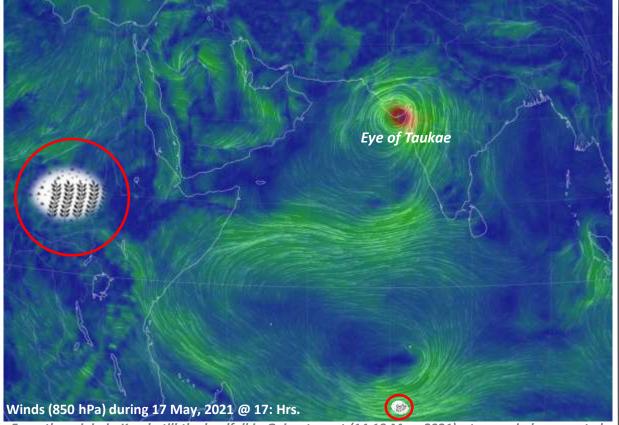
Locust Surveillance Using Geospatial Technology



nrsc

No. 2021/22 Period: 01-31 May.



From the origin in Kerala till the landfall in Gujarat coast (14-19 May, 2021), strong winds generated by Tauktae cyclone circulation doesn't covered the interior parts of Ethiopia and Somalia where mature swarm persists. Last year, Amphan cyclone (15-21 May, 2020) has dragged the existing swarms from Iran and Pakistan border to the Thar desert region due its circulatory winds.

Image courtesy: earth.nullschool.net

Contents

- Locust Update by FAO & LWO
- False Color Composite (FCC) and NDVI
- Land Surface Temperature
- Leaf Area Index (LAI)
- Wind Vectors
- Surface Soil Moisture Map

Please send your feedback to rrsc w@nrsc.gov.in or ssrao@nrsc.gov.in



Locust Surveillance Using Geospatial Technology Bulletin is issued by Regional Remote Sensing Centre (West), NRSC/ISRO – Jodhpur. RRSC-W continuously monitors the weather and ecology to provide early warning based on survey and control results from Locust Warning Organisation (LWO), Jodhpur combined with remote sensing inputs.

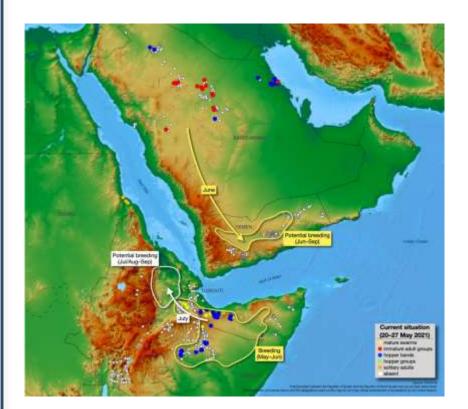
Locust Update by Food and Agriculture Organisation, UN.

Locust Update by Locust Warning Organisation, India.

Status & Forecast

Locusts are currently active in the Horn of Africa and Saudi Arabia.

- Ethiopia More hatching and band formation is taking place. Mature swarms persist south of Djibouti in Siti zone where hatching and band formation are imminent.
- **Somalia** Hatching continues and more bands are forming on the escarpment and plateau in the northwest (Somaliland) where mature swarms are still laying eggs
- Saudi Arabia Control operations continue against a few early instar hopper bands . A few immature adult groups appeared in the Asir Mountains
- Yemen Scattered adults in the interior areas of Shabwah and Hadhramaut
- Sudan Locusts declined on the Red Sea coast
- Iraq Control operations ended against hopper groups in the upper Euphrates Valley
- Iran A few early instar hopper groups remain on the southwest coast near Bushehr



Status & Forecast

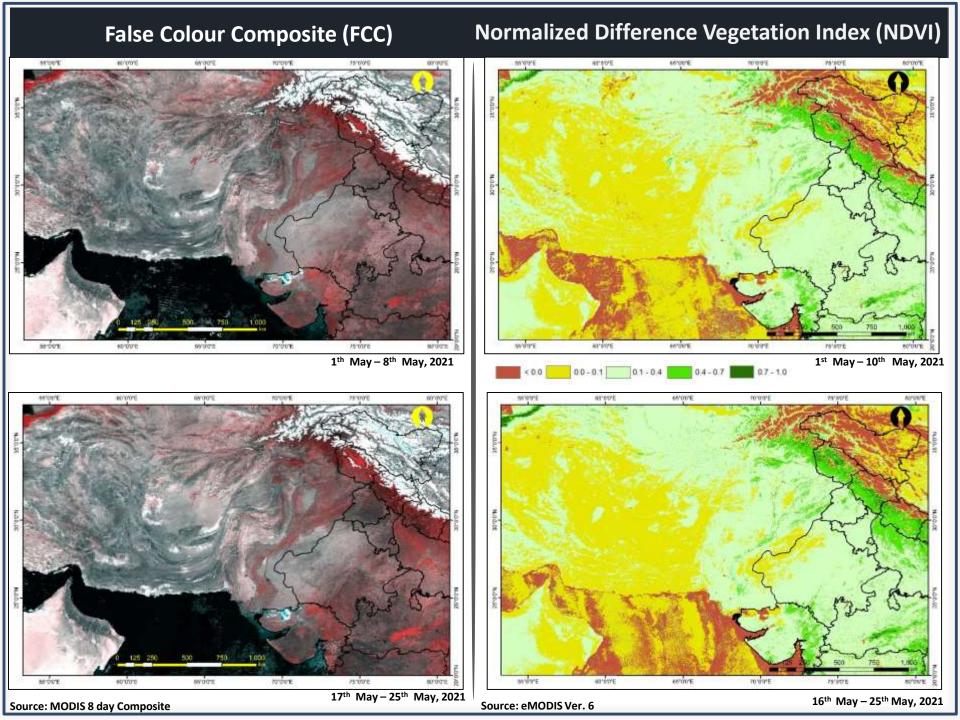
During the routine survey, it has been observed that India is free from gregarious as well as solitary desert locust activities during the 1st fortnight of May, 2021. Total 80 nos. of spots were observed during the surveys which are plotted on the map.

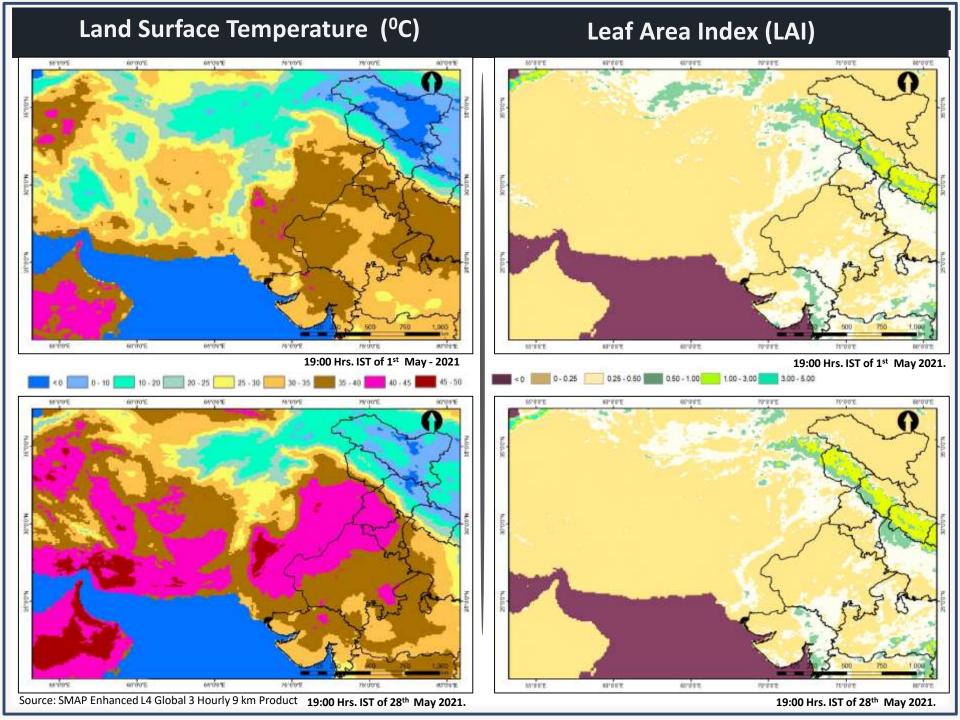
However, Locust alert warning has been issued in Jaisalmer district by Rajasthan Govt. following the advisory of FAO.



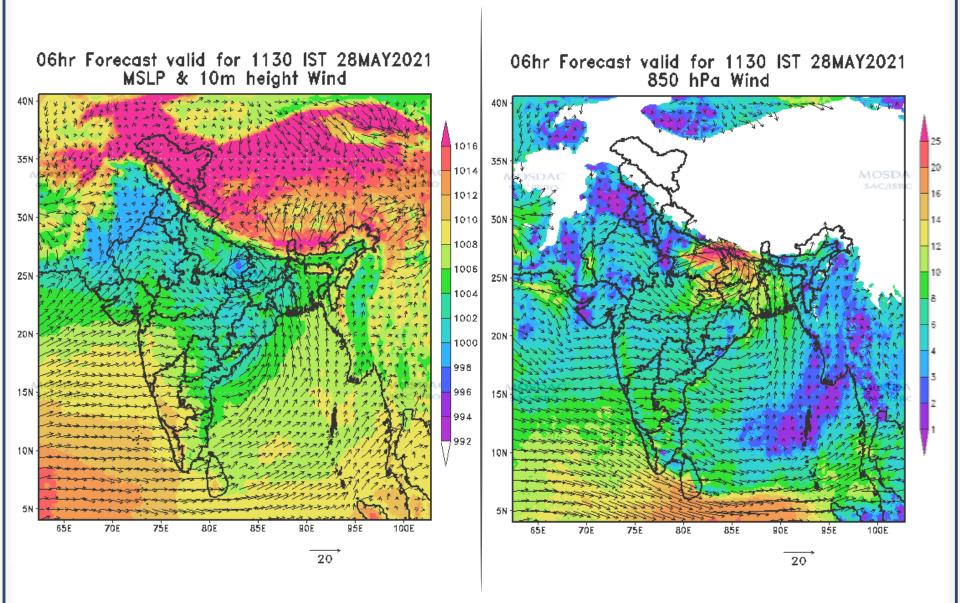
Source: Desert Locust Global Situation update 27th May 2021 by Food and Agriculture Organisation, UN.

Source: Desert Locust Situation Bulletin. 01-15 April 2021, LWO, Min. of Agriculture, Farmer's Welfare





Wind Vectors



Source: MOSDAC web portal

Wind speed @ 1.46 km from msl.

