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

nrsc

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

NRSC/DPA/Feb 2024

Bhoonidhi – ISRO's Earth Observation Data Hub

Implementation of Indian Space Policy - Satellite Data Dissemination

ISRO made the historic announcement of the Indian Space Policy 2023 in April 2023
'Free and Open' dissemination of IRS data by ISRO

Data of 5m spatial resolution & coarser: IRS satellite data acquired by ISRO through its ground stations in India and abroad is made available through Bhoonidhi.

Data finer than 5m spatial resolution: Available free of charge to all Government entities through ISRO. Government entities are required to submit a declaration to access data finer than 5m as Open data.

Derived thematic data: Thematic products like Vegetation & Water indices, Land use Land cover, Forest cover, DEM finer than 30m and customized products from IRS satellites generated by ISRO shall be charged at fair and transparent pricing to Non Government Entities (NGEs).

Priced Data Ordering

Finer than 5m through Bhoonidhi by NSIL
EO data dissemination of priced data will be done on 'commercial' basis by NSIL through Bhoonidhi.

For any queries on pricing & terms of supply, Non-Government Entities (NGEs) may contact NSIL at eodata@nsilindia.co.in.

Shree Ram Mandir, Ayodhya - Captured by C2E MX

Open For All

Coarser than 5m spatial resolution

Satellite data coarser than 5m spatial resolution is provided as Open data for all users at Bhoonidhi.

Missions-Sensors	
EOS-04 MRS/CRS	ResourceSat-2/2A
EOS-06	ScatSat-1
GSAT29	SARAL
IRS-1A, 1B, 1C, 1D	NISAR
MicroSat-1 MX	LandSat-8/9
OceanSat-1	Sentinel-1/2
OceanSat-2	Suomi-NPP
ResourceSat-1	JPSS1

Open For Government Entities (GE)
Priced for Non-Government Entities (NGE)

Satellite data finer than 5m spatial resolution

Data finer than 5m is provided as priced data to Non-Government Entities (NGEs) and as Open data for Government Entities (GEs) who have submitted the declaration.

Missions-Sensors	
CartoSat-1	KompSat-3
CartoSat-2	KompSat-3A
CartoSat-2S	EOS-04 FRS
CartoSat-3	RISAT-1 FRS
NovaSAR	
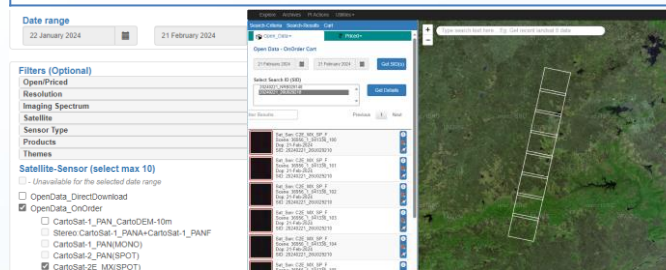
Web links:

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

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

Earth Observation Satellite Data & Geospatial services to nation since 1974

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## Bhoonidhi – ISRO's Earth Observation Data Hub

Data Ordering and Visualization Services @ Bhoonidhi

Browse & Order

Bhoonidhi is ISRO's Earth Observation data hub having a huge repository of EO data across missions and sensors with fresh acquisitions being added on a daily basis covering India and surroundings. This web application provides seamless ordering and dissemination of Open & Priced satellite data products through various interfaces to online users as per policy. Various user friendly data search options are provided as Cart based instant or delayed download for open and priced data.


Open Data - Direct Download (Select > Search > Add to Cart > Download)
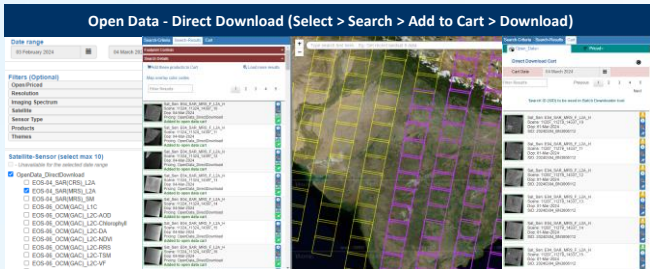
Latest Product Additions @ Bhoonidhi

EOS-06 (Oceansat-3) Open Data Products
EOS-06 Global Binned Wind Vector products for SCAT-3
EOS-06 Binned Information Products for OCM GAC & LAC
ResourceSat-2 AWiFS 10deg x 10deg Tiles @100m
ResourceSat 1&2 AWiFS 1x1deg tiles from 2009-2019, 3 times/yr
ResourceSat 1&2 LISS3 15x15min tiles from 2009-2019, 2 times/yr
Cartosat-3 PAN+MX merged products (0.45m)
EOS-06 (Oceansat-3) Open Data Products

Priced Data (Select > Search > Add to Cart > Generate PI > Convert to Order)
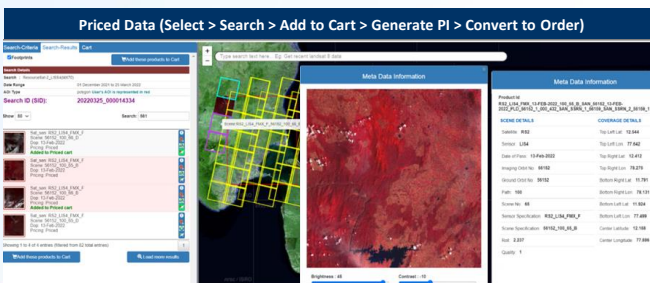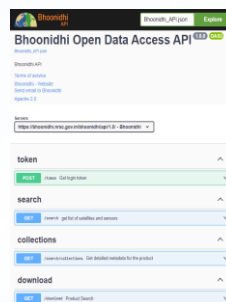
Bhoonidhi Vista

Bhoonidhi VISTA (Visualization of Terrestrial Acquisitions) provides full resolution multi-mission-sensor data visualization capabilities With Vista, users can visualize the latest view of India captured by Indian and other EO sensors in native resolution.
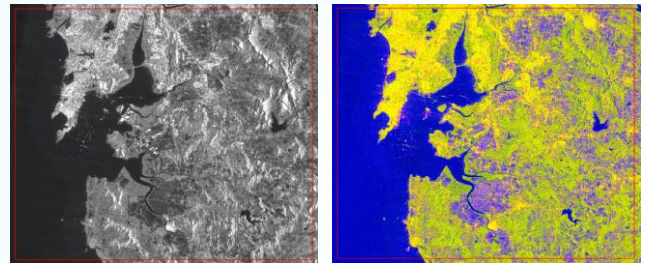
EOS-04 SAR-MRS HV(left) and FCC(right) over Mumbai on 29-Feb-2024

Upcoming Releases
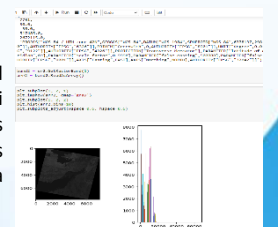
Bhoonidhi API with STAC interface

Bhoonidhi Open Data Access API will enable automation of data search (catalogue in STAC format) and open data download. Comprehensive API Specification will be provided for guided access.

Bhoonidhi STAC (Spatio Temporal Asset Catalog) - a standardized way to expose collections of spatial temporal data will enhance the interoperability of data search for satellite imagery.

Bhoonidhi Codelab

Bhoonidhi Codelab is a fully managed Jupyterhub Interface to access Bhoonidhi hosted satellite image datasets, process them with different open source libraries built into the environment through a browser

Web links:

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