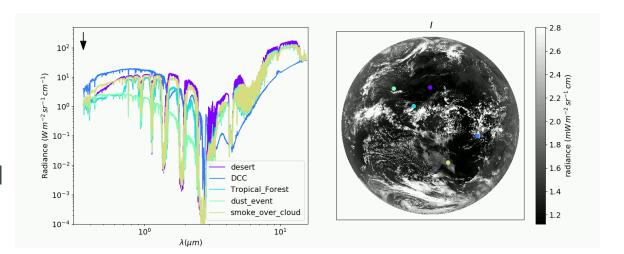






Generation of input data

- Output of optional phase of "datacube" study already presented at MAG Meeting 2021
 - www.eumetsat.int/HSR-Geo-simulations
 - Spectral coverage: [0.354,15.503] μm.
 - Simulation: SW-NIR: ARTDECO, IR: RTTOV
 - Spectral resolution: 0.5-1.0-2.0 nm in SW-NIR, IASI in IR
 - Freely available for research purposes on the European Weather Cloud (www.europeanweather.cloud), ~2Tb of data

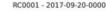


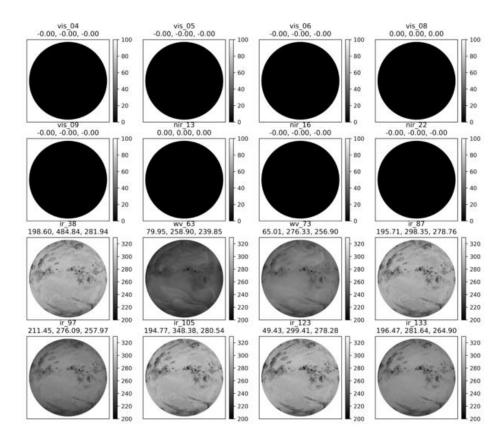
- Same framework used to compute 24h of data (15 min repeat cycle), in the wavelength ranges covered by FCI, SEVIRI and MetImage
- Latest instrument SRFs used to extract final channel arrays



Formatting to FCI L1c

- The input data for the FCI channels has been formatted to the L1c format
 - Version v4c, expected to be (very close to) the final dissemination format
 - Nearest-neighbour upsampling to
 - FDHSI grids: 1km (VISNIR), 2km (IR) SSP resolution
 - 10-min repeat cycles (144 in total)
 - A compressed version has been generated using the CharLS algorithm (as for the data disseminated through EumetCast)



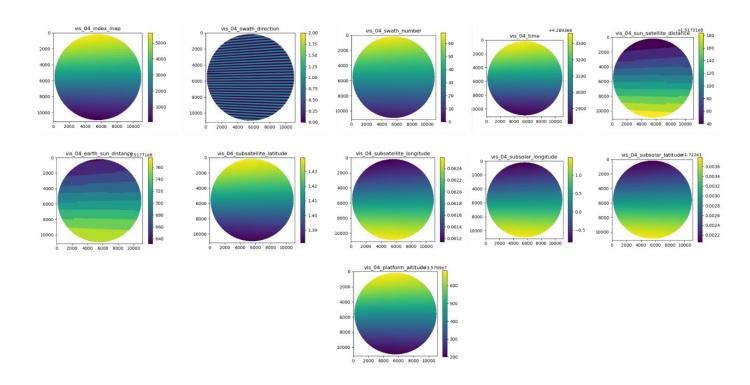


Formatting to FCI L1c

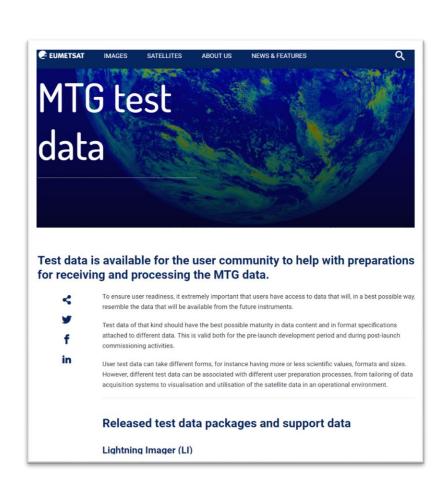
www.eumetsat.int

Further main features:

- Simulation of the acquisition geometry including the population of the 2-d index map and related geometric parameters
- Simulation of the pixel quality arrays
- Simulated hotspots that populate the 3.8µm channel extended fire range
- Radiometric coefficients computed using the latest FCI SRFs (recently released)

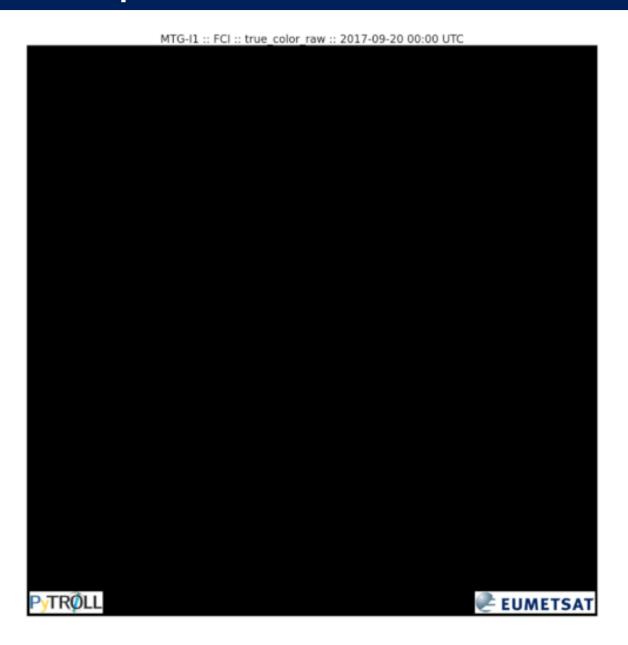


- The dataset has been publicly released in May 2022 (MTG-TD360)
- https://www.eumetsat.int/mtg-test-data
 - With links to FCI L1 Product User Guide (FCIL1PUG)
 - Link to Test Data Package Descriptions and SFTP download addresses
 - Link to decompression software package
- Full description of dataset properties and limitations in the Package Description Document



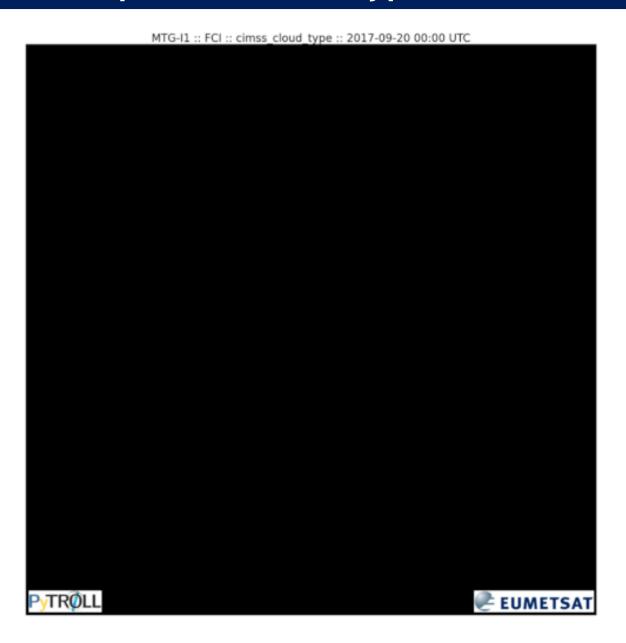


"New" RGB Examples – True Color





"New" RGB Examples – Cloud Type





"New" RGB Examples – Cloud Phase





Thank you!

Questions are welcome.