch	
	Dataset Sprint Block 4	All Participants
2:30	Break	
2:45	Dataset Sprint Block 5	All Participants
4:30	Cross-Team Checkpoint	All Participants
5:15	Day 2 Wrap-Up • Confirm Day 3 goals • Expected outputs • Decisions needed	Project Leads
5:30	Adjourn	

Day 3, Half Day (all times local)

Time	Agenda Topic	Lead
8:30	Gather (Breakfast and Coffee Provided)	
9:00	Final Sprint and Documentation	All Participants
10:00	Report-Out Preparation	All Participants
10:45	Break	
11:00	Groups Present Work	All Participants
11:45	Summary and Next Steps • Identify follow-up tasks • Communication channels • Opportunities for continued collaboration	Project Leads
12:00	Adjourn	