

OPERA

Observational Products for End-Users from Remote Sensing Analysis

Fifth OPERA Workshop

September 11, 2025

Start time: 8:30 am PDT

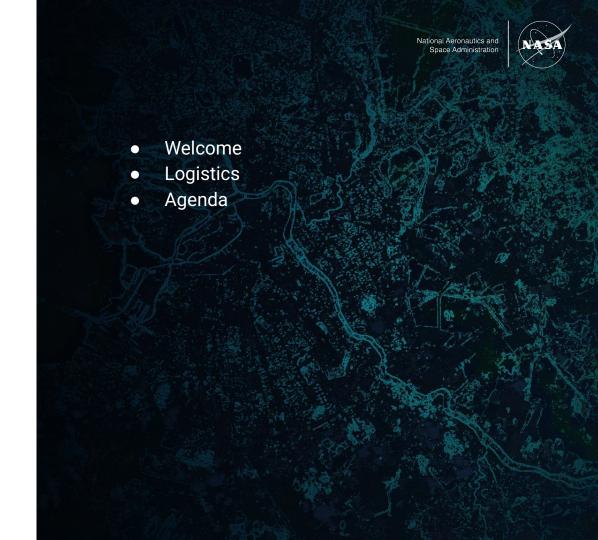
Opening & Housekeeping

5th OPERA Workshop Opening Remarks

Elodie Macorps

NASA Goddard Space Flight Center University of Maryland

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This workshop is open to US and non-US participants. The
material presented has been cleared for unlimited release.
No ITAR information is to be presented.



Welcome to the 5th OPERA Workshop



Today marks the **5th OPERA Workshop**. Welcome!

Under OPERA's **Stakeholder Engagement Program (SEP)**, we organize annual workshops to promote our dialogue with OPERA's stakeholders – end users of federal/state agencies, commercial sector and academia

Workshop objectives:

- Provide updates on OPERA products that are in production: Dynamic Surface Water eXtent (DSWx), Surface Disturbance (DIST), Surface Displacement (DISP), Coregistered Single-Look Complex (CSLC), and Radiometric Terrain Corrected (RTC) SAR backscatter.
- Status update on upcoming OPERA products to be released in 2026: DSWx-NISAR, DIST-S1.
- Introduce the upcoming Sentinel-1 and NISAR-based Vertical Land Motion (VLM) products.
- Demonstrate how to access and leverage OPERA products for common applications.
- Learn how stakeholders are using OPERA products and solicit feedback.

Workshop Logistics



This workshop slides and presentations will be recorded and posted on OPERA website.

To ensure a smooth virtual workshop...

- Turn your camera off to preserve bandwidth.
- You are muted by default and not allowed to turn-on/off mics. Our moderators will activate the mic in the discussions, as needed.
- Use "Teams Chat" for questions.
 Our moderators will track asked questions frequently.
 If you are using a guest account, please add your name & affiliation so we can follow up with any unanswered questions offline.
- You can also use "Teams Chat" if you have any IT-support questions.



Quick Look through Today's Agenda



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8:35	HQ Welcome	Natasha Sadoff, Satellite Needs Program Manager and SNWG Principal (10 min)
8:45	Satellite Needs Working Group Management Office Updates	Pontus Olofsson, MSFC (10 min)
8:55	Project Status and Updates:	Steven Chan, JPL (15 min)
9:10	Stakeholder Engagement Updates	Elodie Macorps, GSFC (10 min)
9:20	OPERA Data Use by Stakeholders	USACE (15 min) - Kaitlyn Engel and Josh Smallwood (US Army Corps of Engineers), "The impact of varying input data on the flood inundation mapping case study: 2022 Pakistan & 2024 North Carolina, USA floods" USDA ARS Iowa (15 min) - Thanos Papanicolaou (USDA National Laboratory for Agriculture and the Environment), "Inundation and disturbance in farm lands via OPERA" NGIS (15 min) - Evan DeLancey (NGIS), "DIST alerts for rapid creation of forestry supply chain geospatial data" USGS Volcano Science Center (15 min) - Marco Bagnardi (USGS), "Monitoring of volcanoes with SAR: Ground deformation and surface changes"

15 min break		
10:35	Accessing OPERA Data	Matt Bonnema, JPL (15 min)
10:50	Google Earth Engine (GEE) and AlphaEarth	Simon (Vsevolod) Ilyushchenko, Google (15 min)
	Leafmap	Qiusheng Wu, U Tennessee (15 min)
	ArcGIS	Dinuke Munasinghe, U Alabama (15 min)
	NASA Worldview	Catalina Taglialatela, JPL (15 min)
	Science and Disaster Response Applications	Cole Speed, Bryan Raimbault and Grace Bato, JPL (25 min)
	Applications	Total = 85 min
		Jungkyo Jung, JPL (10 min)
		Scott Staniewicz, JPL (10 min)
12:15	Development Status of Upcoming Products (DSWx-NISAR, DISP-NISAR, DIST-S1, VLM)	Richard West, JPL (10 min)
		Marin Govorcin, JPL (10 min)
		Total = 40 min
12:55	Closing Remarks	Steven Chan, JPL (5 mins)

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