

Locust Surveillance Using Geospatial Technology



nrsc

No. 2021/21
Period: 01-30 April.



Image courtesy: National Geographic

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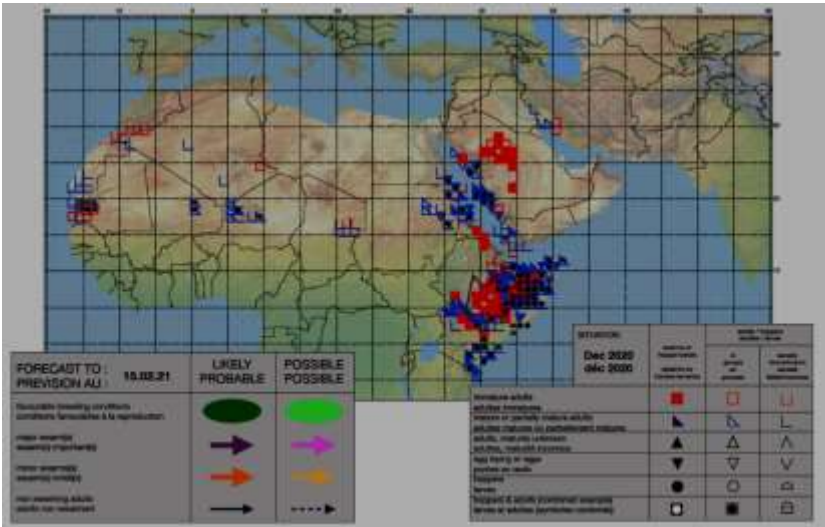
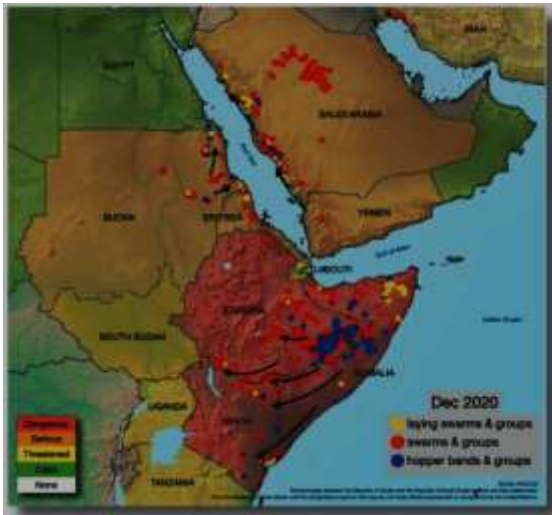
Locust Surveillance Using Geospatial Technology Bulletin is issued by Regional Remote Sensing Centre (West), NRSC/ISRO – Jodhpur. RRSC-W continuously monitors the weather and ecology to provide early warning based on survey and control results from Locust Warning Organisation (LWO), Jodhpur combined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

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

Status & Forecast

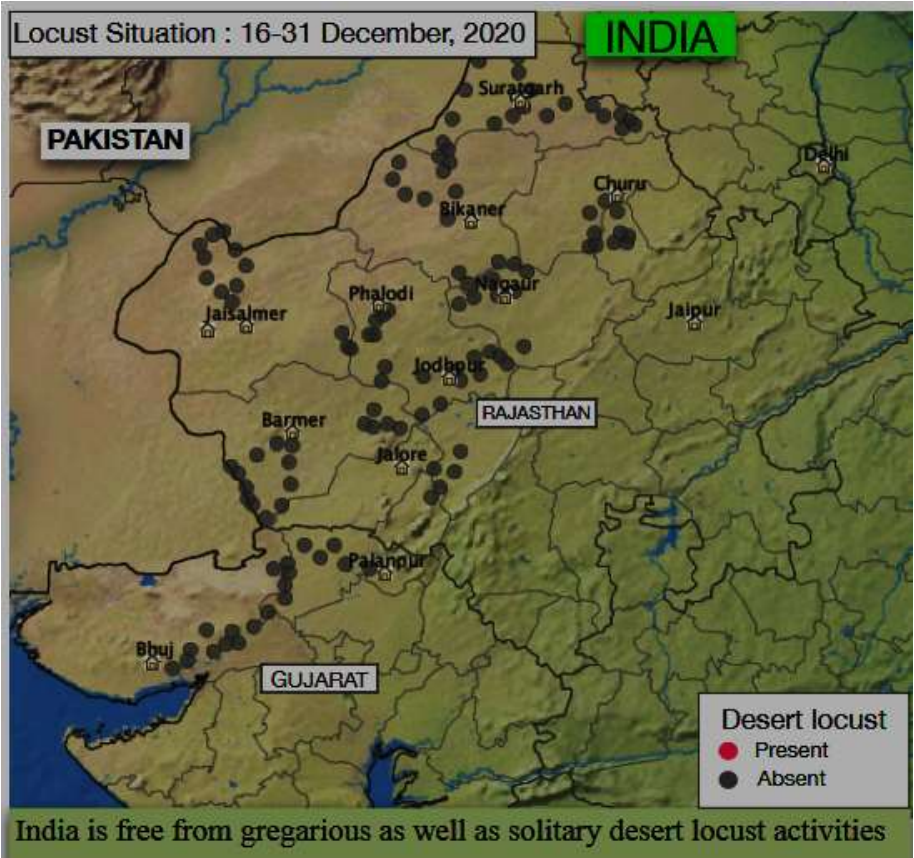
Status: Adults groups persists on southwest coast of Iran.

Forecast: Eventual breeding and hopper bands likely on southwest coast of Iran; low numbers prevail in southwest Iran and southwest Pakistan.



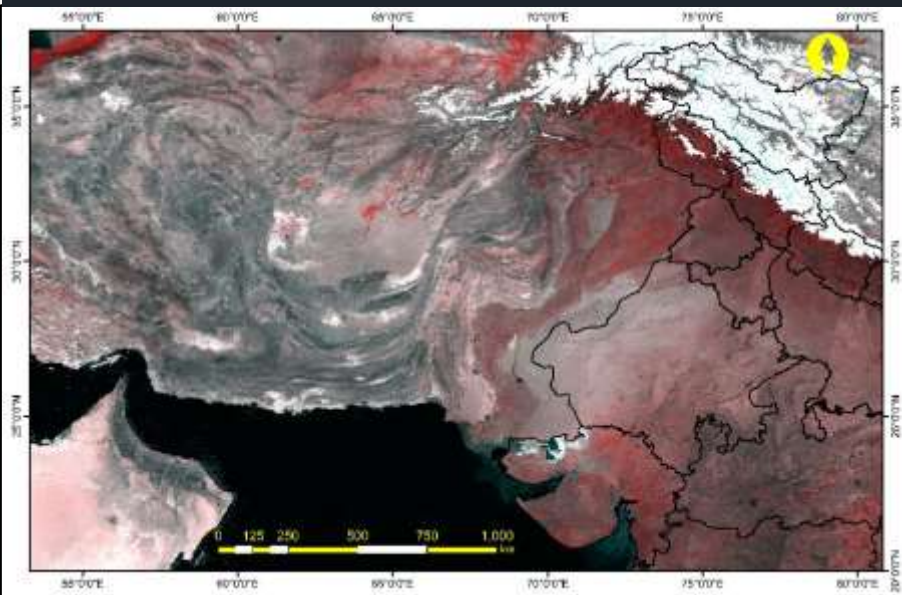
Status & Forecast

During the routine survey, it has been observed that India is free from gregarious as well as solitary desert locust activities during the 2nd fortnight of December, 2020. Total 122 nos. of spots were observed during the surveys which are plotted on the map.

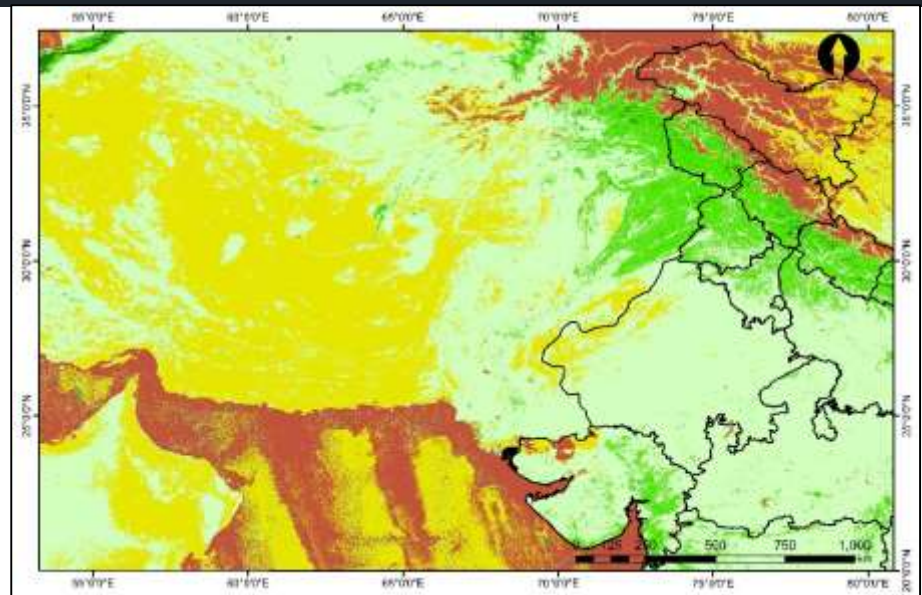


False Colour Composite (FCC)

Normalized Difference Vegetation Index (NDVI)



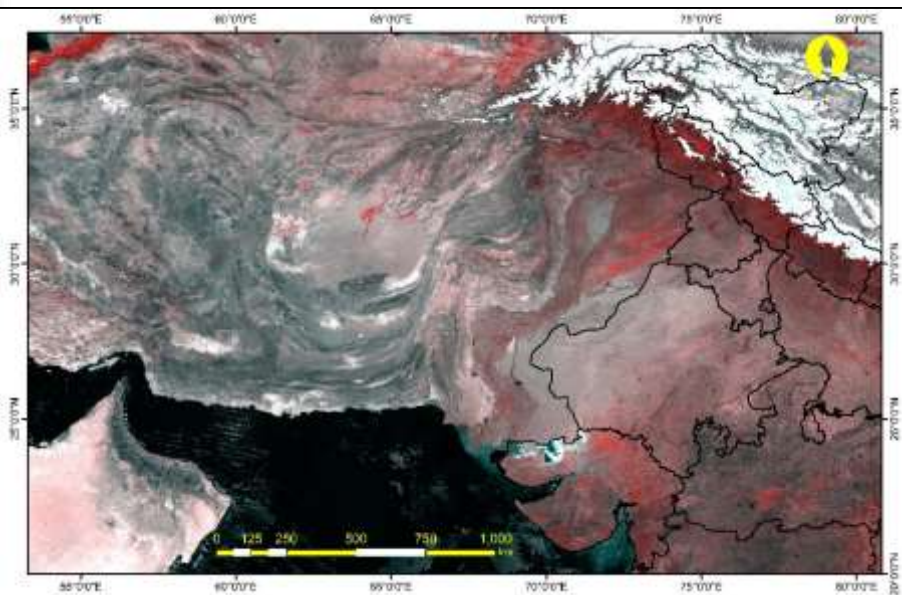
7th Apr – 15th Apr, 2021



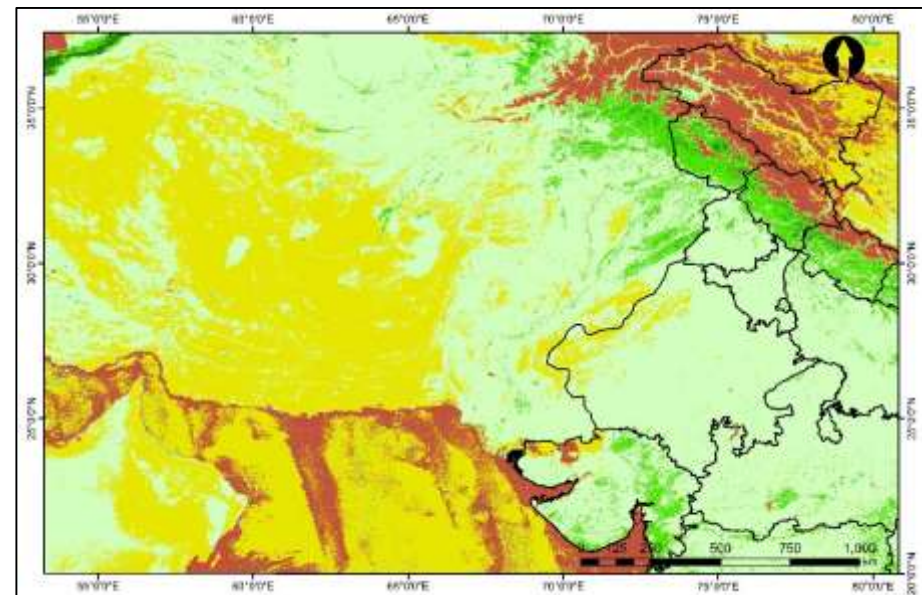
1st Apr – 10th Apr, 2021

Legend for NDVI values:

< 0.0	0.0 - 0.1	0.1 - 0.4	0.4 - 0.7	0.7 - 1.0
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23th Apr – 1st May, 2021



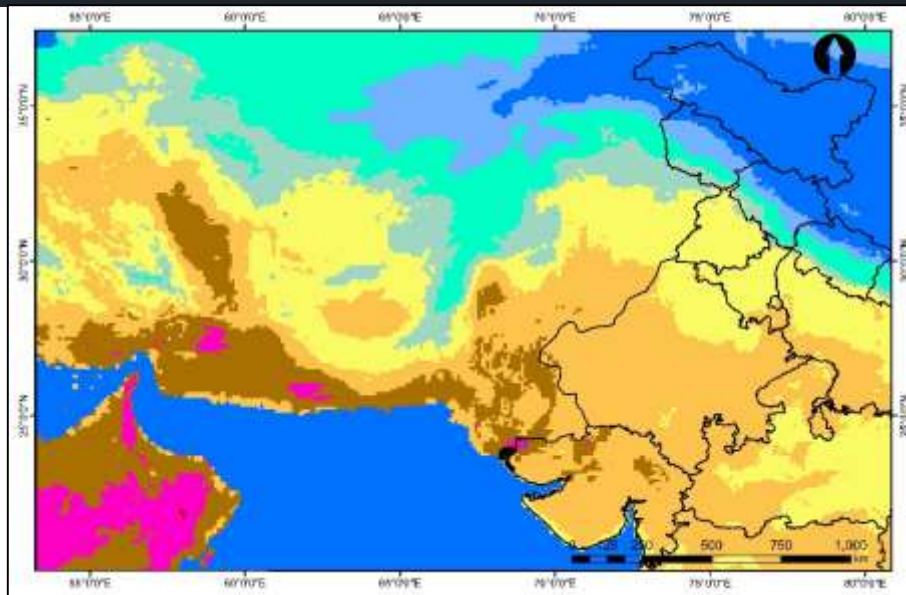
16th Apr – 25th Apr, 2021

Source: MODIS 8 day Composite

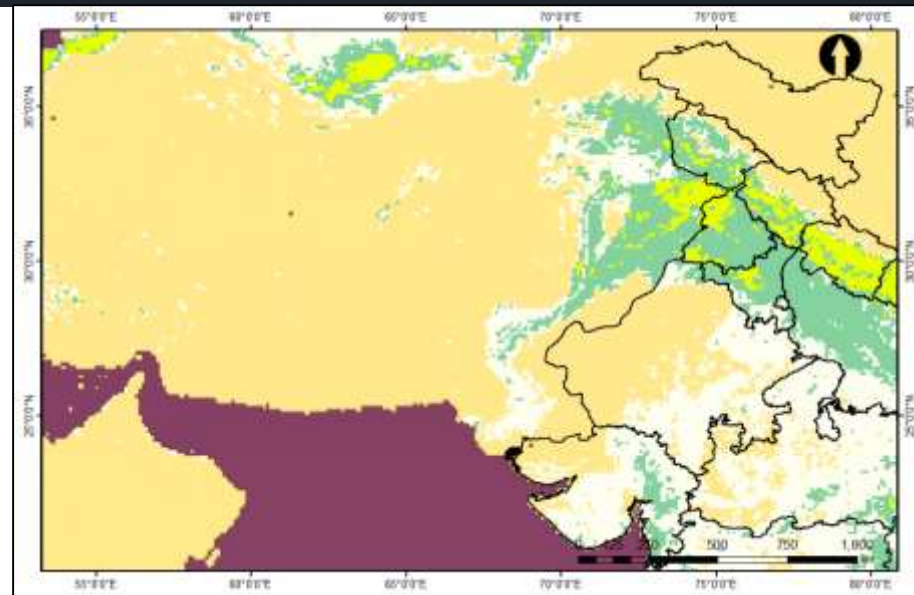
Source: eMODIS Ver. 6

Land Surface Temperature (°C)

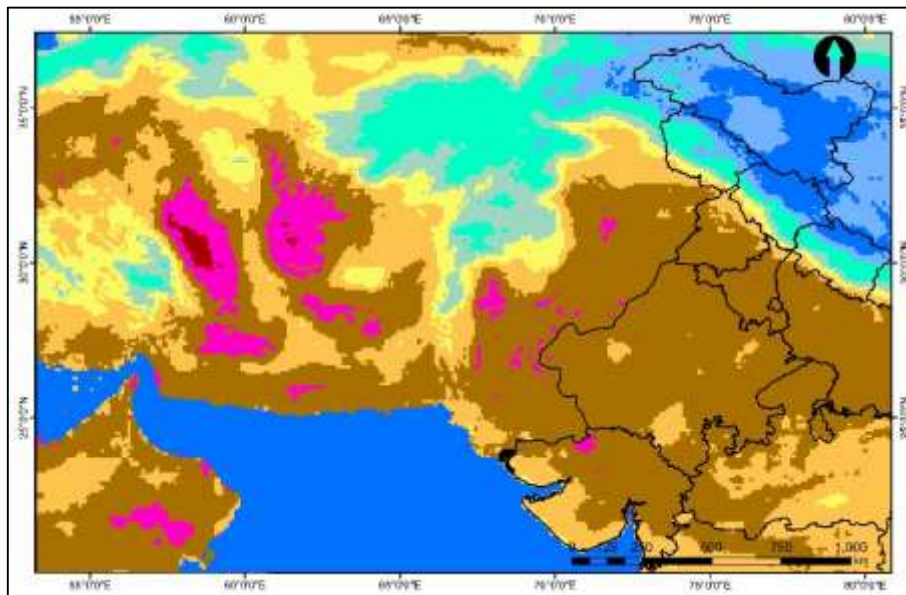
Leaf Area Index (LAI)



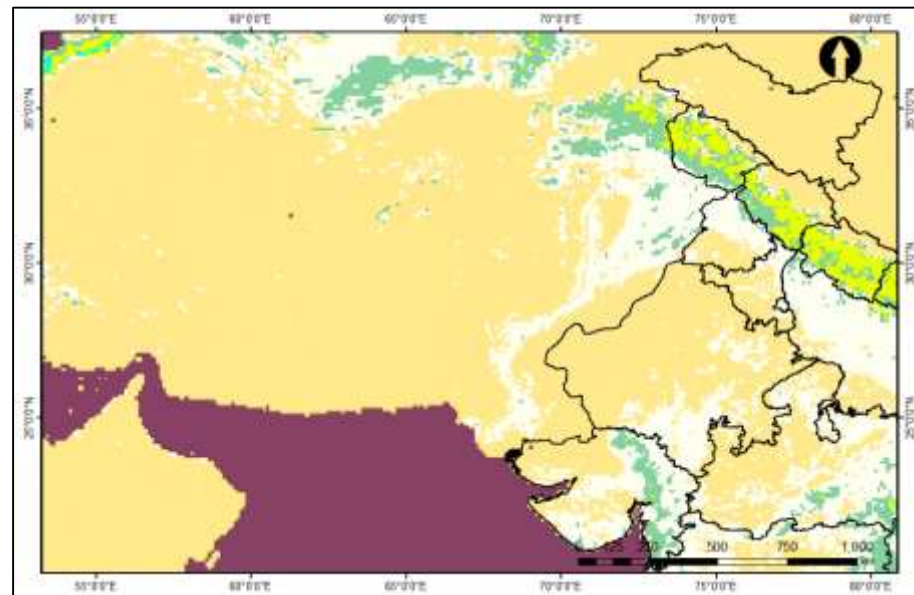
19:00 Hrs. IST of 1st Apr - 2021



19:00 Hrs. IST of 1st Apr 2021.



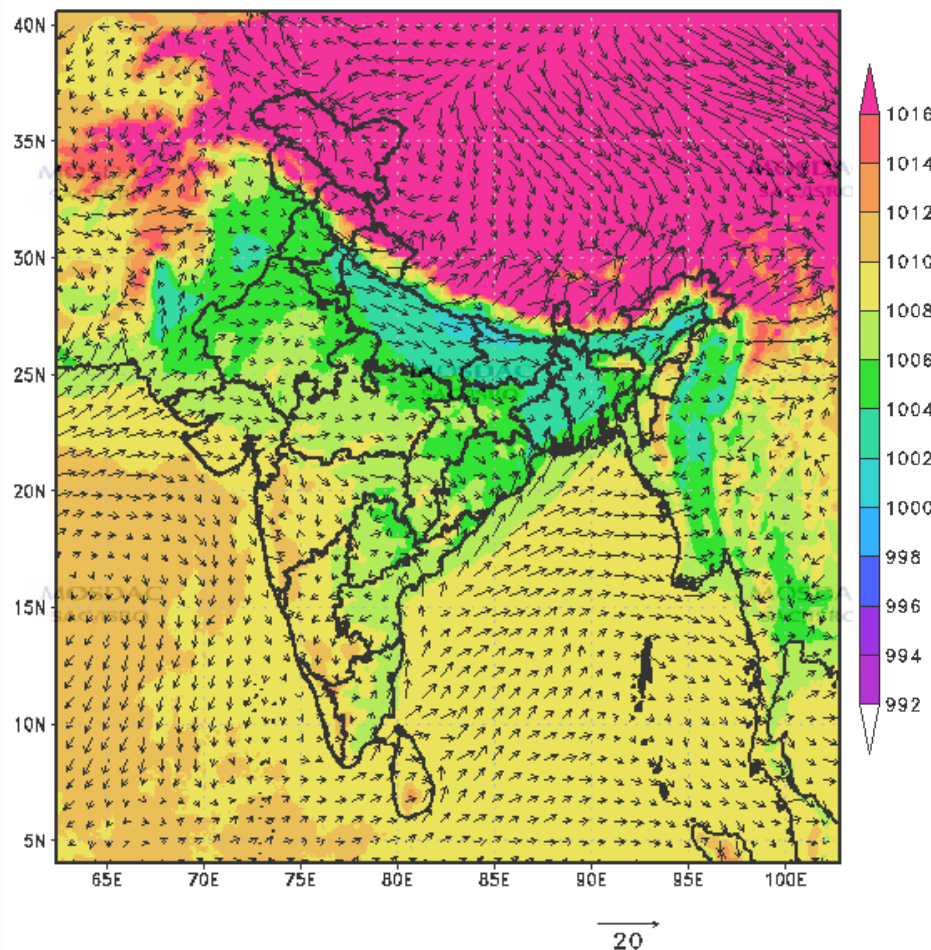
19:00 Hrs. IST of 29th Apr 2021.



19:00 Hrs. IST of 29th Apr 2021.

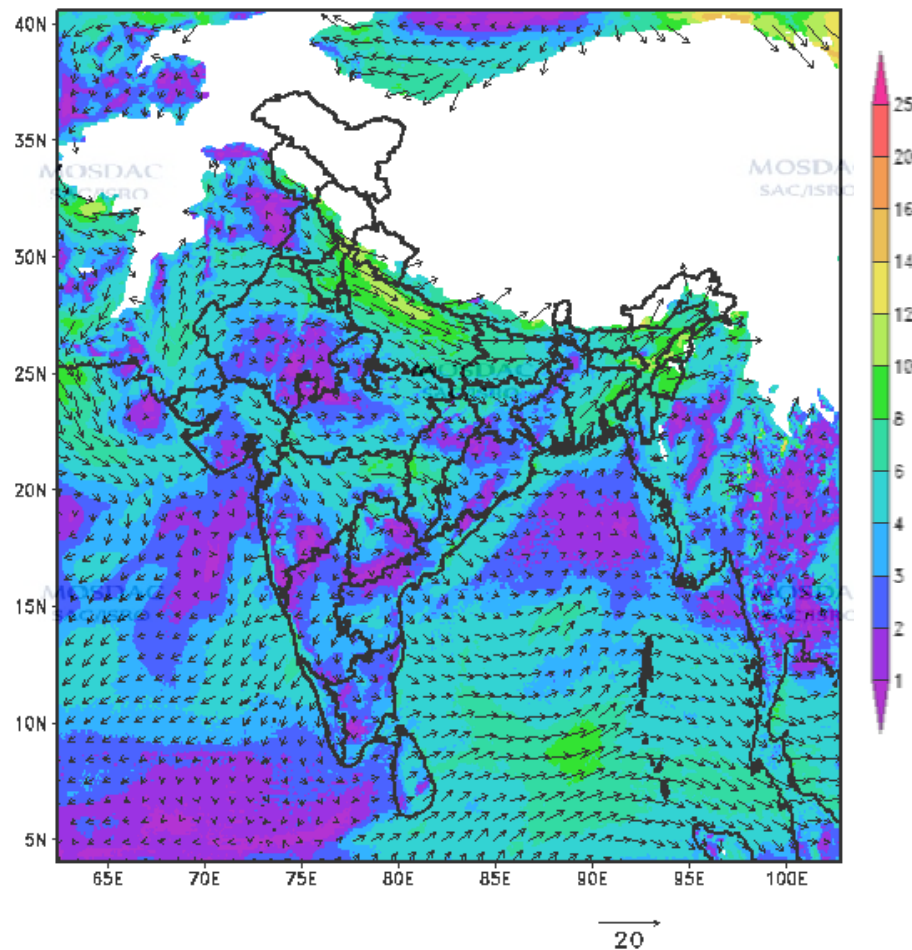
Wind Vectors

30hr Forecast valid for 1130 IST 27APR2021
MSLP & 10m height Wind



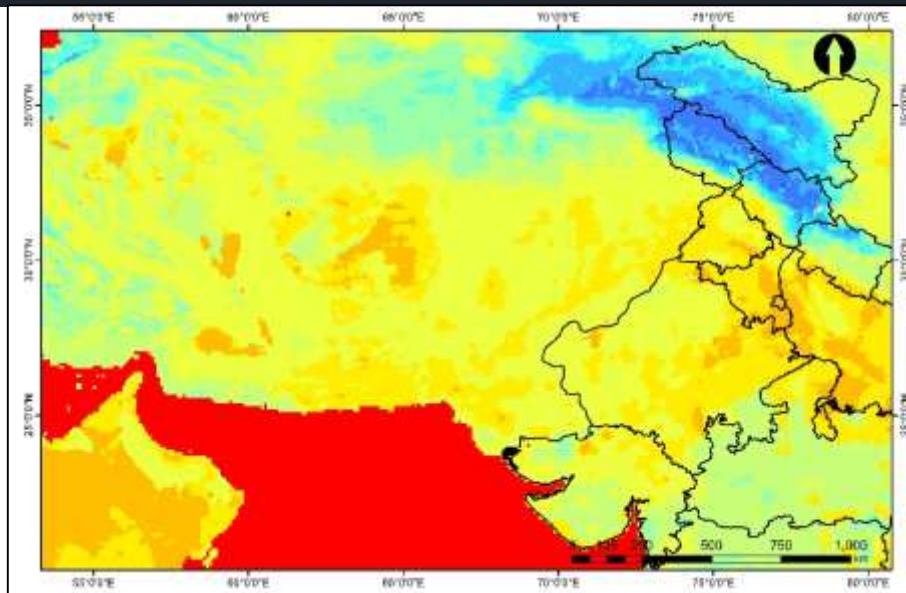
Source: MOSDAC web portal

30hr Forecast valid for 1130 IST 27APR2021
850 hPa Wind



Wind speed @ 1.46 km from msl.

Surface Soil Moisture Map (%)



Root-Zone Soil Moisture Map (%)

