### *GOES-R and JPSS Satellite Data and Tools Available through Cloud Service Providers*
Sunday, January 28, 2024

**AGENDA**

**Short Course description:** Participants will learn how to access GOES-R and JPSS satellite data and use the tools available from the three Cloud Service Providers (CSP): Microsoft Azure, Google Cloud, and Amazon Web Services (AWS). Each CSP will present where the data is, how to access the data, and the tools available to process, display, and analyze GOES-R and JPSS satellite data and products. A case study allowing hands-on experience will include investigating a severe weather event using the GOES-R and JPSS satellite data and products on the CSP platforms. At the end of the short course, participants will have developed a familiarity in accessing the satellite data and products from the cloud for prediction, monitoring and/or research.

| Time EASTERN TIME | Session Title | Instructors |
|---|---|---|
| 8:00-8:30 AM ET | Coffee, network, confirm everyone has access to any necessary files and answer any questions | Hybrid |
| 8:30 AM ET | Introductions/Course Summary | Sherrie Morris, STC for GOES-R Program Office<br>Gary McWilliams, STC for JPSS Program Office |
| 8:35 AM ET | NOAA Open Data Dissemination (NODD) – Open Data Access to NOAA Satellite Data | Adrienne Simonson, Director, NODD |
| 8:45 AM ET | Geostationary Earth Observations (GEO) Program | Dr. Dan Lindsey, NOAA/NESDIS, GOES-R Program Scientist |
| 9:00 AM ET | Low Earth Orbit (LEO) Observations Program | Dr. Satya Kalluri, NOAA/NESDIS, Program Scientist for LEO and JPSS Programs |
| 9:15 AM ET | GOES-R Series and JPSS Satellites: User Engagement | Jeremy Goldstein (GST for LEO/JPSS)<br>Steve Superczynski (GEO/GOES-R) |
| 9:45 AM ET | JPSS and GOES-R Satellite Data in Google Cloud & Google Cloud Tools<br>● Interactive hands-on exercise using Google tools and the Collaboratory site | Antonio Lobato, Engineering Manager, Google Cloud Services |
| 10:35 AM ET | **COFFEE BREAK** | |

| 10:50 AM ET | GOES-R and JPSS Satellite Data in Microsoft Azure<br>  ● Interactive hands-on exercise using Microsoft Azure Tools and the Collaborative Planetary Computer site | Tom Augspurger, Data Scientist/Engineer, Microsoft Azure |
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| 11:40 AM ET | **Sponsor talk** (optional) | |
| 12:00 PM ET | **LUNCH** | |
| 1:00 PM ET | GOES-R and JPSS Satellite Data in Amazon Open Data<br>  ● Interactive hands-on exercise using select AWS Tools and the Sagemaker Studio site | Chris Stoner, Open Environmental Data Lead, AWS Open Data |
| 1:50 PM ET | **COFFEE BREAK** | |
| 2:05 PM ET | Hands-on Training: Analyzing JPSS and GOES-R Data Using Jupyter Notebook | Mya Sears, NCICS Outreach/Engagement Specialist<br>Jenny Dissen, NCICS Engagement Lead |
| 3:30 PM ET | Course Wrap Up | Sherrie Morris, STC for GOES-R Program Office<br>Gary McWilliams, STC for JPSS Program Office |
| 3:45 PM ET | Adjourn | |

Acronyms in order of appearance:
GOES-R: Geostationary Operational Environmental Satellites-R Series
JPSS: Joint Polar Satellite System
CSP: Cloud Service Providers
STC: Science and Technology Corporation
NOAA: National Oceanic and Atmospheric Administration
NODD: NOAA Open Data Dissemination
NESDIS: National Environmental Satellite Data and Information Service
GEO: Geostationary Earth Observations
LEO: Low Earth Orbit
GST: Global Science and Technology
AWS: Amazon Web Services
NCICS: North Carolina Institute for Climate Studies