

# Infrared Sounding Workshop and Technical Information Meeting (Virtual)

December 6, 2021

Satya Kalluri, Ph.D.  
Program Scientist for JPSS and LEO  
[Satya.kalluri@noaa.gov](mailto:Satya.kalluri@noaa.gov)  
November 30, 2021



# Background

- JPSS is the NOAA LEO flagship mission
  - provides mission critical observations for weather prediction as well as other applications in atmospheric chemistry, land surface dynamics and oceanography
- NOAA relies on a family of systems in collaboration with other inter-agency and international partners to obtain critical observations from Low Earth Orbit (LEO)
- Strategic investments in the ten-year funding profile aimed at achieving the evolving requirements for LEO observations through continuous innovation
- The purpose of these workshops and TIMs is to better understand how different measurements are used and listen to users on what improvements are needed in future mission planning.



# Approach to Engaging With Users

- Hold technical information meetings (TIMs) and workshops to:
  - Understand who the users are (Who)
    - NOAA line offices and international agencies that provide services to stakeholders (including the public)
  - What is the information the users are trying to extract (What)
    - "People don't want to buy a quarter-inch drill. They want a quarter-inch hole!"  
*Theodore Levitt, Harvard Business School*
  - How do the information providers use the measurements (How)
    - Models, visual imagery, forecasts, assessments, services etc.
  - Which measurements are important (Which)
    - Wavelengths/frequencies/resolution
  - Revisit our current understanding of information content (Why)
    - UV/VIS/NIR/IR/LW/MW
- Participate in conferences and meetings to gather the above information and keep stakeholders informed about the progress (AMS, AGU, IGARSS etc.)

# Current and Future Activities

- Held a virtual microwave sounding workshop on July 28, 2021
  - Participation from NWS, ECMWF, JMA, Metoffice (UK), STAR, JTWC, GMAO, IPWG
  - ~130 industry/academia/government participants
  - [https://www.jpss.noaa.gov/science\\_events/20210728-noaa-microwave-sounder-workshop/](https://www.jpss.noaa.gov/science_events/20210728-noaa-microwave-sounder-workshop/)
- **Today's workshop:** NOAA IR sounder TIM and Workshop, December 6, Monday
  - [https://www.jpss.noaa.gov/science\\_events/20201206-noaa-virtual-infrared-sounder-workshop/](https://www.jpss.noaa.gov/science_events/20201206-noaa-virtual-infrared-sounder-workshop/)
- Plan to hold similar meetings along measurement themes in 2022



# Agenda

Time	Speaker
8:25 – 8:30 AM	Satya Kalluri, JPSS/NOAA
8:30 – 8:45 AM	Greg Mandt, JPSS/NOAA
8:45 – 9:10 AM	Norio Kamekawa, Japan Meteorological Agency
9:10 – 9:35 AM	Tony McNally, European Centre for Medium-Range Weather Forecasts
9:35 – 10:00 AM	John Eyre, Met Office, UK
10:00 – 10:25 AM	Cathy Clerbaux, LATMOS/Institut Pierre Simon Laplace, France
10:25 – 10:50 AM	William Smith, SSEC, University of Wisconsin at Madison
10:50 – 11:15 AM	William McCarty, Global Modeling and Assimilation Office, NASA
11:15 – 11:40 AM	Andrew Collard, National Centers for Environmental Prediction, NOAA
11:40 – 12:30 PM	<b>BREAK</b>
12:30 – 12:55 PM	Kaitlin Rutt, National Weather Service, NOAA
12:55 – 1:20 PM	Greg Frost, Oceanic and Atmospheric Research, NOAA
1:20 – 1:45 PM	Brad Pierce, SSEC, University of Wisconsin at Madison
1:45 – 2:10 PM	Kevin Bowman, JPL/NASA
2:10 – 2:35 PM	Kazuyuki Miyazaki, JPL/NASA
2:35 – 2:50 PM	Fiona Smith, Bureau of Meteorology, Australia
2:50 PM	<b>CLOSING REMARKS</b>





# Thanks!

