

APN Training March 2022

	Time (GMT)	21 st March	22 nd March	23 rd March	24 th March	25 th March
Session 1	3.00 – 5.00 am (11.00 – 13.00 MYT)	<p>Introduction to APN Research Project</p> <p>Video: An Inside Look at How NASA Measures Air Pollution - Part 1 (1:06 Min. + Q&A)</p> <p>Dr. Melanie Follette-Cook, Dr. Ana Prados, and Dr. Pawan Gupta NASA ARSET</p>	<p>Video: Remote Sensing of NO2 with OMI - (52 Min.)</p> <p>Dr. Melanie Follette-Cook and Dr. Pawan Gupta NASA ARSET</p> <p><i>Assignment:</i></p> <p><i>Practice downloading OMI data following video instructions</i></p>	<p>Introduction to the training platform</p> <p>Sabrina Szeto, EUMETSAT</p> <p>[10 minute break]</p> <p>Satellite Data Discovery: GOME-2, OMI and Sentinel-5P workflows for NO2</p> <p>Sabrina Szeto, EUMETSAT</p>	<p>Video: An Inside Look at How NASA Measures Air Pollution - Part 2 (1:30 Min + Q&A)</p> <p>Dr. Pawan Gupta, Dr. Melanie Follette-Cook, and Dr. Ana Prados NASA ARSET</p>	<p>Video: Aerosol observations from the HIMAWARI, GOCI, and GEMS satellites over Asia (1:03 Min.)</p> <p>Myungje Choi, Yonsei University, South Korea NASA ARSET</p> <p>[10 minute break]</p> <p>Satellite Data Discovery: Smoke impacts from wildfires in Indonesia</p> <p>Sabrina Szeto, EUMETSAT</p>

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Session 2	7.00 -9.00 am (15.00 -17.00 MYT)	<p>Lecture on observational advantages and drawbacks, introduction to Sentinel 4 and 5</p> <p>Dr. Federico Fierli, EUMETSAT</p> <p>Lecture on Satellite monitoring: trends and variability, advantages and drawbacks</p> <p>Dr. Anu-Maija Sundström, Finnish Meteorological Institute</p>	<p>Video: Introducing TROPOMI - High Resolution NO2 Observations from Space (1:33 Min.)</p> <p>Dr. Melanie Follette-Cook and Dr. Pawan Gupta NASA ARSET</p> <p><i>Assignment:</i></p> <p><i>Practice downloading Sentinel 5P NO2 data following video instructions</i></p>	<p>Lecture on Copernicus Atmosphere Monitoring Service (CAMS)</p> <p>Dr. Mark Parrington, ECMWF</p> <p>Satellite Data Discovery: CAMS workflows</p> <p>Dr. Mark Parrington, ECMWF and/or Sabrina Szeto, EUMETSAT</p>	<p>Video: Read, Map, and Analyze Level 2 MODIS AOD Data & VIIRS aerosol products - data analysis using python scripts (1:10 Min.)</p> <p>Dr. Melanie Follette-Cook and Dr. Pawan Gupta NASA ARSET</p> <p><i>Assignment:</i></p> <p><i>Try out the Python workflows introduced in the video</i></p>	<p>Satellite Data Discovery: MODIS AOD and IASI data</p> <p>Sabrina Szeto, EUMETSAT</p> <p>Closing of Workshop</p>

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Session 3	13.00 -14.00 pm (21.00 -22.00 MYT)	Q&A Dr. Federico Fierli EUMETSAT Dr. Melanie Follette-Cook, Dr. Pawan Gupta NASA ARSET	Q&A Dr. Melanie Follette- Cook Dr. Pawan Gupta NASA ARSET	Q&A Dr. Mark Parrington, ECMWF Dr. Federico Fierli, Sabrina Szeto EUMETSAT	Q&A Dr. Melanie Follette- Cook, Dr. Pawan Gupta NASA ARSET	

Suggested presentations for the attendees to go through these presentations in advance of training sessions. A kind of homework before training.

[Introduction to Remote Sensing](#)

[Satellite Imagery, Formats, and Data Access](#)

[Exploring Satellite Imagery Using NASA Worldview and Earth Observatory](#)