National Remote Sensing Centre
Indian Space Research Organisation
Dept. of Space, Govt. of India, Balanagar, Hyderabad - 500 037

Shadnagar (Earth Station)
Delhi| Bengaluru | Jodhpur
| Kolkata | Nagpur

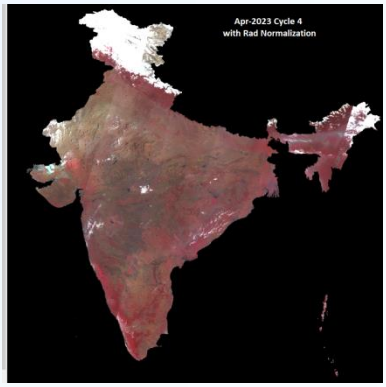
NRSC/DPA/March 2024

Full India Image composites

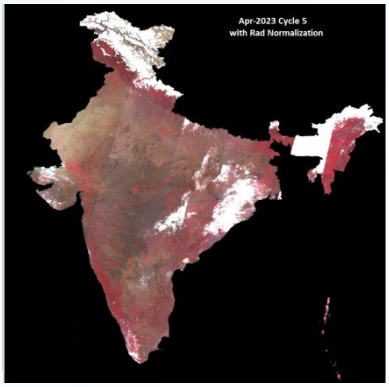
Fortnight and Monthly composites from Resourcesat-2 :AWIFS

Cloud cover is a major obstacle to derive information from Optical remote sensing images. Clouds obstruct the view of the Earth's surface and introduce unwanted variations in pixel values, making it difficult to obtain accurate and consistent information. Cloud-free composite image generation is used to create a single, high-quality image from a series of satellite images captured over the same area but at different times by carefully selecting the images where cloud cover is minimal or absent. Image composites are often used for earth surface phenomena studies at regional or national level. The compromise between residual clouds and the length of compositing period is a necessary corollary to the choice of satellite optical data for monitoring earth surface phenomena dynamics.

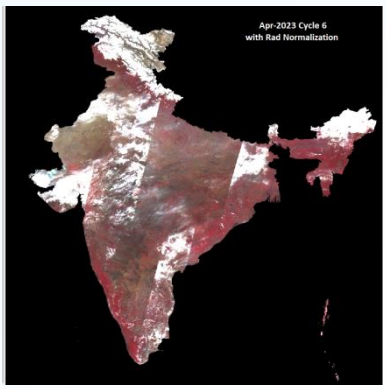
Combined swath of Resourcesat-2 (RS2) AWIFS is 740km from A& B cameras. Full India is covered for every 5 days which is called a cycle. Digital Numbers are converted to top-of-atmosphere (TOA) reflectance from each sub scene within the cycle and all such scenes are stitched to generate cycle wise full mosaic. Data from three cycles are used to generate fortnight maximum cloud-free composite. These composites will serve as an essential asset for monitoring land-use changes, assessing natural resources, and understanding the dynamics of India's diverse ecosystems. Cycle, Fortnight and Monthly Composite products since Apr-2023 are now available on BHOONIDHI as 10^0 X 10^0 tiles.



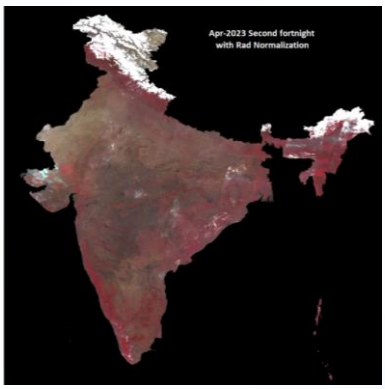
16APR2023 to 20Apr2023



21APR2023 to 25Apr2023



26APR2023 to 30Apr2023



16APR2023 to 30Apr2023

Image File Format	**:Geo TIFF**
Projection	**:GCS**
Datum	**: WGS-84**
Spatial Resolution	**:100m (AWIFS)**
Radiometric Correction	**: Top of Atmosphere (TOA)**
Geometric Correction Level	**: Terrain corrected**
Number of bands	**: 4**

Web links:

bhoonidhi.nrsc.gov.in
bhuvan.nrsc.gov.in

For further details, please
+91-40-2388 4423
bhoonidhi@nrsc.gov.in , data@nrsc.gov.in, gndc@nrsc.gov.in

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