

FCI Weather Cases From Middle East and North Africa (MENA)

EUMETSAT Event Week 23 – 27 June 2025



Ibrahim Al Abdulsalam / Meteorologist

Meddle East Center of Excellence for Satellite Applications

Muscat\Sultanate of Oman

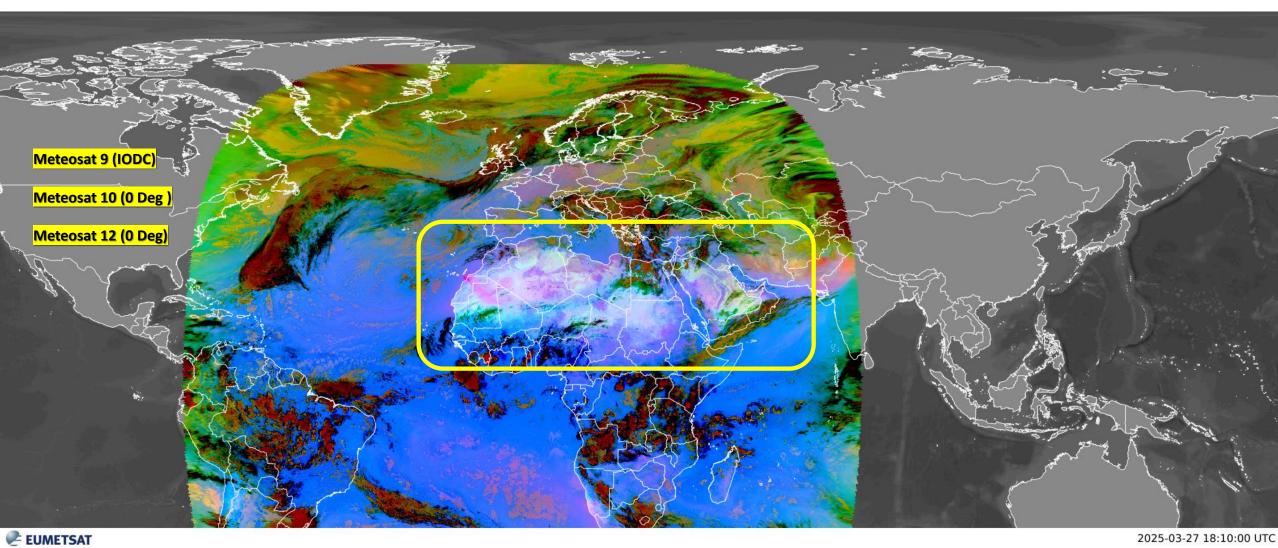
Ibrahim.Abdulsalam@caa.gov.om







MENA, Meteosat Coverage

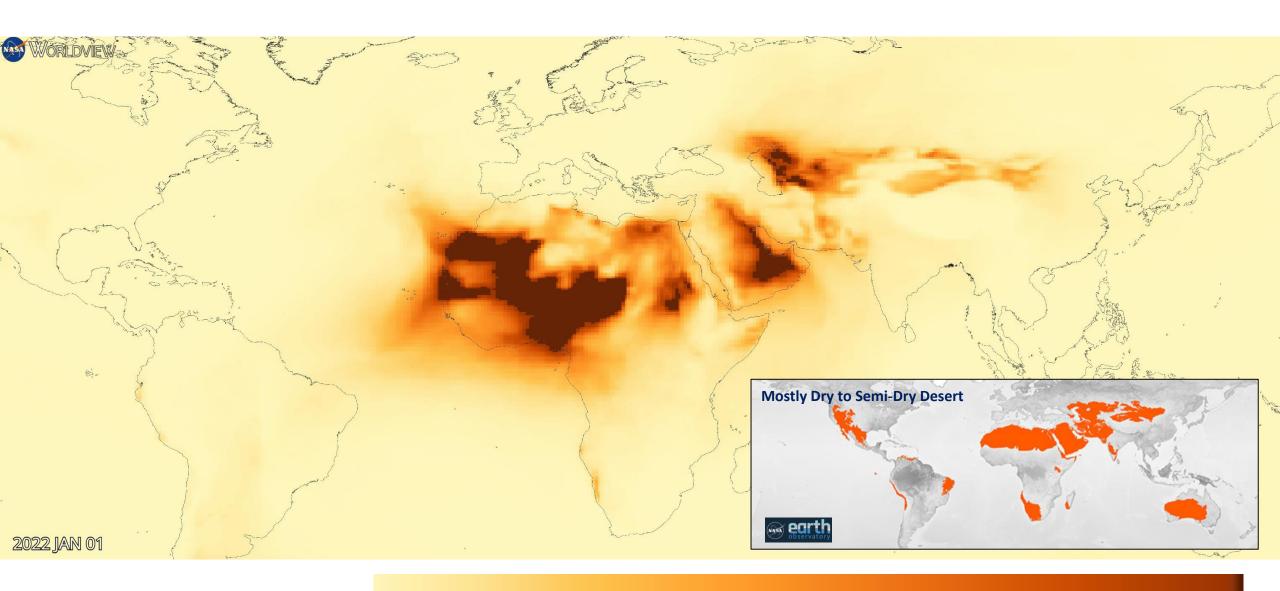








Dust Surface Mass Concentration PM2.5 (Particle Matter 2.5 um or less) (MERRA-2)







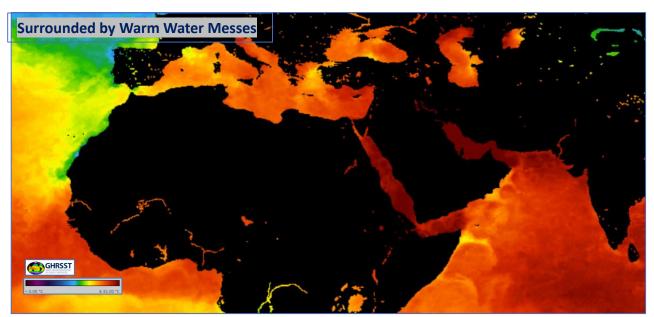


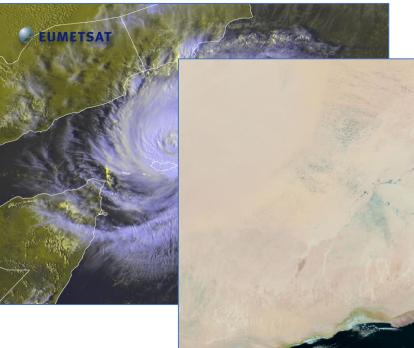
But it's not just about the dust and desert life!















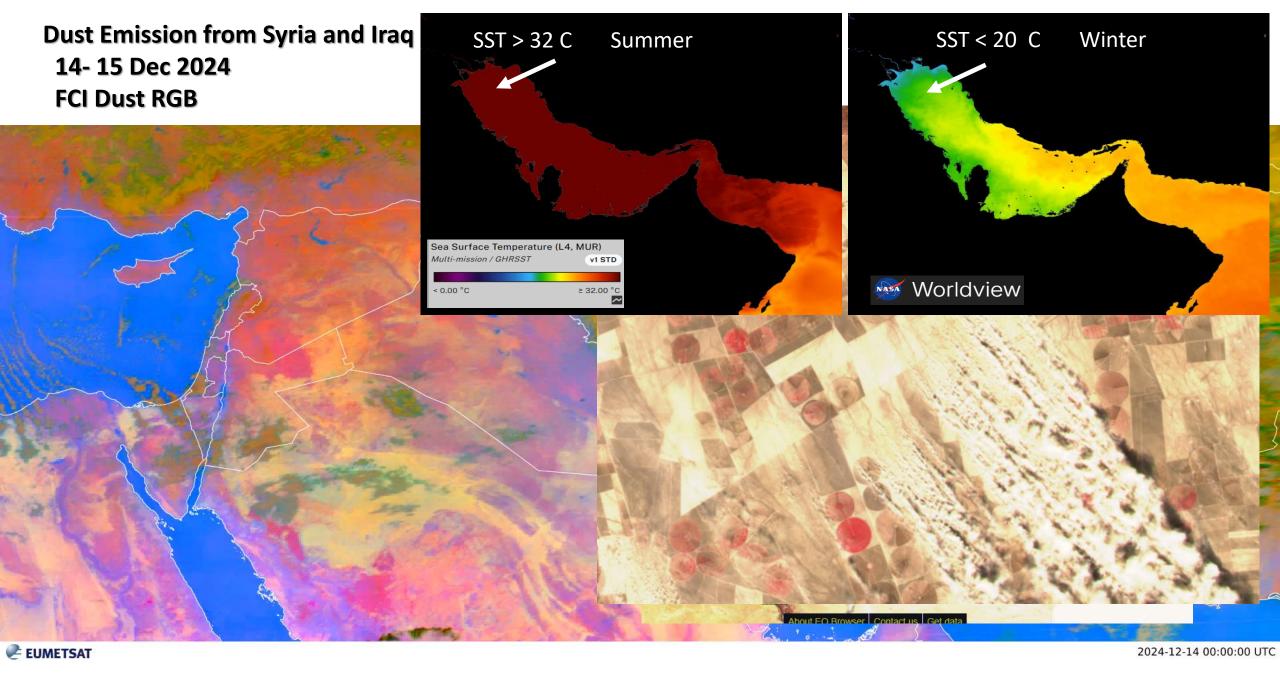


Case Studies by FCI







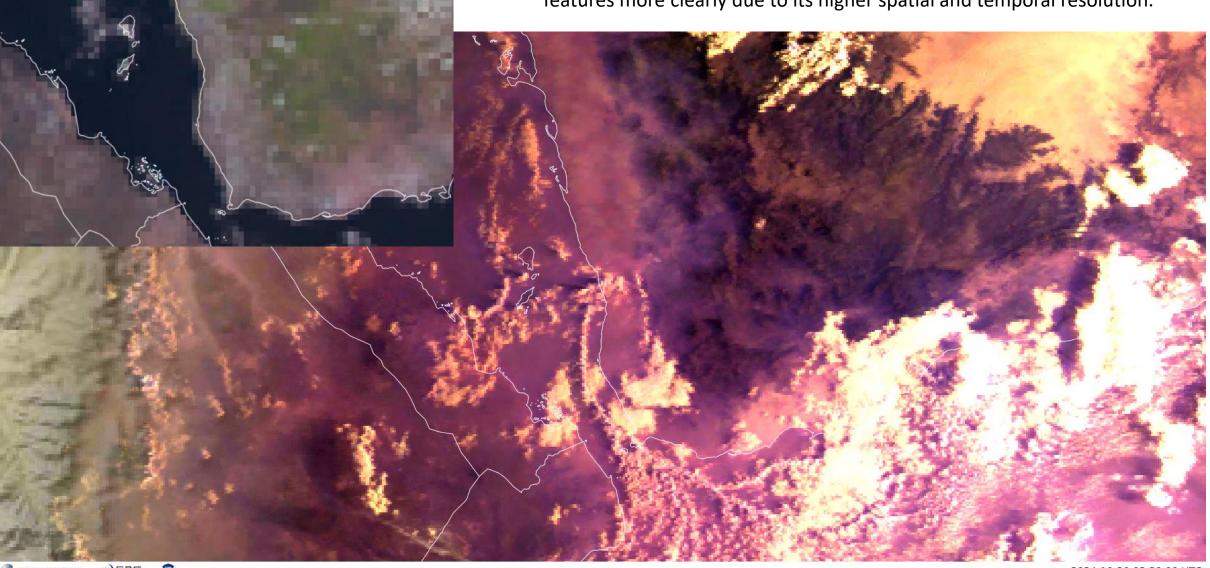






FCI vs SEVERI

Compared to SEVIRI, FCI's Cloud Phase RGB, for instance, reveals small-scale cloud features more clearly due to its higher spatial and temporal resolution.







SEVERI (NC RGB)



2024-10-20 03:30:00 UTC

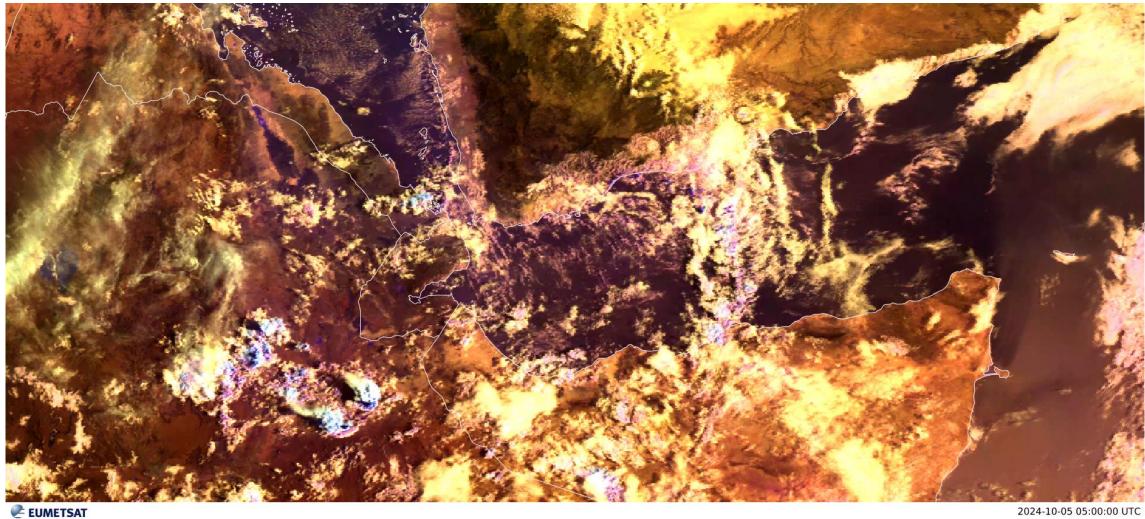






Small features are seen now with high spatial and temporal resolution

NIR1.6 NIR2.3 VIS0.6









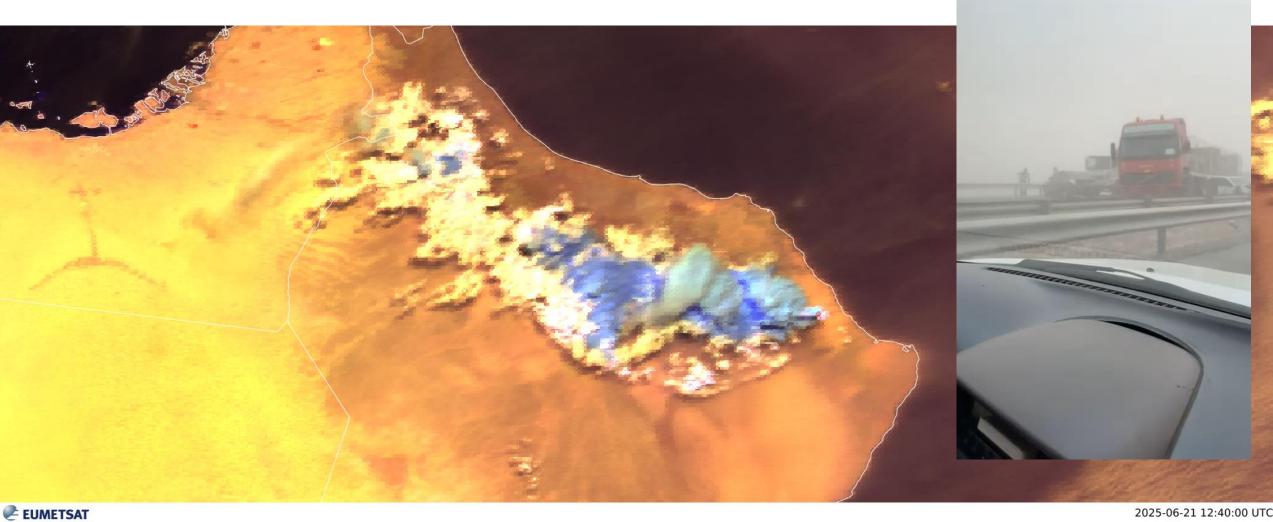
NIR1.6 NIR2.2 VIS0.6









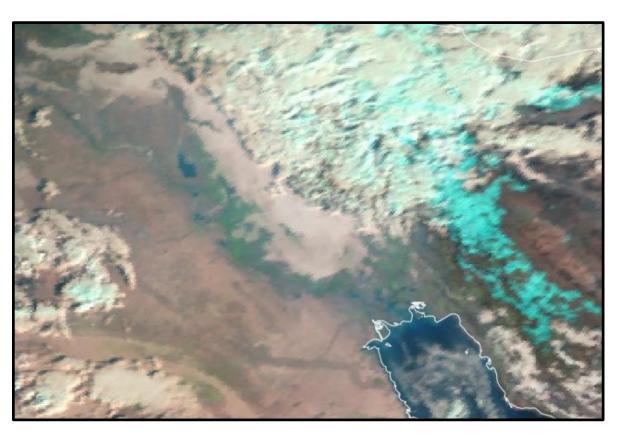


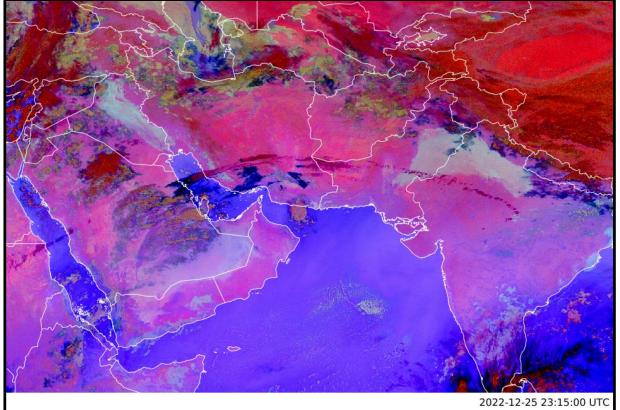






Fog and Low Cloud





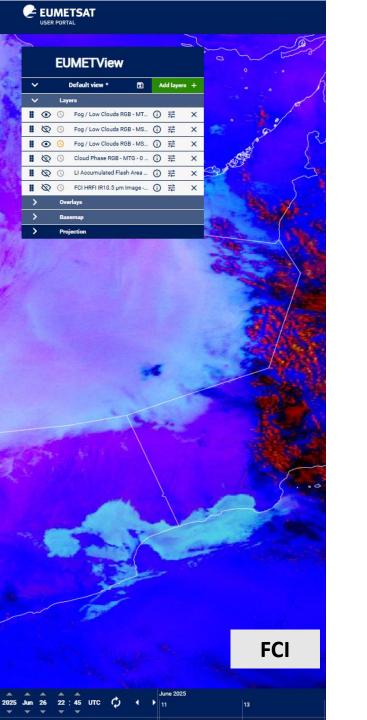


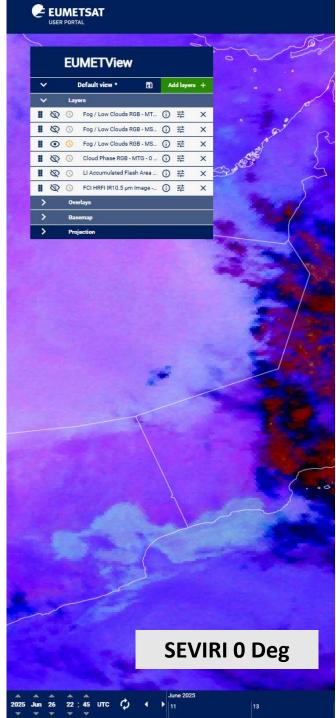


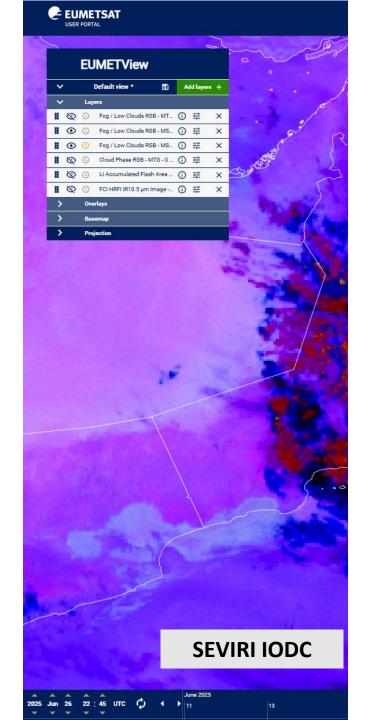


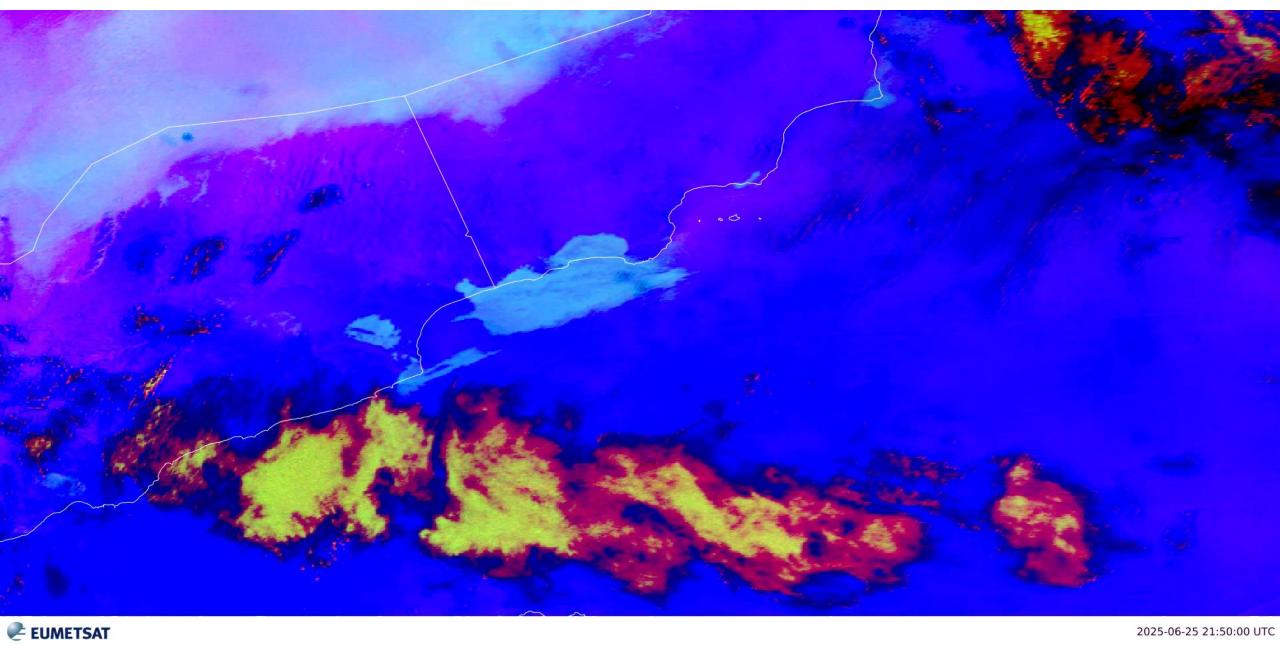




















Factory Fire, UAE, 18 April



Satellite Wildfire/Fire (Super HD)

Fri 04/18/2025, 01:10pm GMT+04

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meteologix.com

Satellite data: EUMETSAT

Grid map 55.8 E, 25.8 N (Zoom level 4 / Resolution 400m)

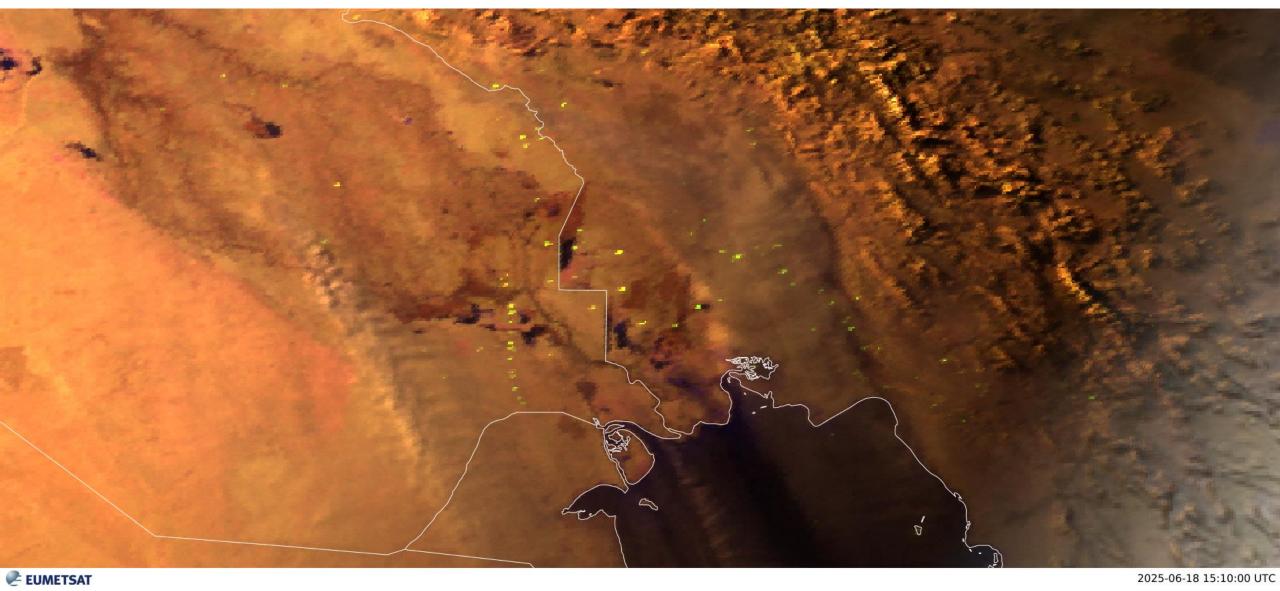








NIR1.6 NIR2.2 VIS0.6









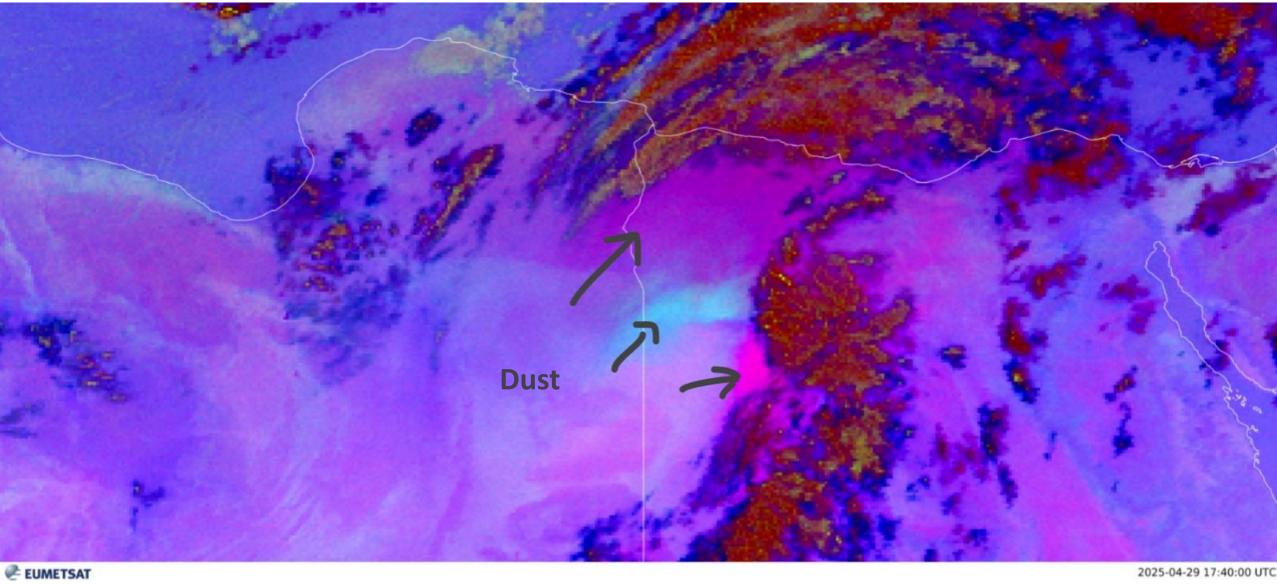
There is more if I have time!







Dust on Night Microphysics RGB

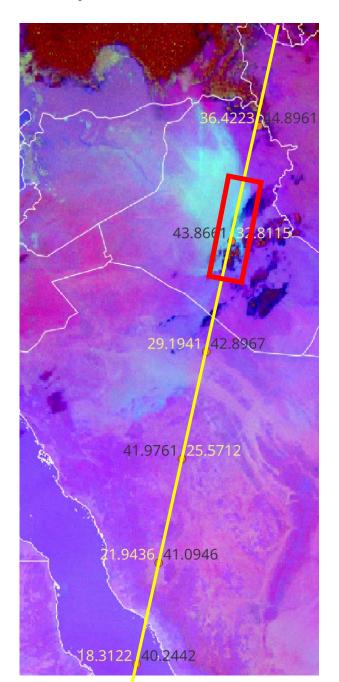


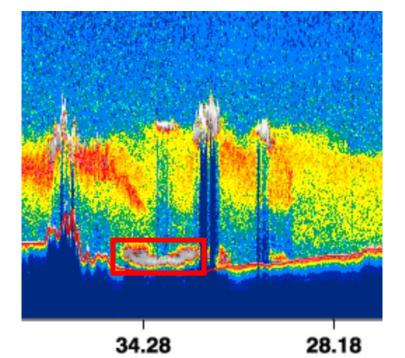


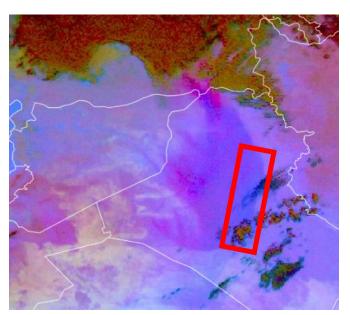


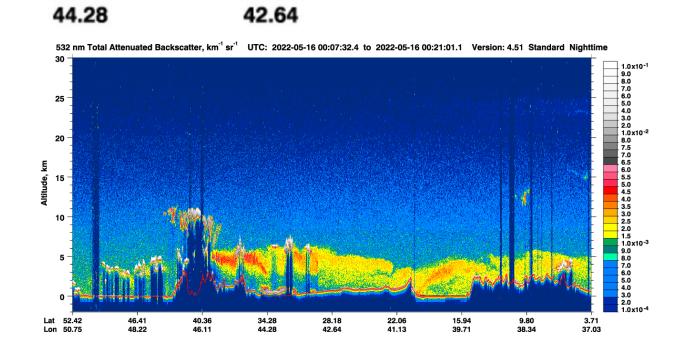


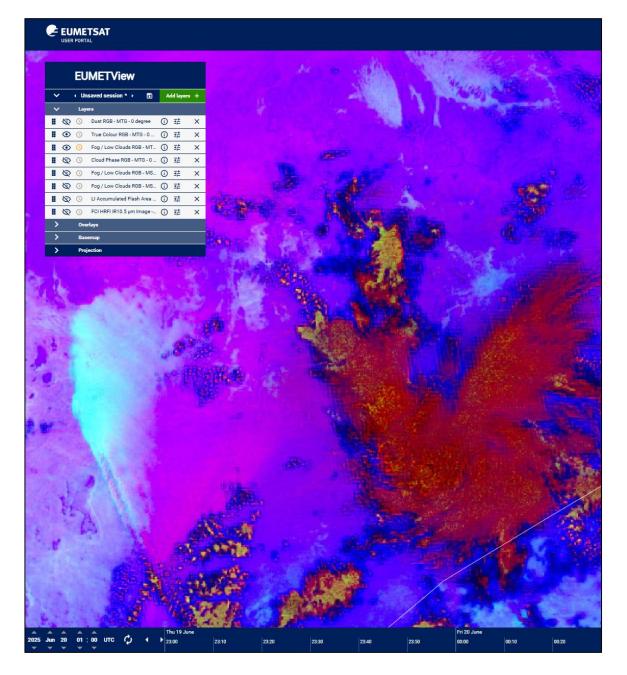
16 May 2022 0015 UTC

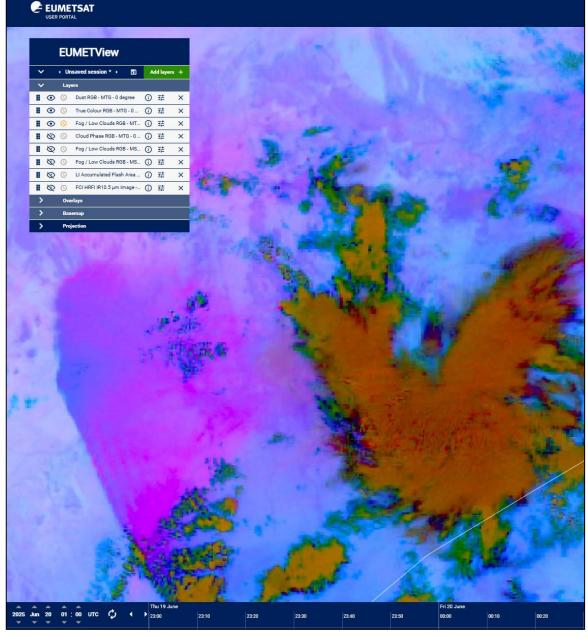








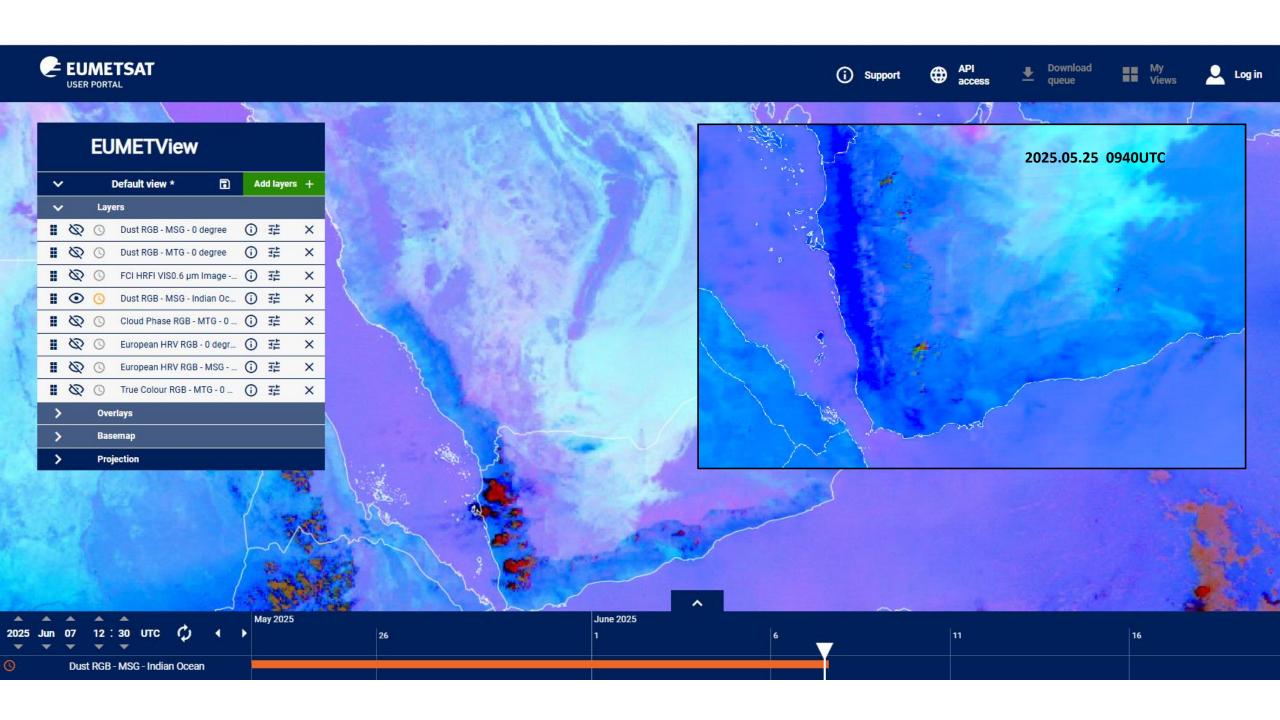


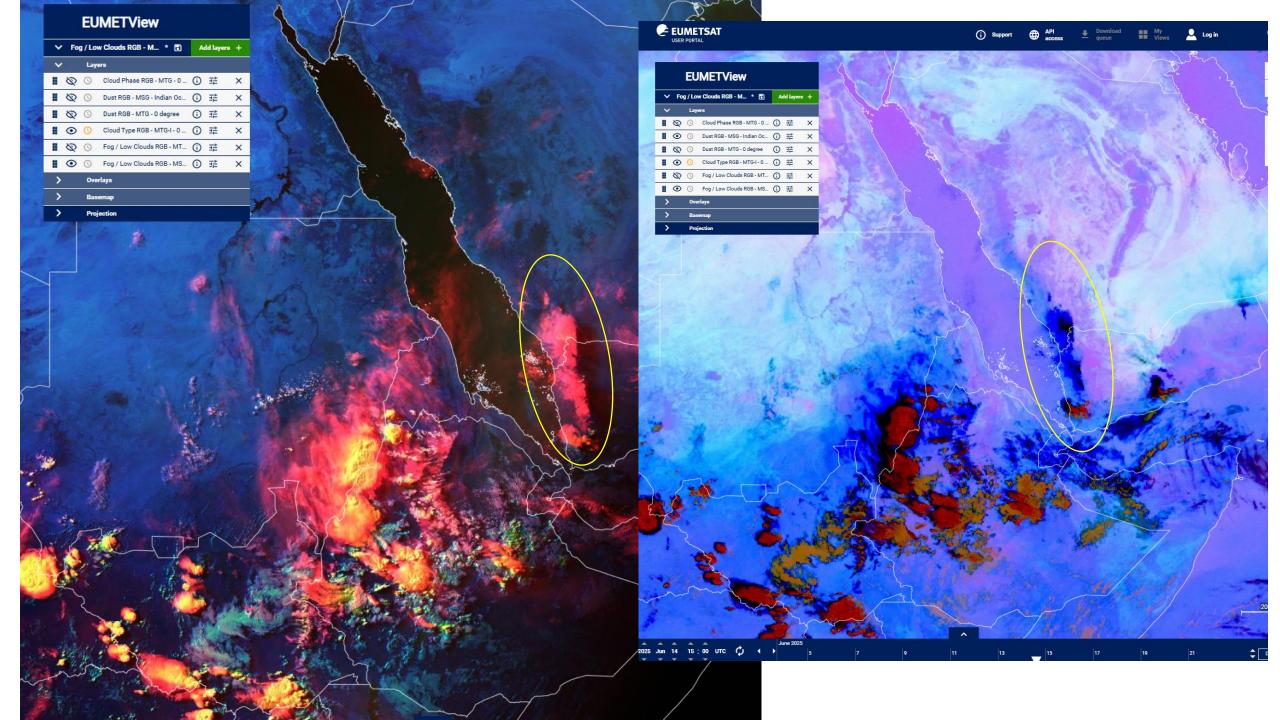


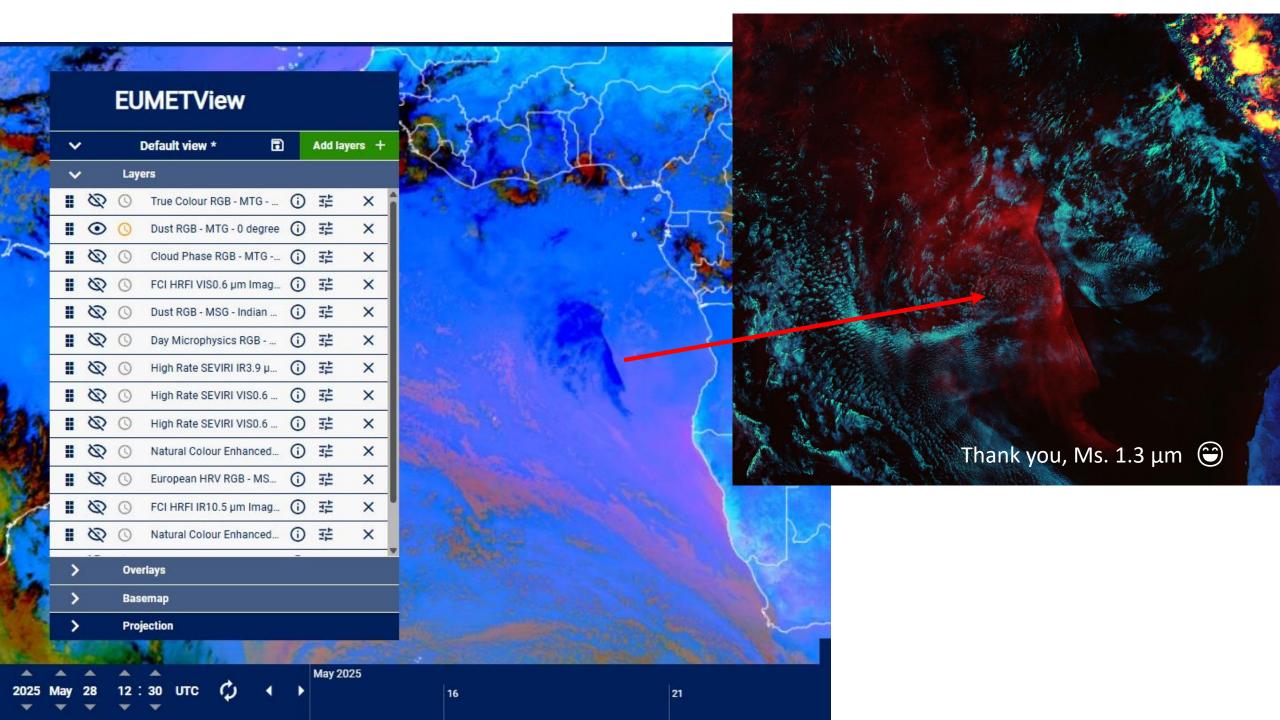




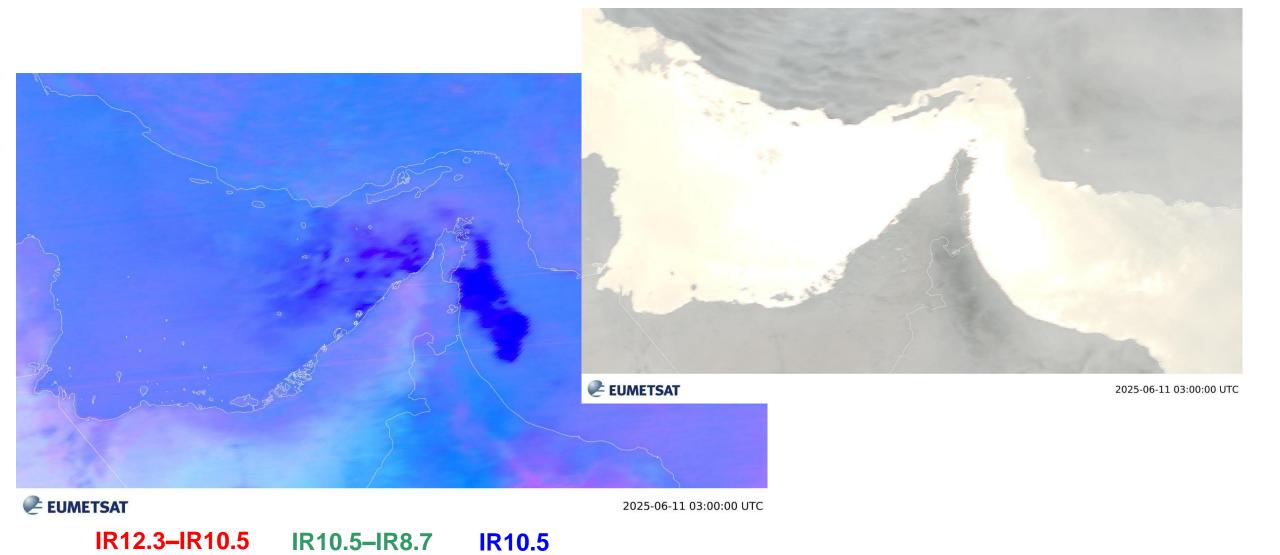








Sun glint 10.5 um!

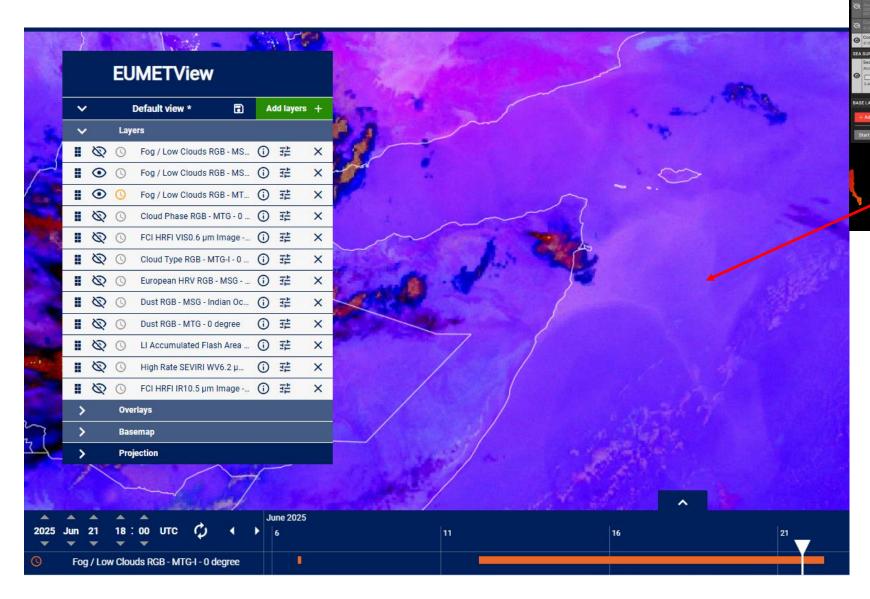








SST!



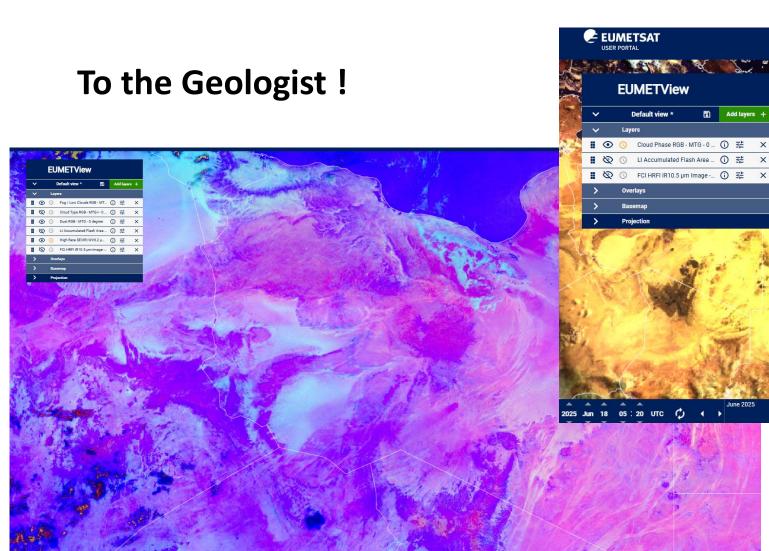
Worldview |

📚 Layers 🏥 Events 🕹 Data 📤





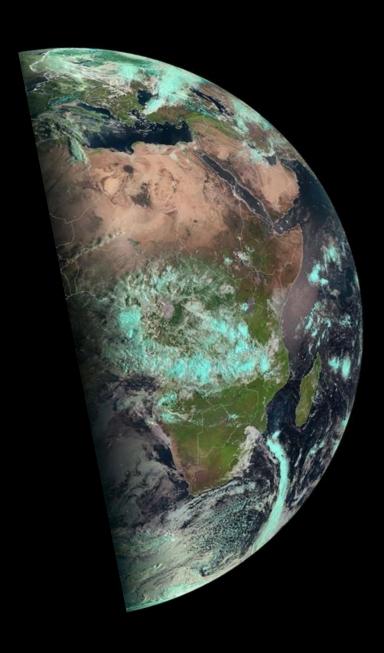












Thank You