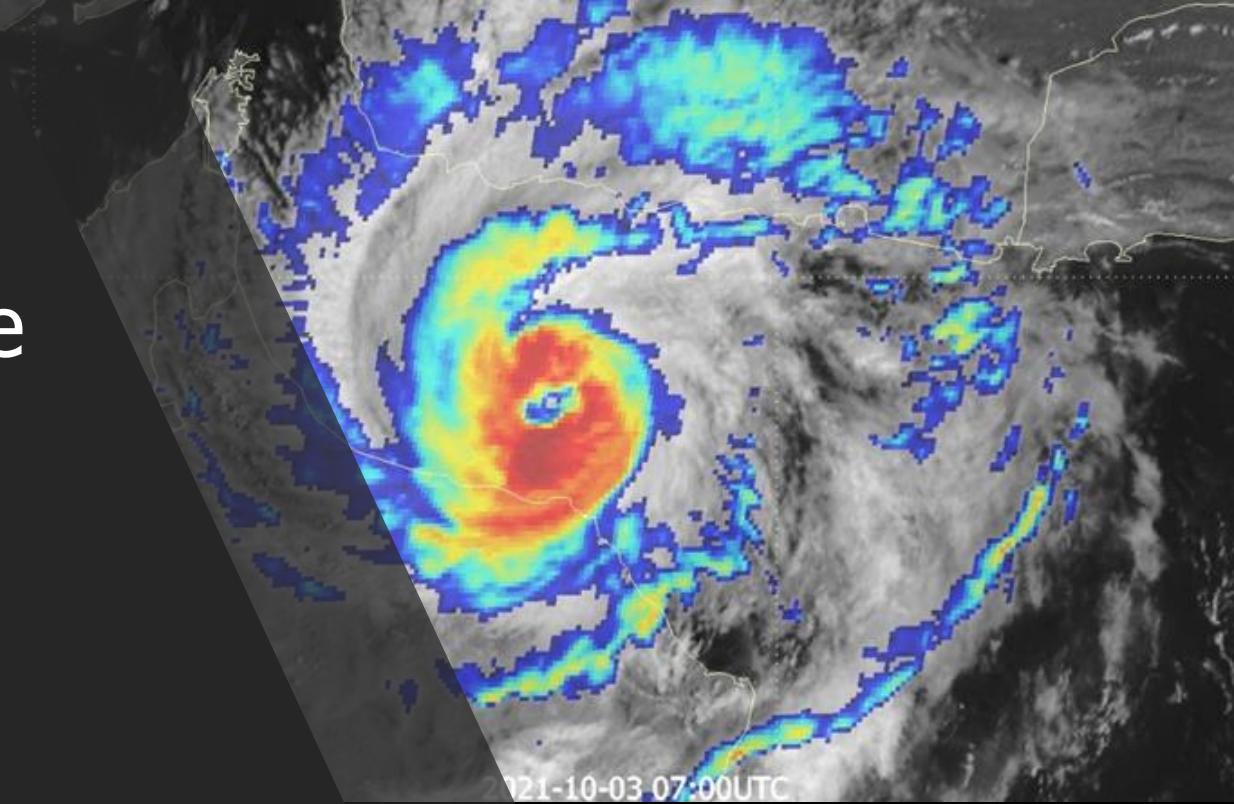
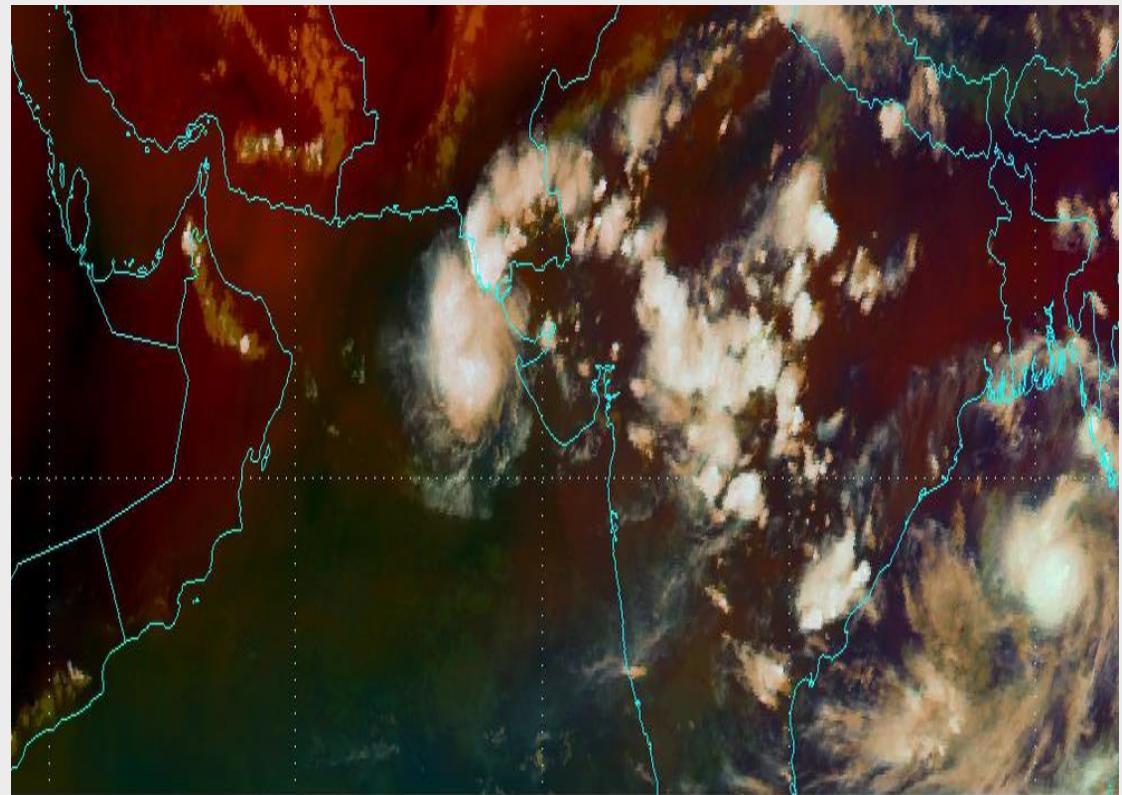


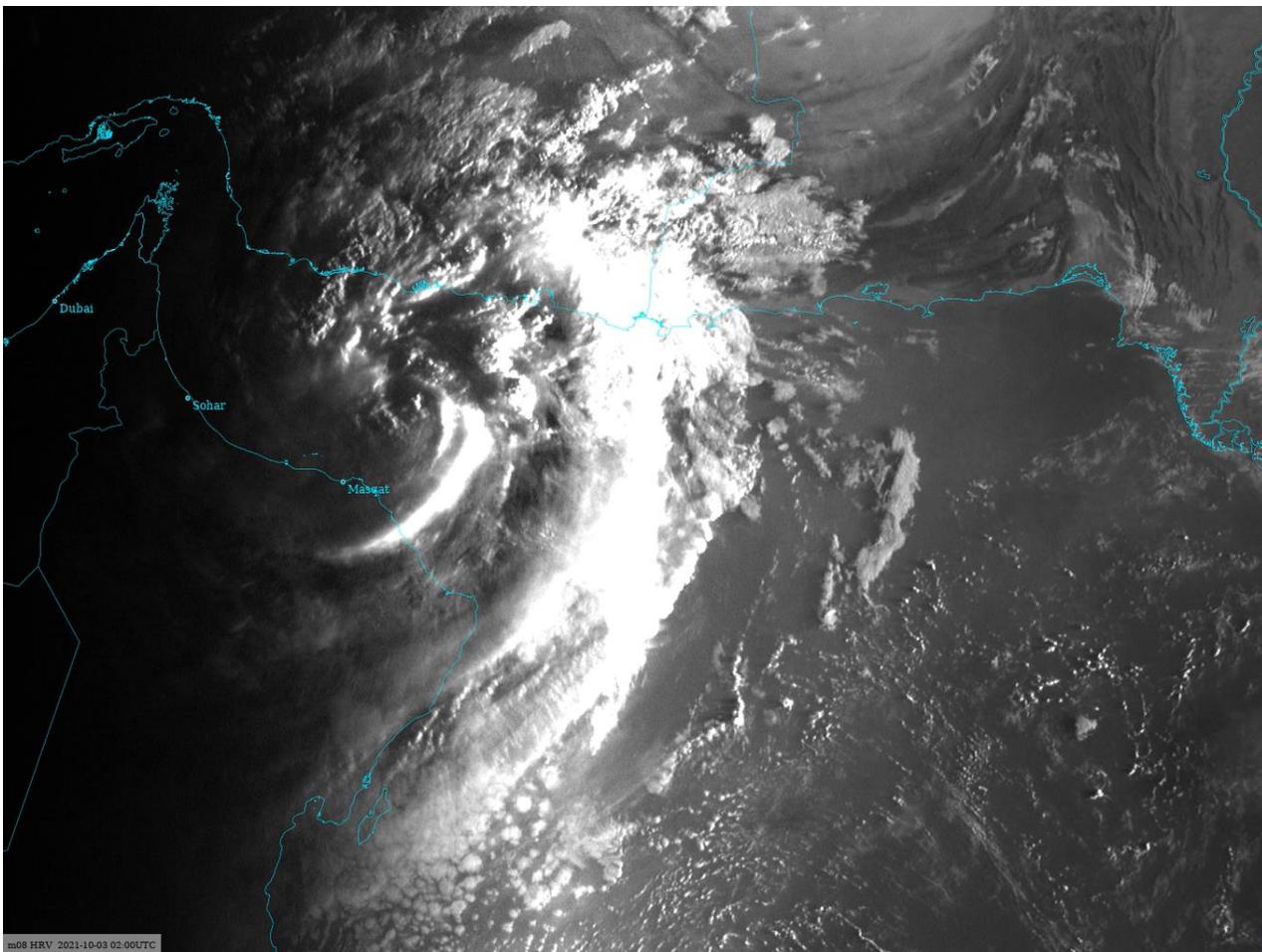
Tropical Cyclone By LEO Satellite Shaheen Tropical Cyclone (1- 4 Oct 2021)



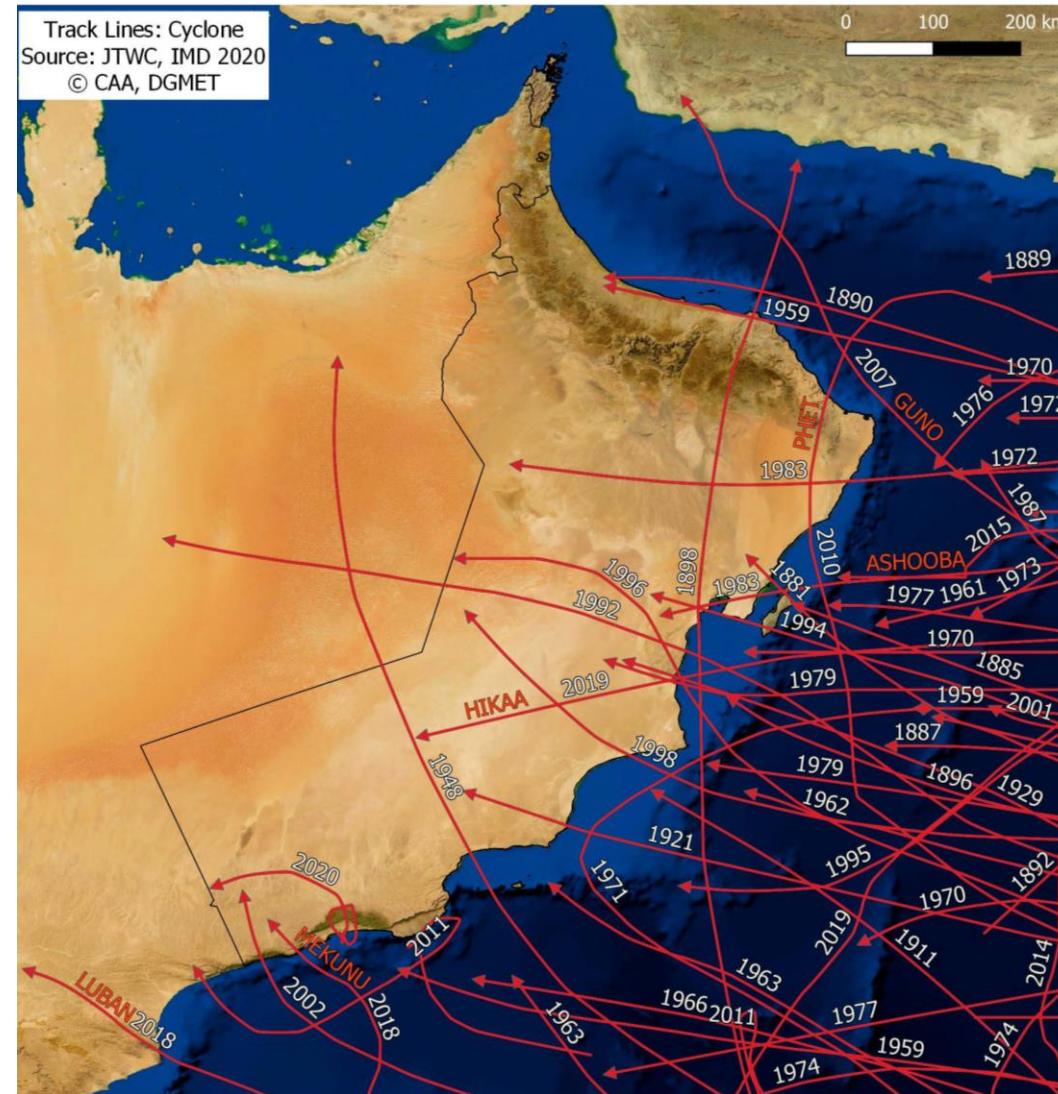
Zamzam AL-Rawahi



Source: Eumetsat



Meteosat-8 HRV, 3 October 02:00-13:30 UTC



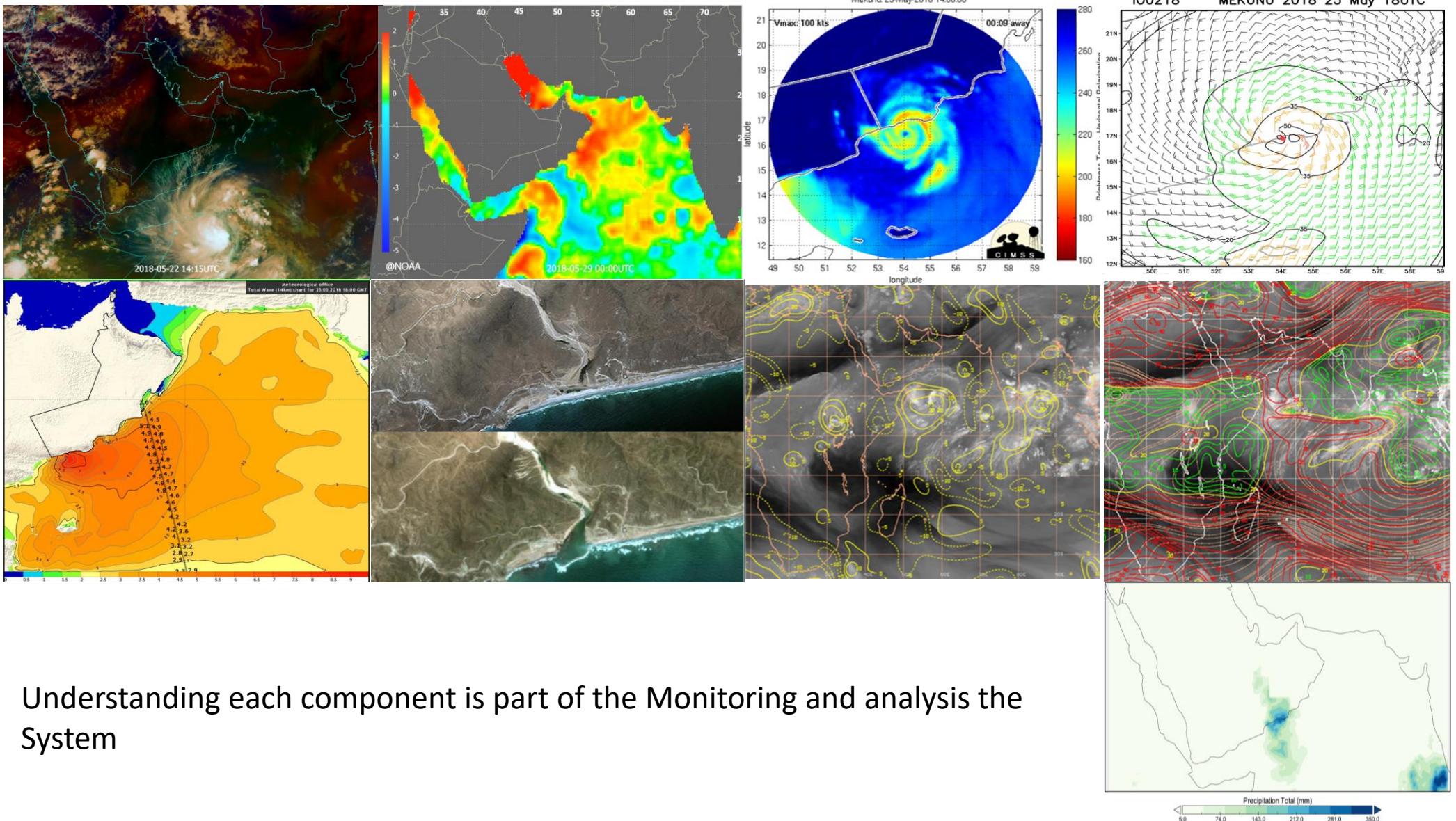
Damage



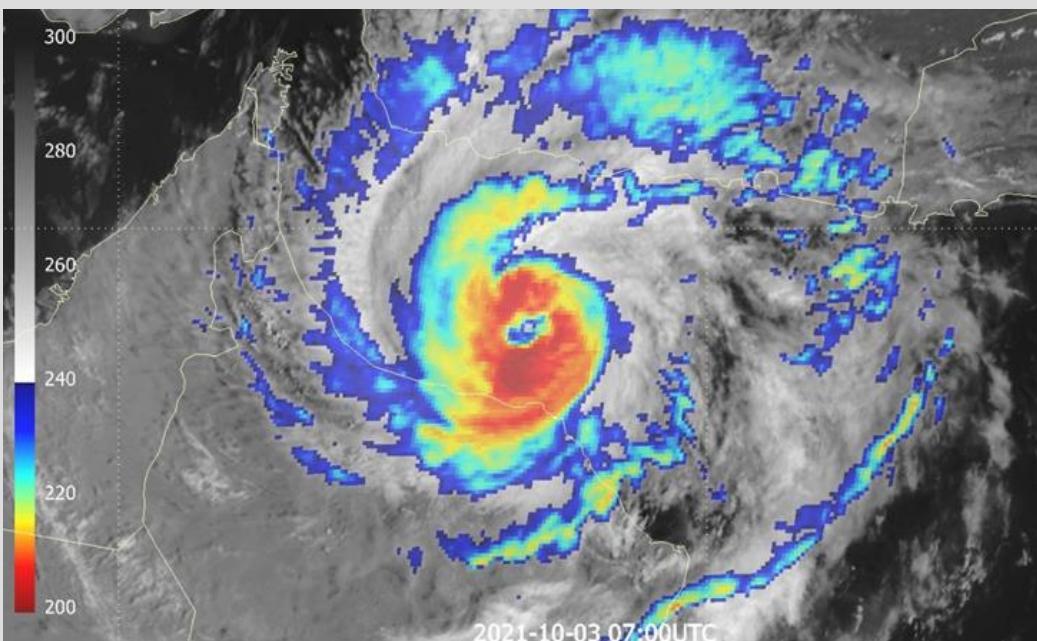
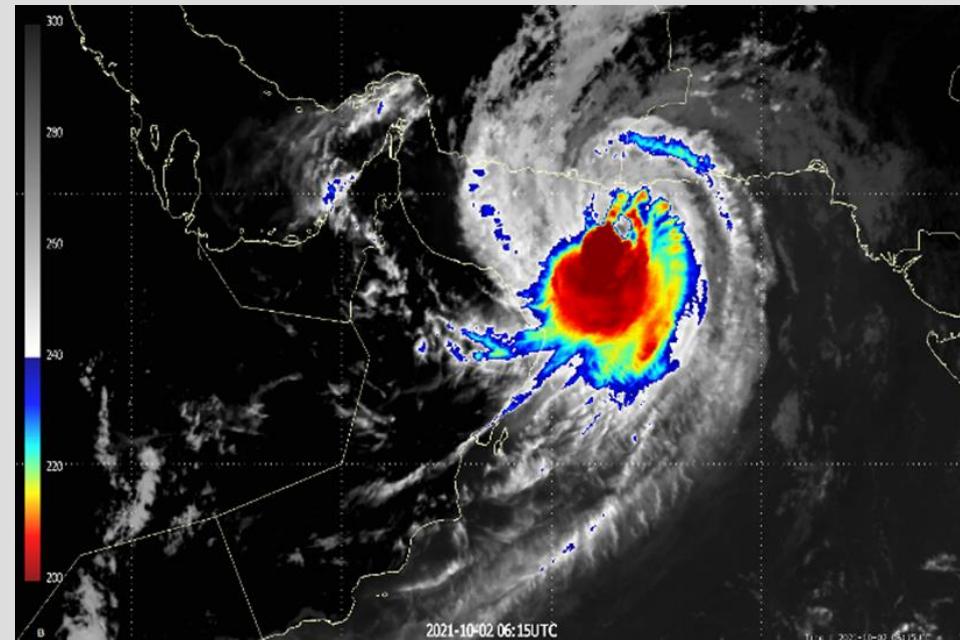
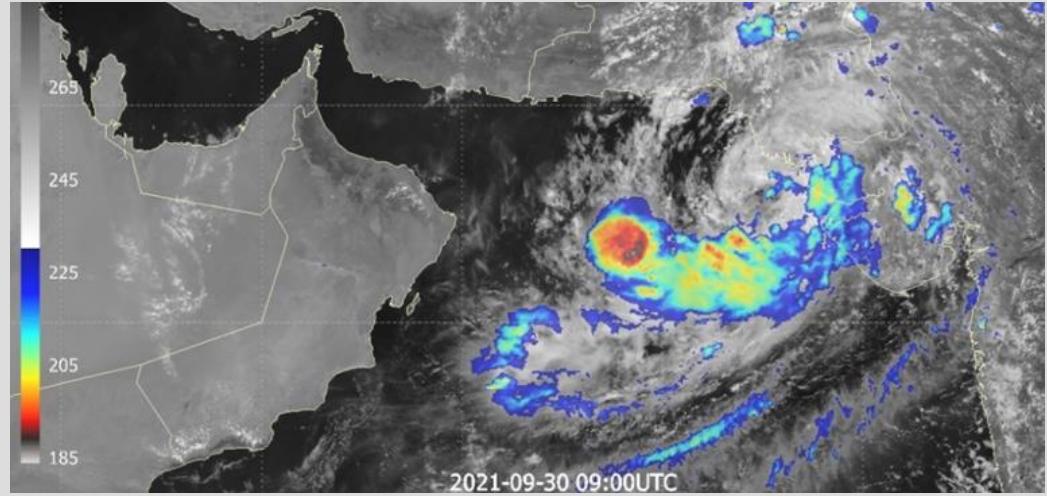
Flooded area of AlKhaburah - Wadi Shafan - North Al Batinah Governorate (Source: Photographer/ Bader Al Mamari)



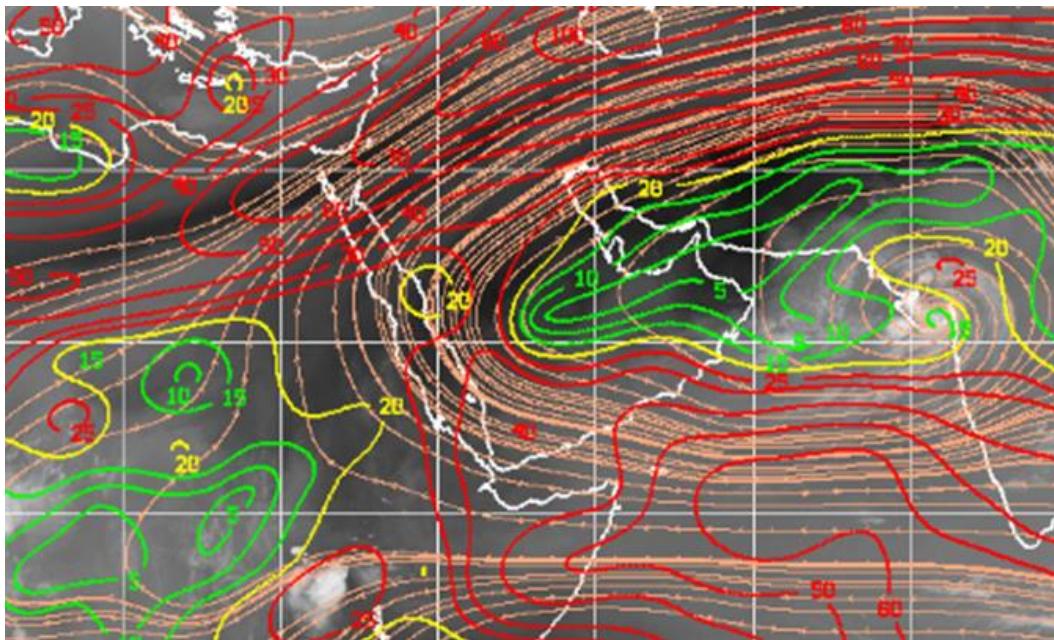
Monitoring, Analysis & Prediction of Tropical system



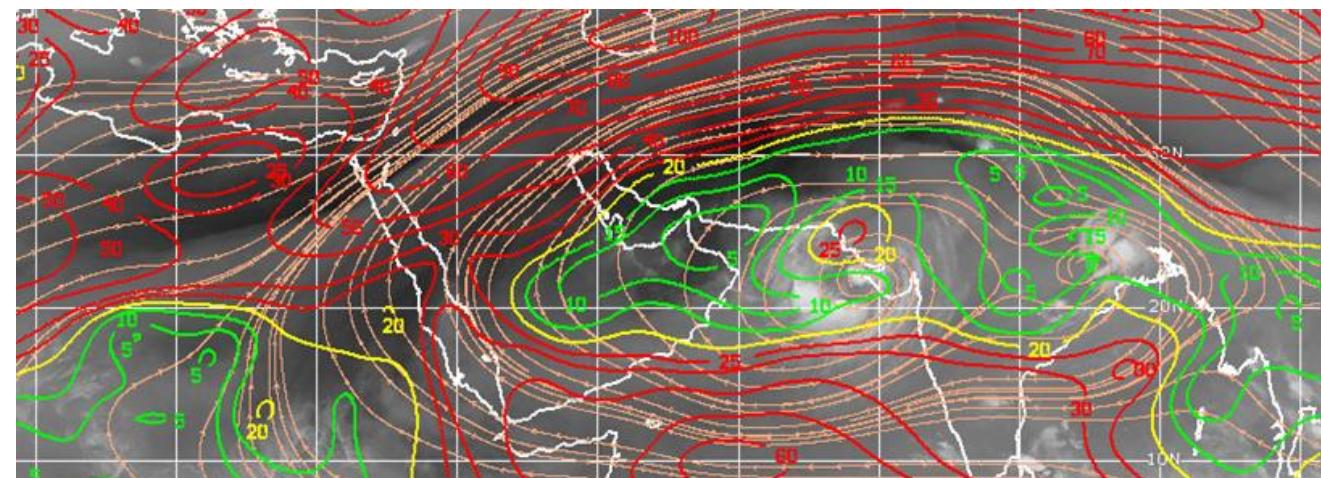
The Shape of the system



Low wind Shear

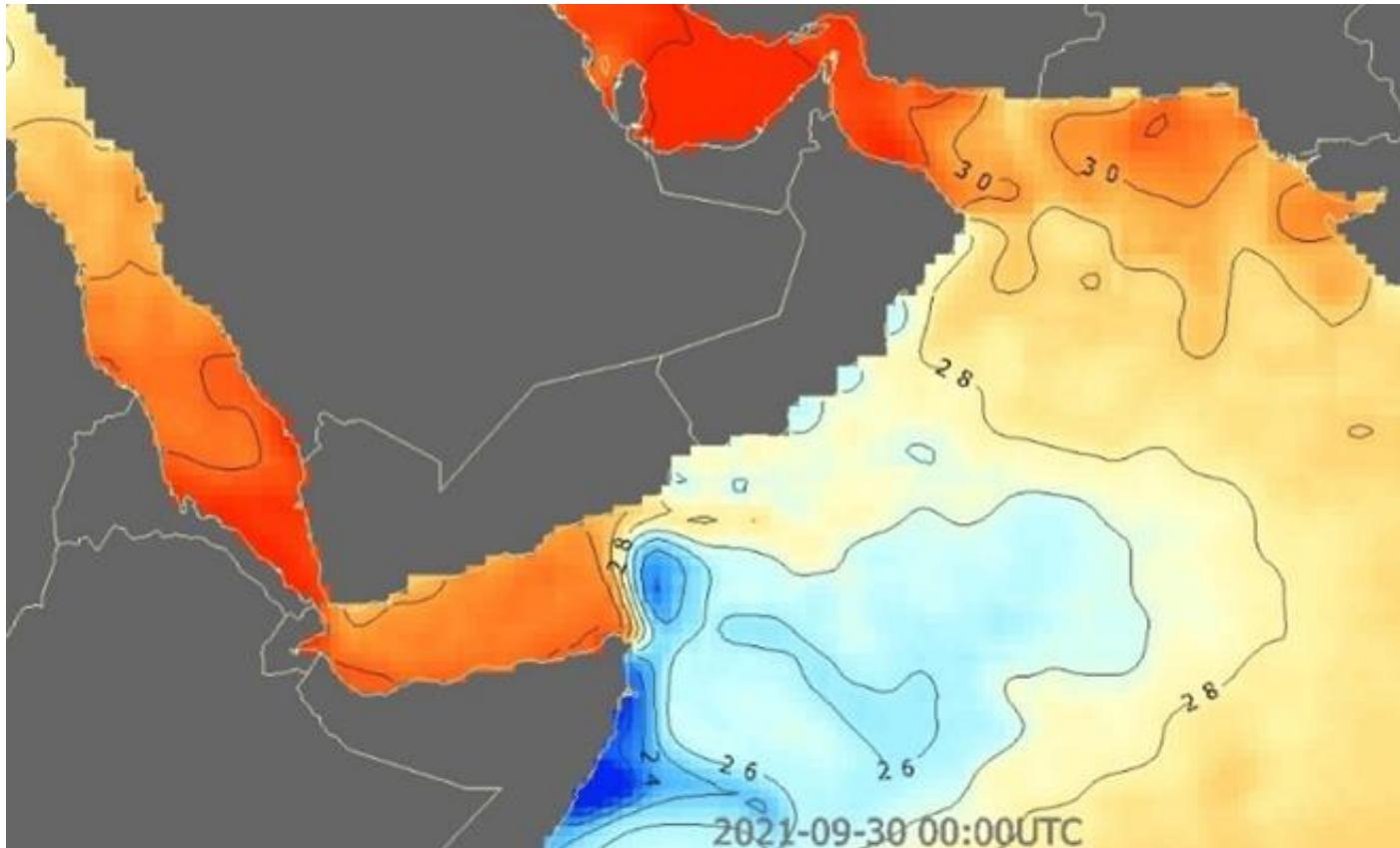


Meteosat-8 wind shear (kt) for 29.10.2021 12 UTC, (WISC-CIMSS, 2021).

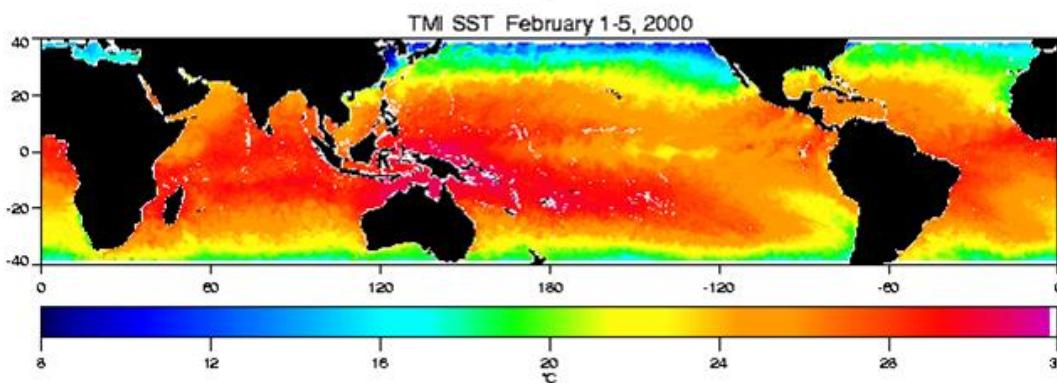
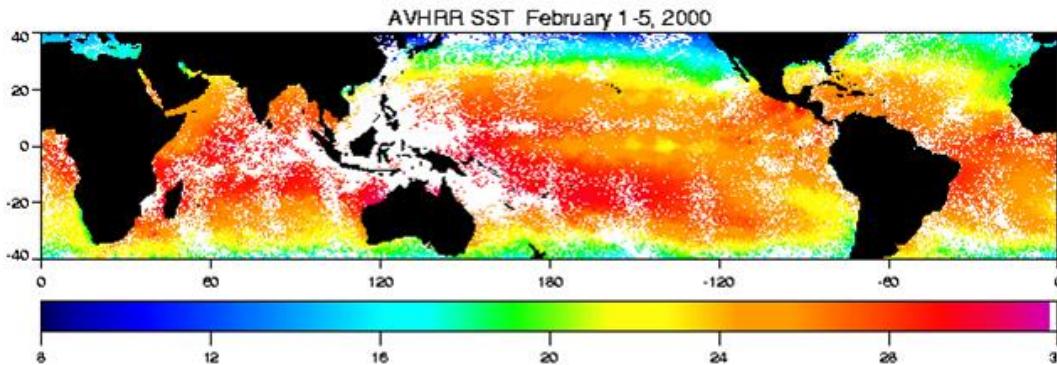


Meteosat-8 Wind Shear (Kt) for Sep 30 00 UTC. (WISC-CIMSS, 2021).

Sea surface Temperature



Sea surface Temperature



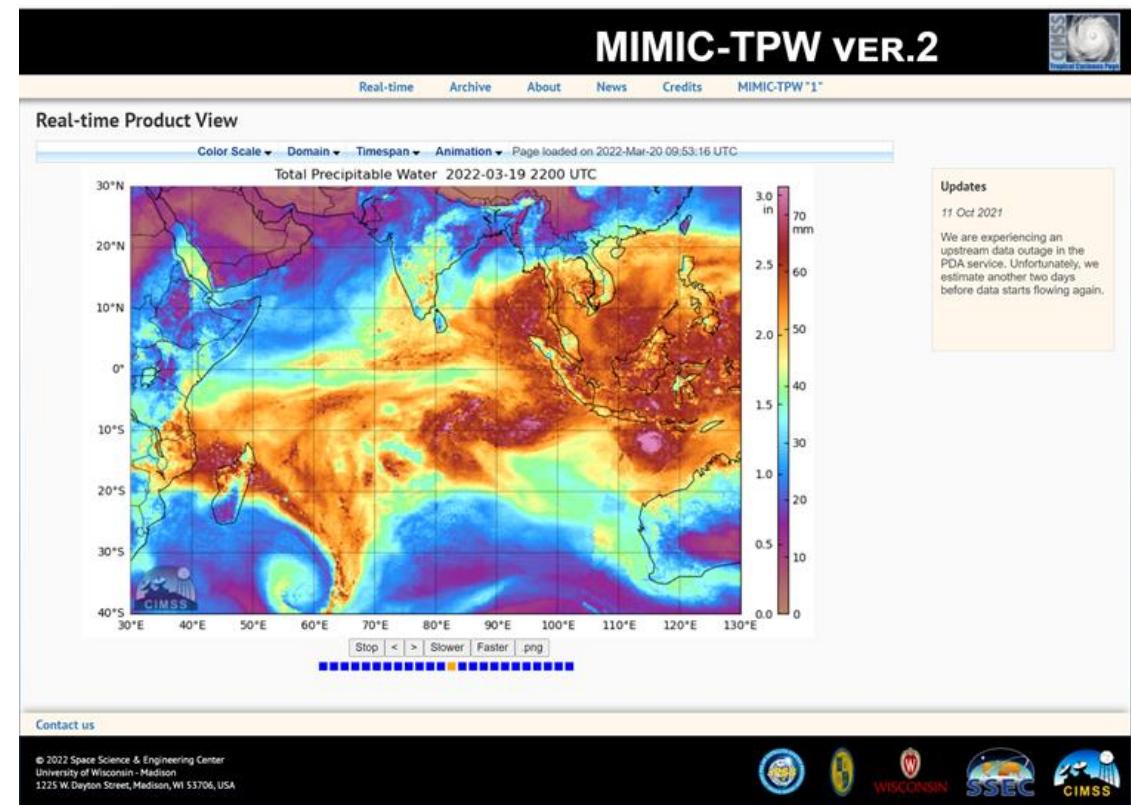
	IR	Microwave
Spatial resolution	250m - 4km	25km
Number of gaps in data	High, because clouds disable the retrieval	Low, because only sunglint, rain or proximity to land prevents the retrieval; microwaves penetrate the clouds.
Data longevity	Good heritage (observations began in the 1970s).	Available since 1998.

- SST from different satellites

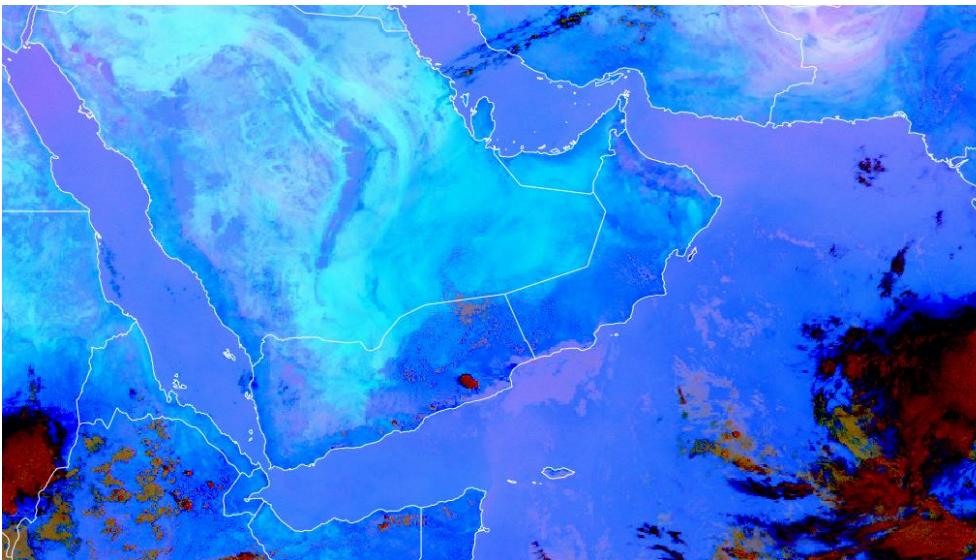
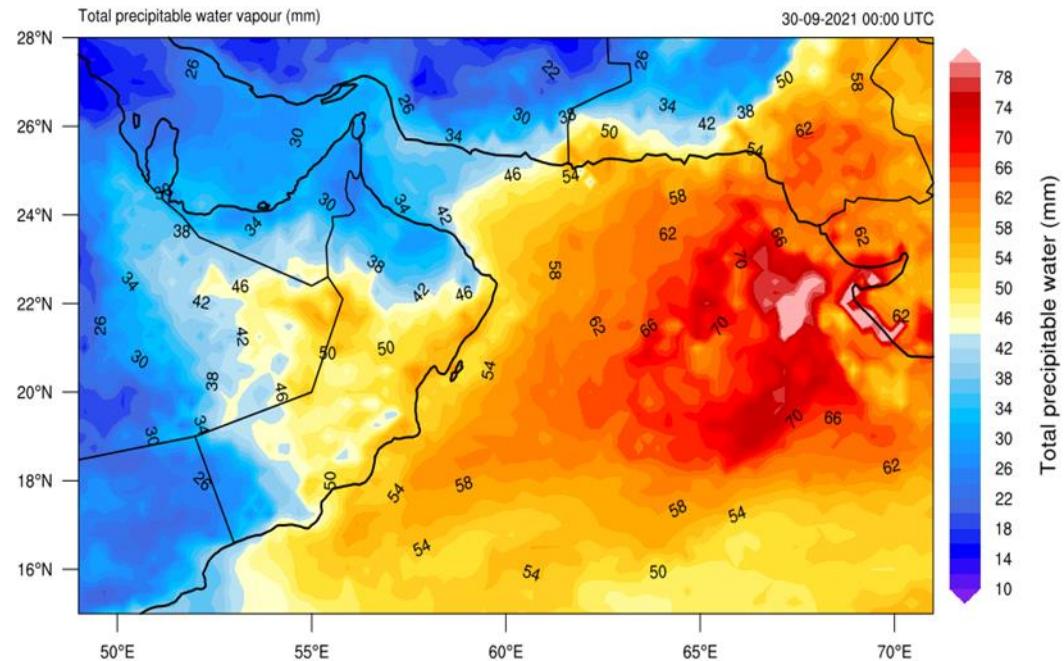
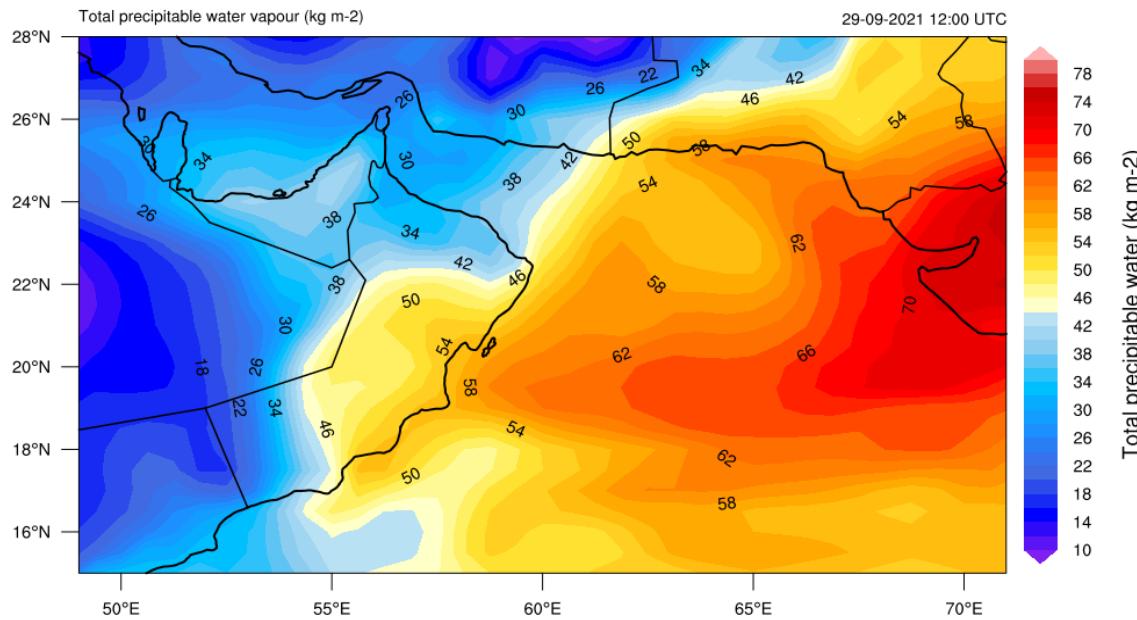
Total Precipitable Water

Estimating the amount of water vapour (water content) in the atmosphere

The composite product is made from retrievals using AMSU-B and MSU from NOAA-18, NOAA-19, Metop-A and Metop-B &ATMS from Suomi-NPP.

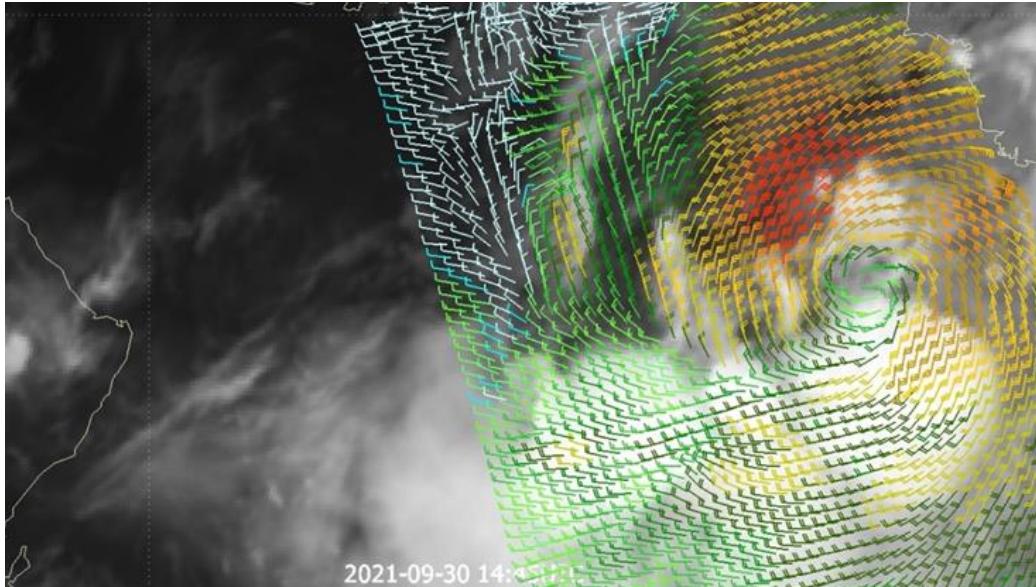


Total Precipitable Water

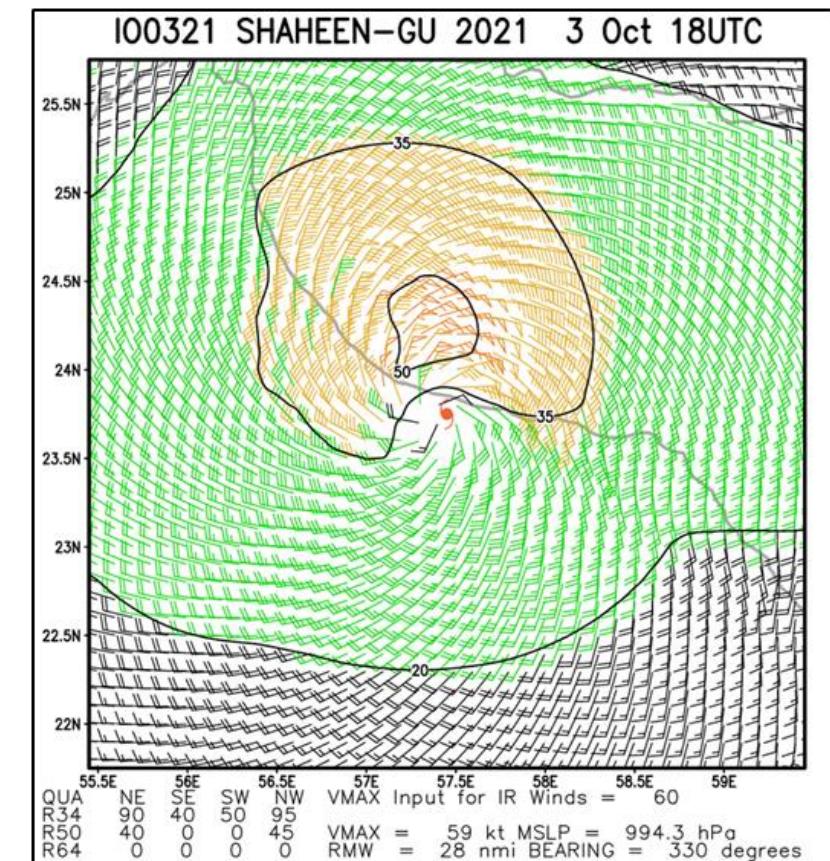


Wind Speed

Multi-Platform Tropical Cyclone Surface Winds Analysis (MTC-SWA)

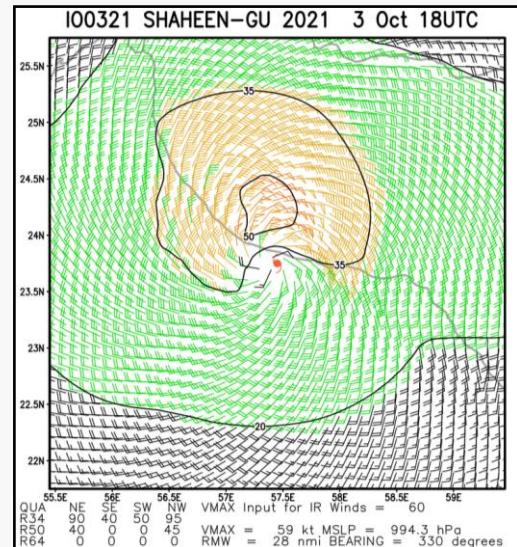
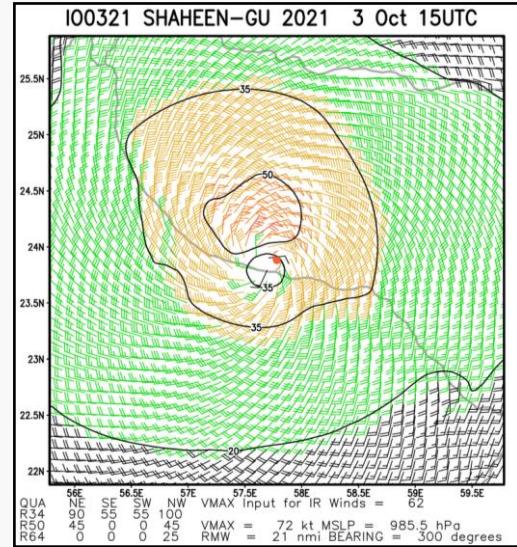
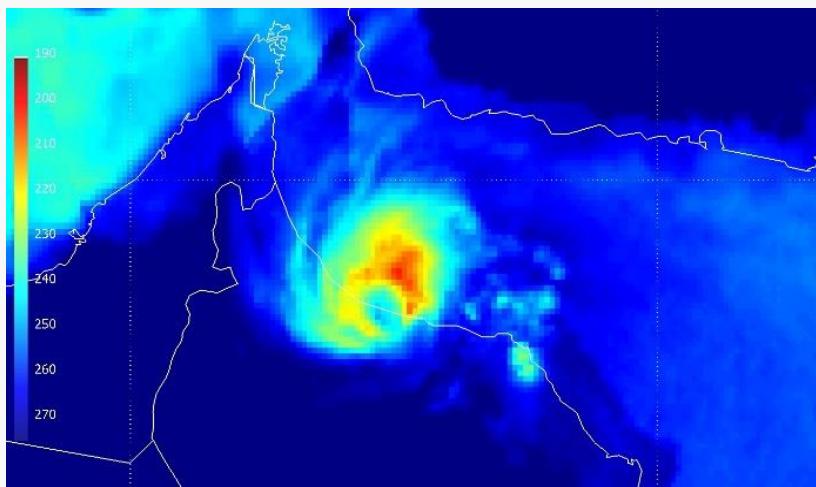
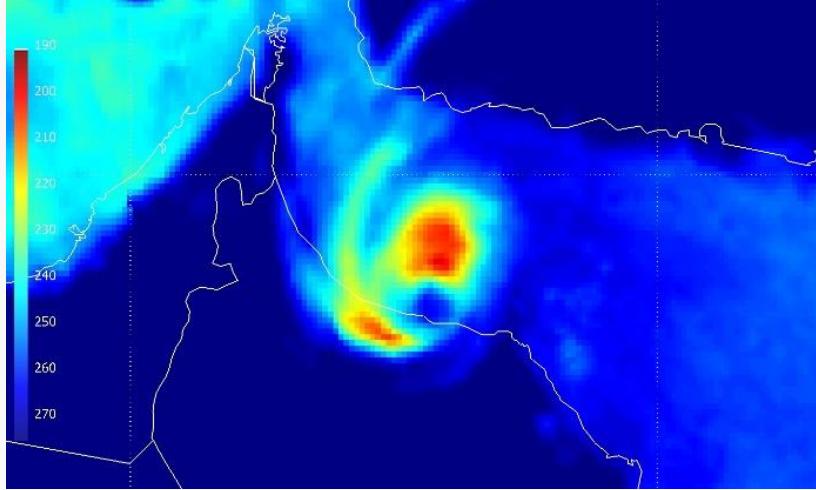


MetOP-A ASCAT pass from Sep 30 14:45 UTC overlaid on a Sep 30 14:45 UTC Meteosat-8
IR 10.8 μ m image



• ASCAT

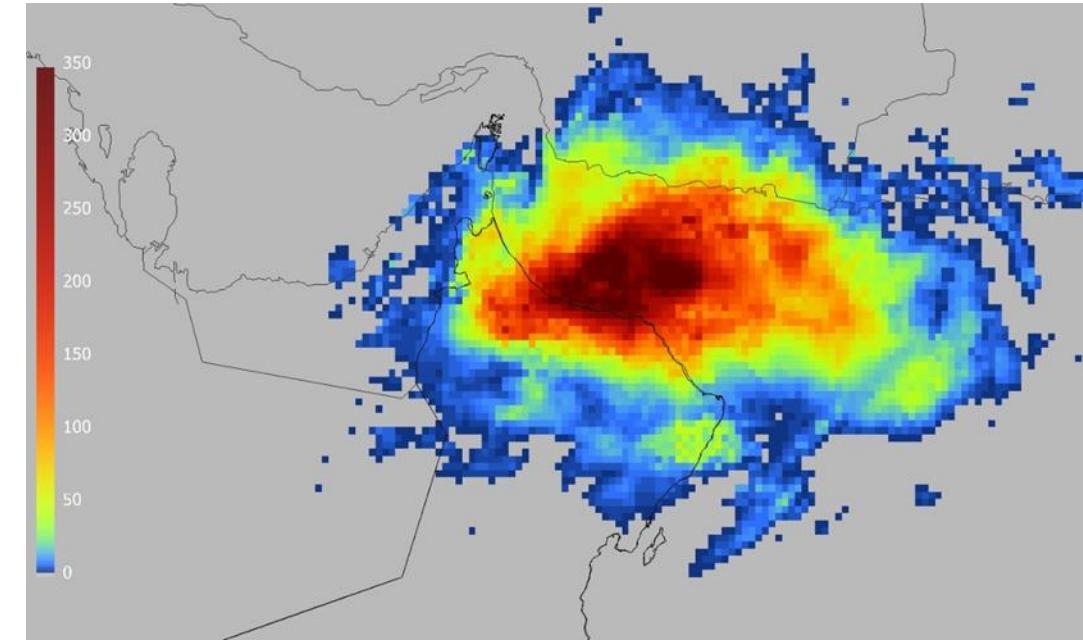
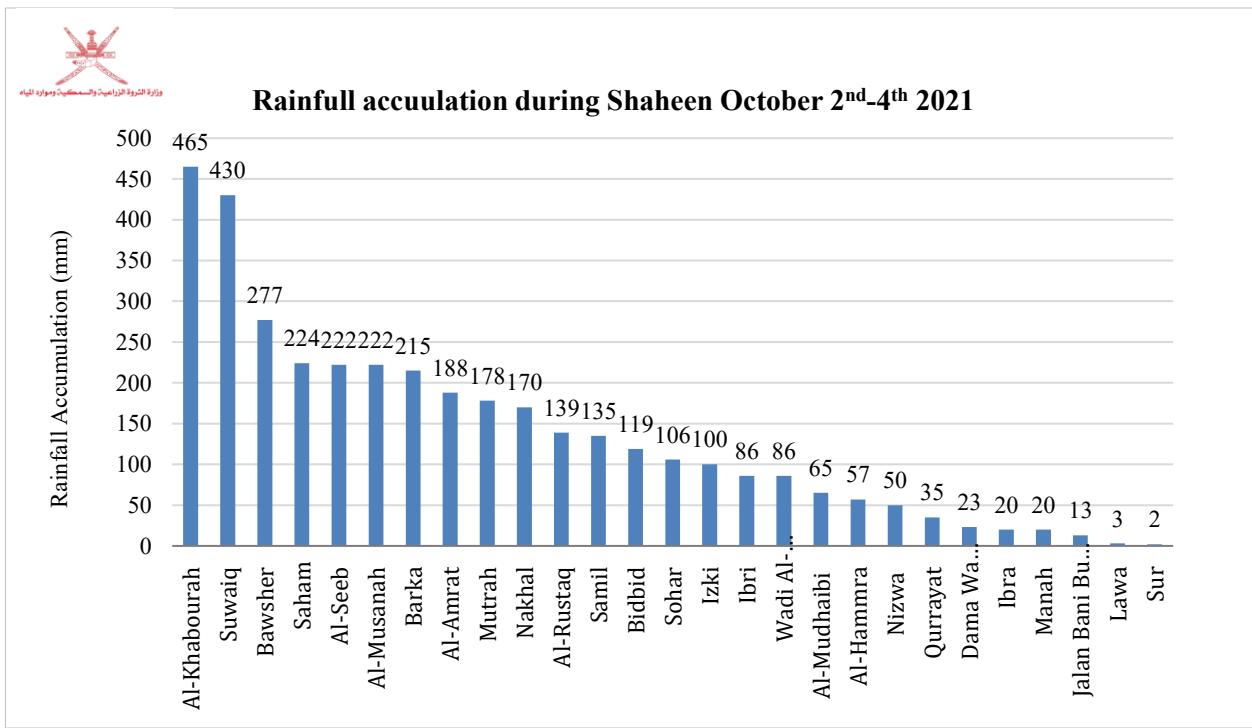
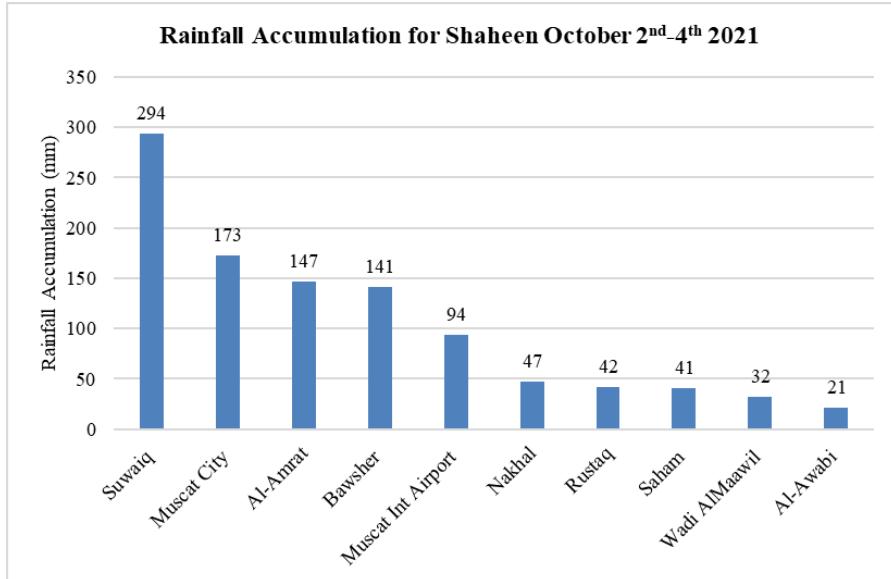
Landfall & Eye



Blend of tropical cyclone imagery from five low-Earth orbiting satellite instruments: the DMSP-13/14/15 SSM/I (85 GHz channel), the TRMM TMI (89 GHz channel) and the Aqua AMSR-E (85 GHz (A) channel).

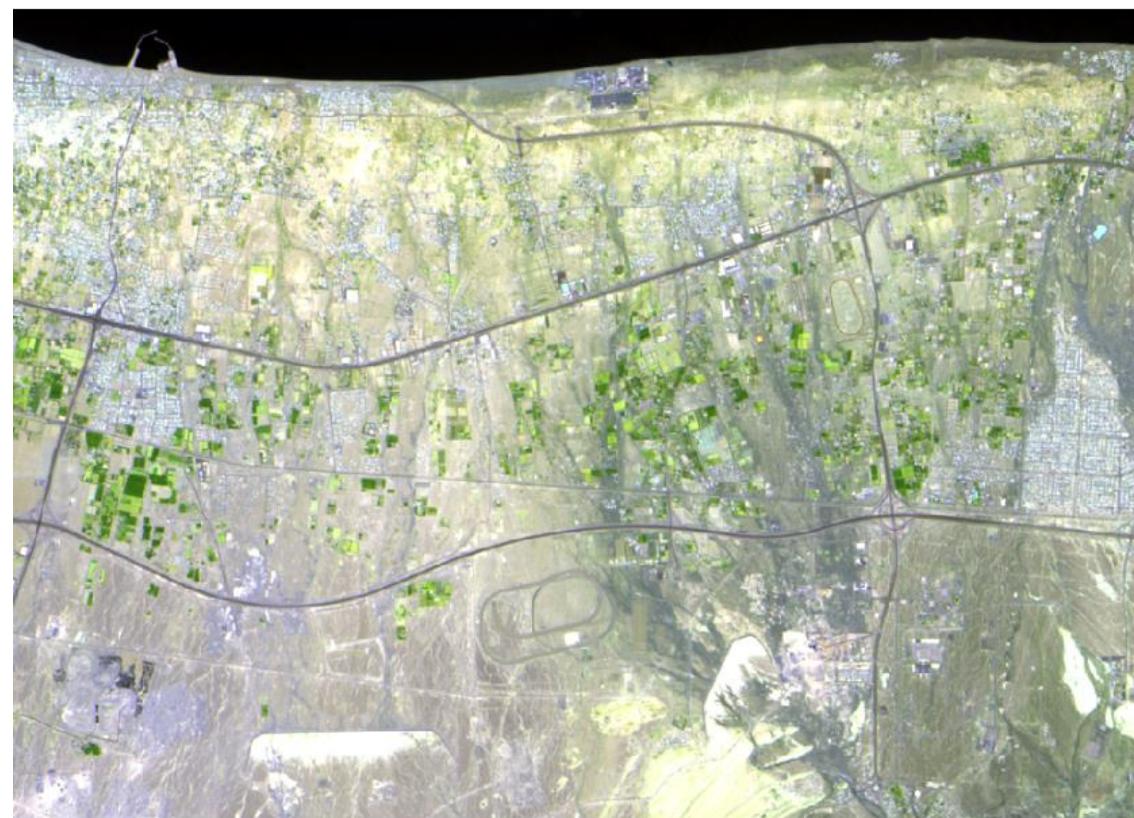
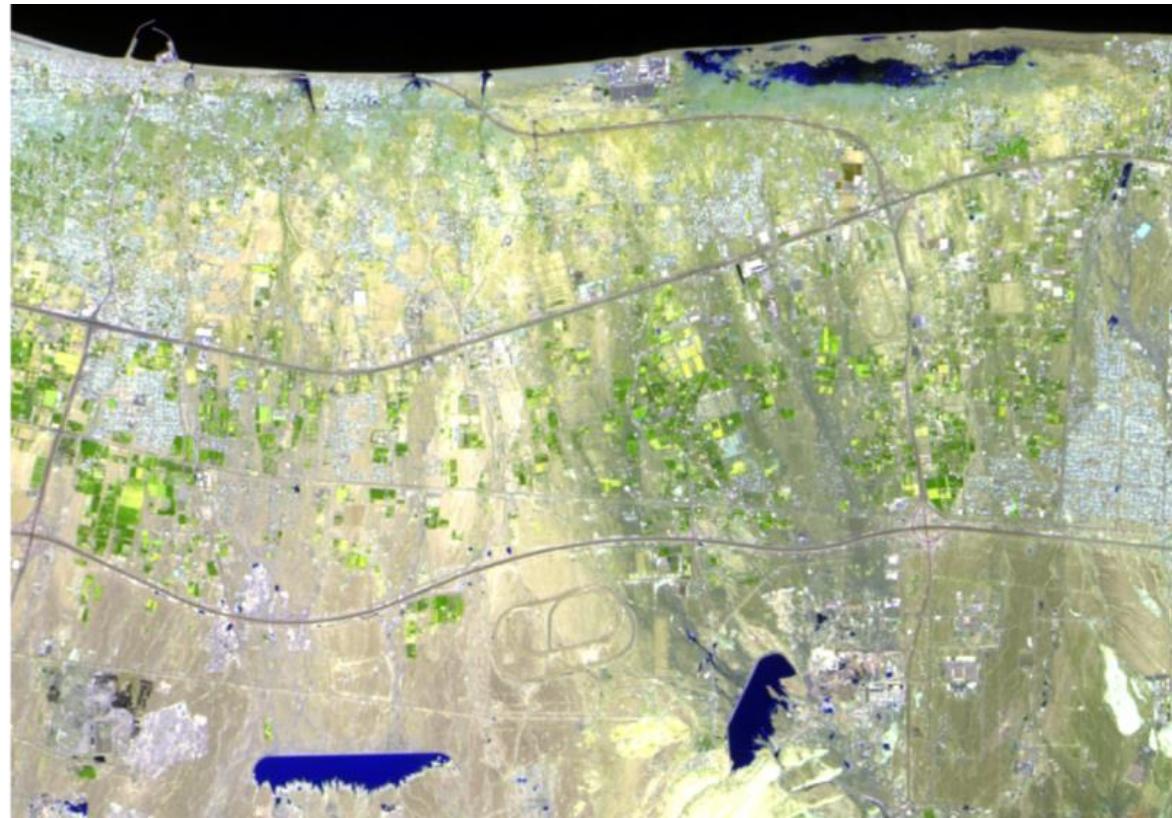
[MIMIC Data](#)

Precipitation



Multiplatform Satellite Accumulated rainfall for the period from 2nd to Oct 5, 2021, reprocessed

Flooding



Flooding

[EO Browser](#)



Thanks

