



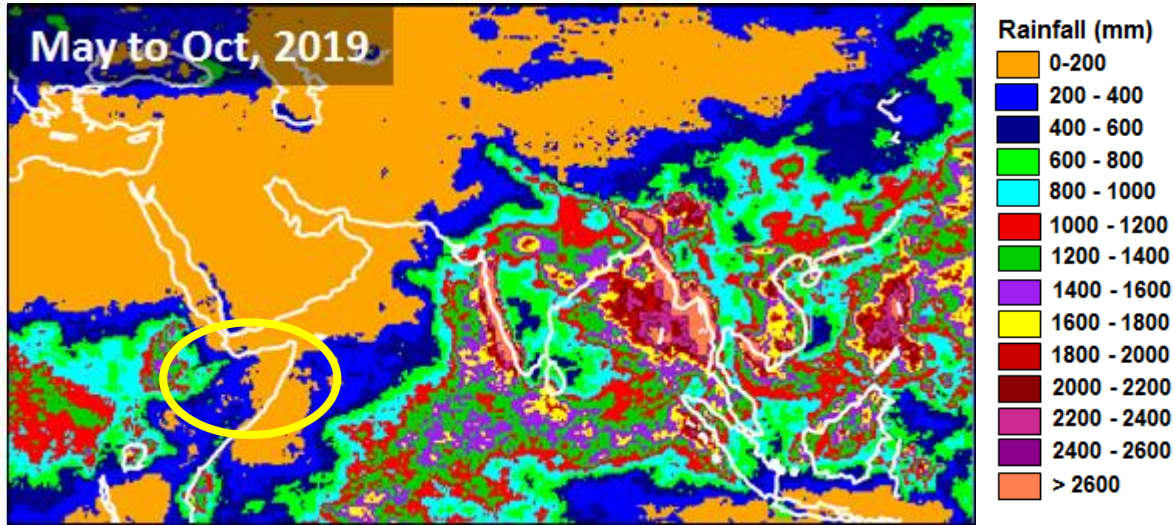
Space-based Assessment of Desert Locust Menace to Indian Summer Crops

Indian Space Research Organisation

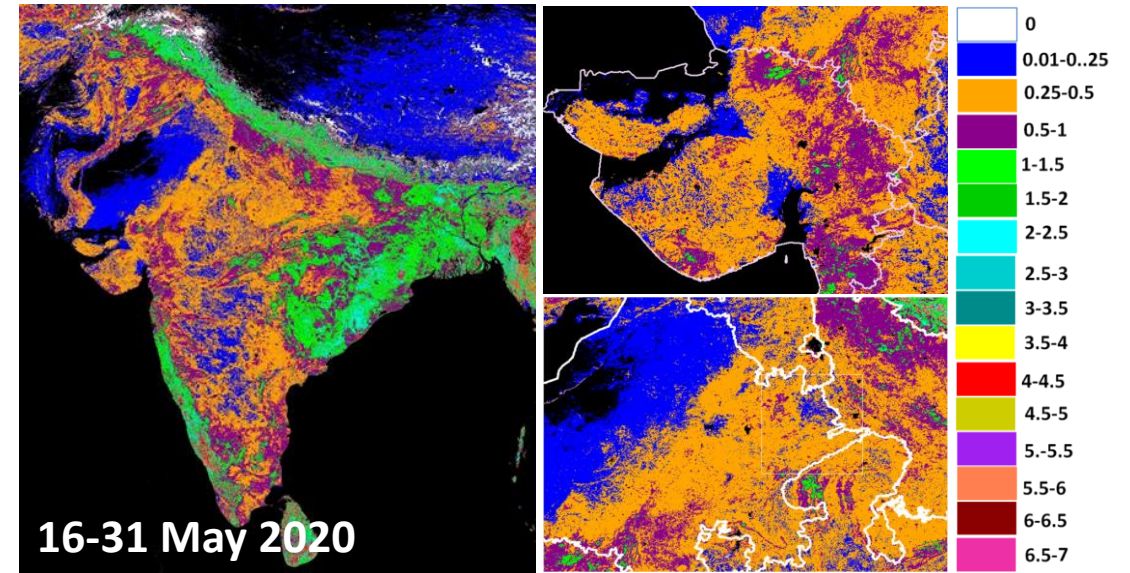
Webinar on space-based inputs for locust early warning and preparedness

Assessing Bio-meteorological factors for ecological suitability

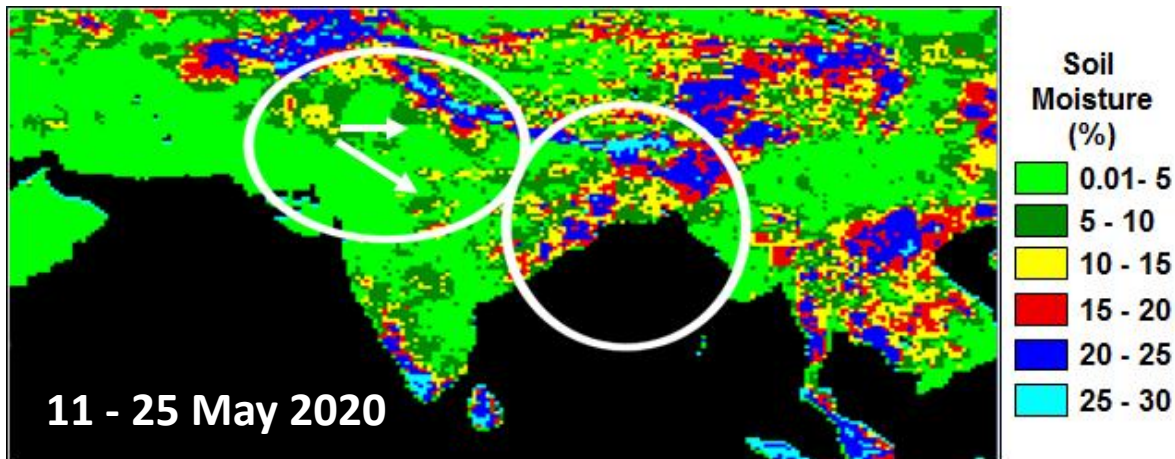
INSAT 3D HE rainfall (Source : mosdac.gov.in)



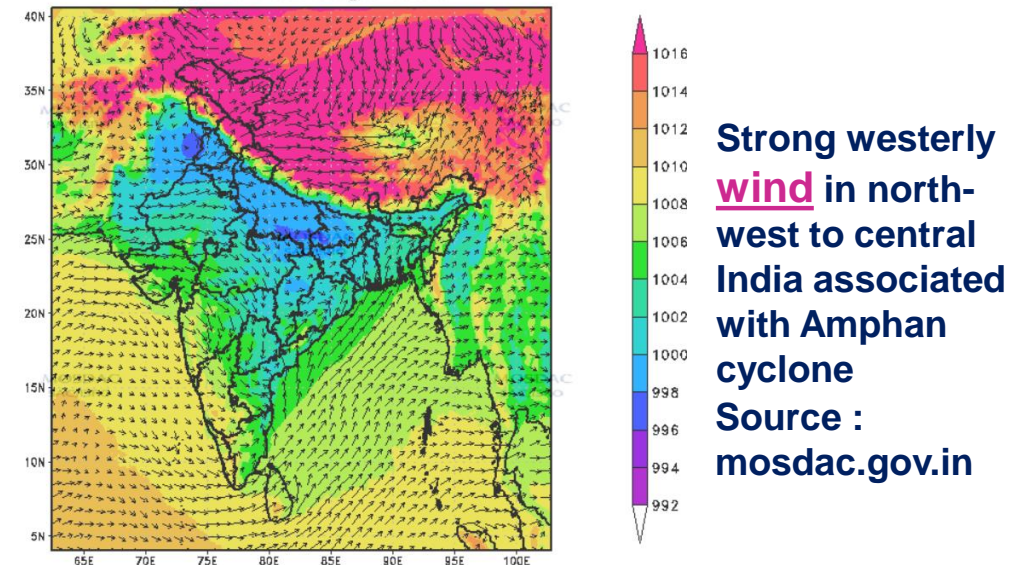
Green vegetation from satellite based Leaf Area Index (LAI)
(Data: MODIS)



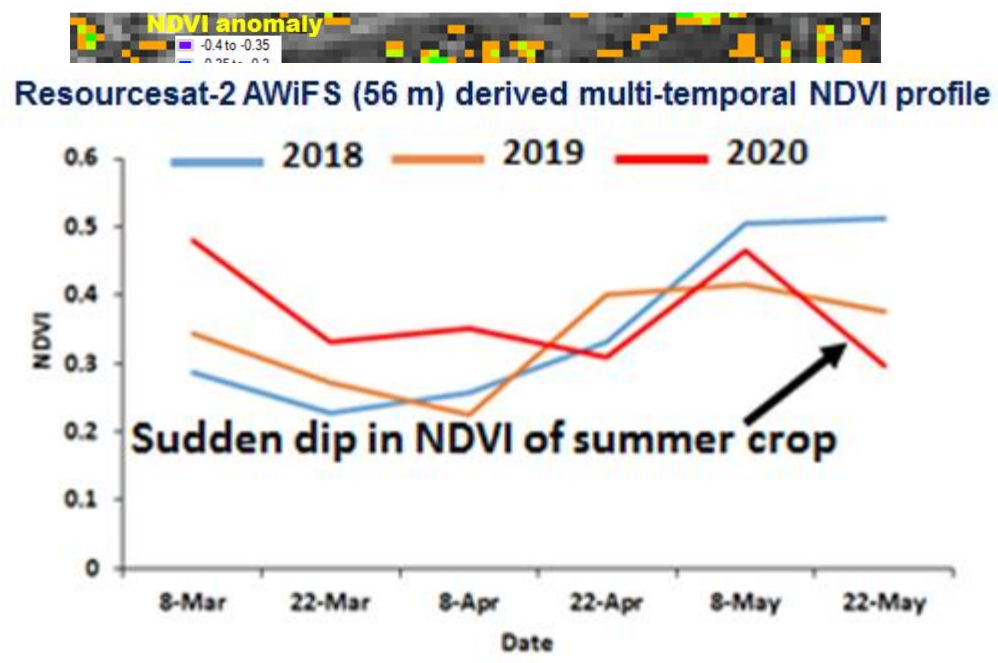
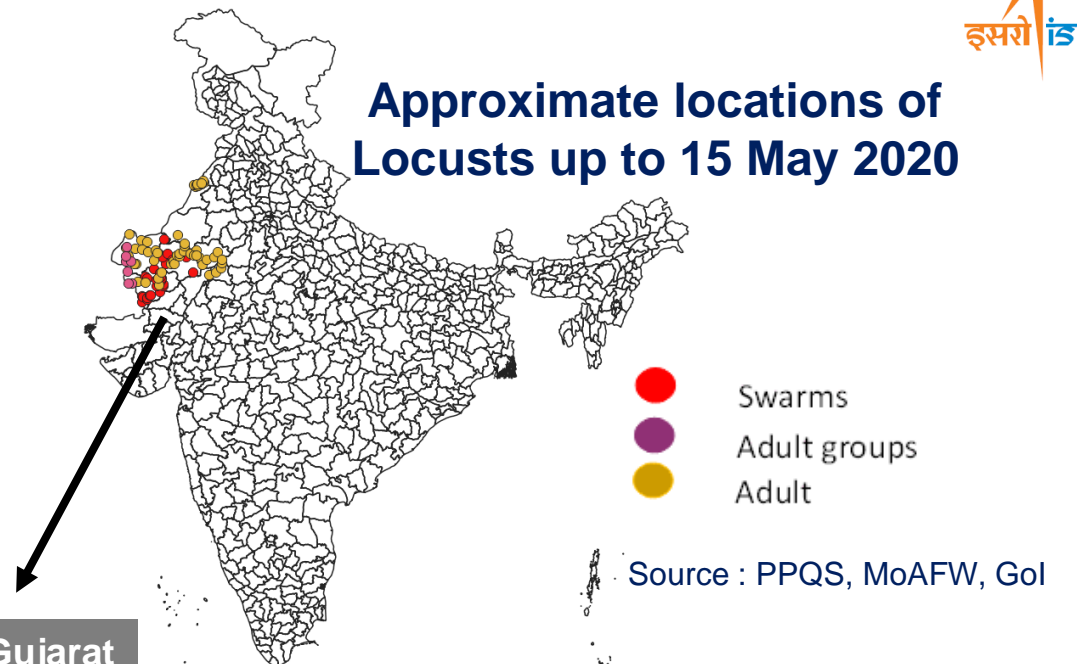
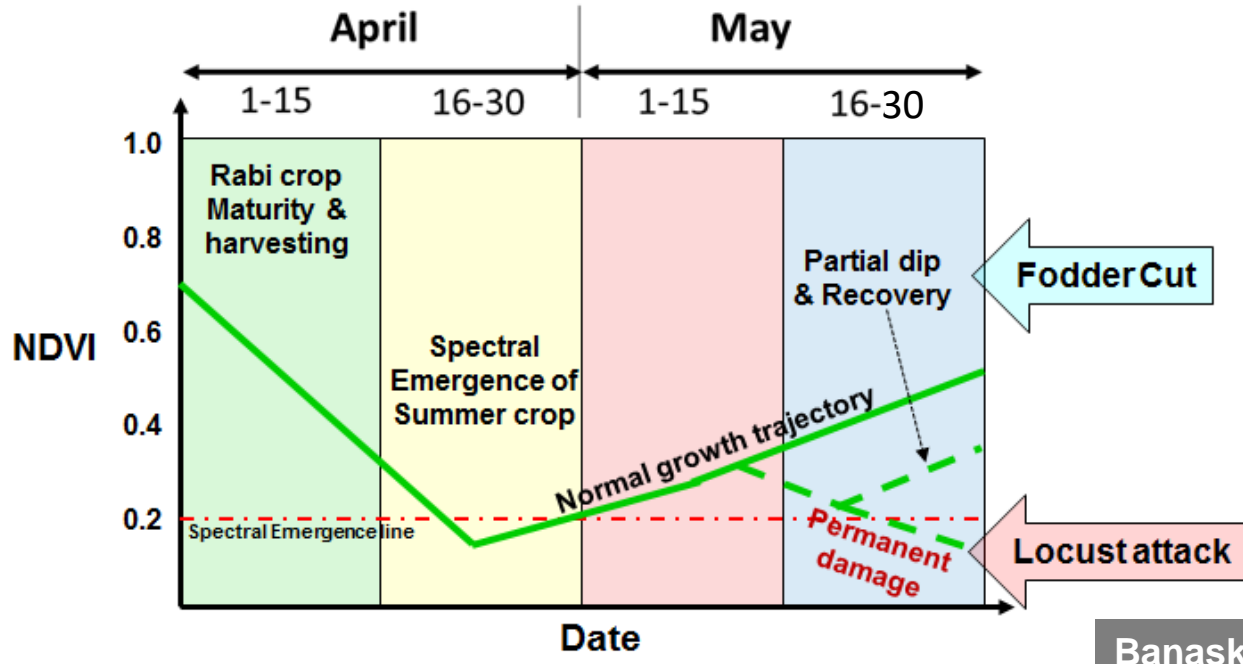
Surface soil moisture from L-band microwave radiometer
(Data: SMAP)



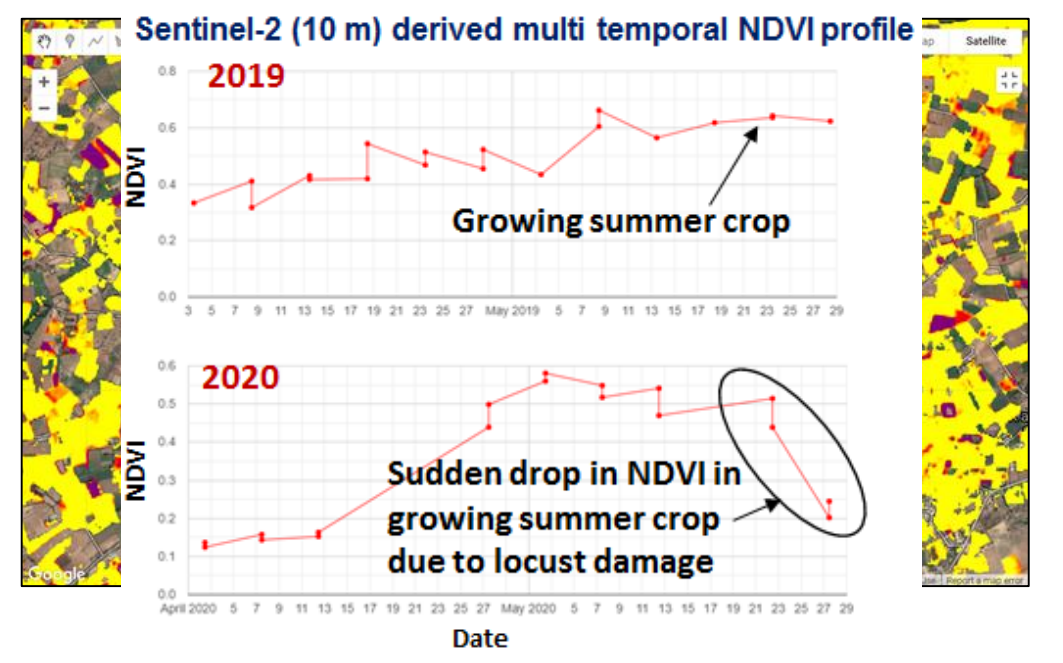
30hr Forecast valid for 1130 IST 23MAY2020
MSLP & 10m height Wind



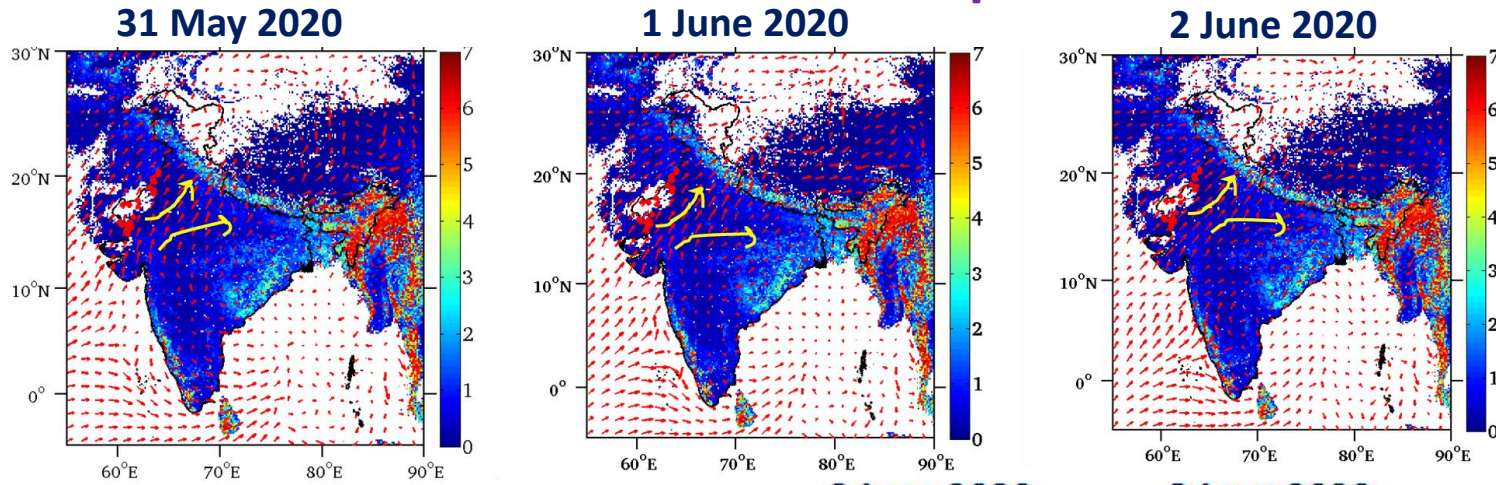
Automatic detection of crop damage through VEDAS & Google Earth Engine



Damage detection from NDVI anomaly in 2nd fortnight of May 2020



Heuristic prediction of Locust migration



Mosaics of green vegetation from LAI product and short-range WRF wind forecasts up to 2nd June 2020

Mosaic of green vegetation from LAI product and wind forecast up to 11 June 2020 by Unified Model NCMRWF, MoES

www.mosdac.gov.in
www.vedas.sac.gov.in

... Thank you



After West-East surge, locust swarms will possibly move back towards Thar desert in Rajasthan due to south-westerly wind associated with cyclone 'Nisarga' in the Arabian sea and easterly wind from BoB due to south-west monsoon circulation