

Dissemination of AVIRIS-NG data products through VEDAS portal

**Space Applications Centre
Ahmedabad
vedas@sac.isro.gov.in**

www.vedas.sac.gov.in:8080/aviris



HOME APPLICATIONS ▾ TRAINING & RESEARCH ▾ ATLAS ▾ SDIS FORUM ABOUT US हिन्दी **Beta Ver.**



Earth Observation

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Last Updated on 05-Sep-2016

Useful Links

- > **AVIRIS**
- > Digital India
- > My GOV
- > NNRMS
- > MOSDAC

- > Tree Plantation
- > Open Government Data
- > India Portal
- > SAC
- > ISRO

or Click **AVIRIS** link on www.vedas.sac.gov.in

Home Page

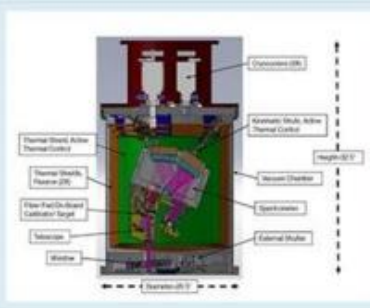
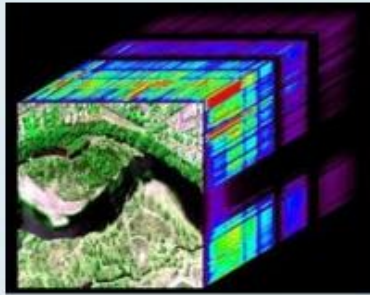


HOME

SITES MAP

SITES TABLE

New User Registration



Airborne Hyperspectral Mission – Science Data Utilization Plan

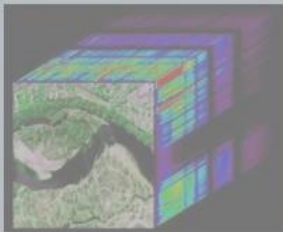
- Space Applications Centre (SAC), Indian Space Research Organisation (ISRO), Department of Space (DOS), Government of India, declares an "Announcement of Opportunity (AO)" to carry out scientific research for the utilisation of science data to be acquired from Airborne flights of Hyperspectral sensor called AVIRIS Next Generation (NG) over India in collaboration with Jet Propulsion Laboratory (JPL), NASA.
- The AVIRIS flights over Indian sub-continent were conducted during October – November, 2015 and January - February, 2016. Presently, this AO is targeted towards utilizing the data to be acquired from AVIRIS NG flights.
- The AVIRIS-NG can take observations over a continuous electromagnetic spectrum spread over 380 – 2510 nm at 5 nm band interval. This is capable of providing hyperspectral observations at 6 m pixel resolution over a flight swath of 6 km when the flight altitude is about 6 – 7 km.
- In the past, ISRO has developed and launched hyperspectral satellite sensor such as HySI in Indian Mini Satellite 1 (IMS-1) mission and Chandrayan-1 mission. In the past ISRO has carried out hyperspectral applications using ground, airborne and space borne sensors in various fields.
- **Registered and Authorized user can download AVIRIS data from this web site.**
 - Download AVIRIS Data User's Guide -> [Click Here](#)
 - Download Announcement of Opportunity (Hyper AO) -> [Click Here](#)
 - Download ISRO-NASA AVIRIS Science Plan Document (Draft) -> [Click Here](#)

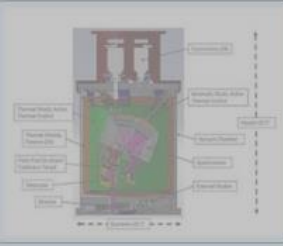
New Registration / Password Change

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  HOME SITES MAP SITES TABLE

New User Registration





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Registration Form Change Password X

AVIRIS Registration

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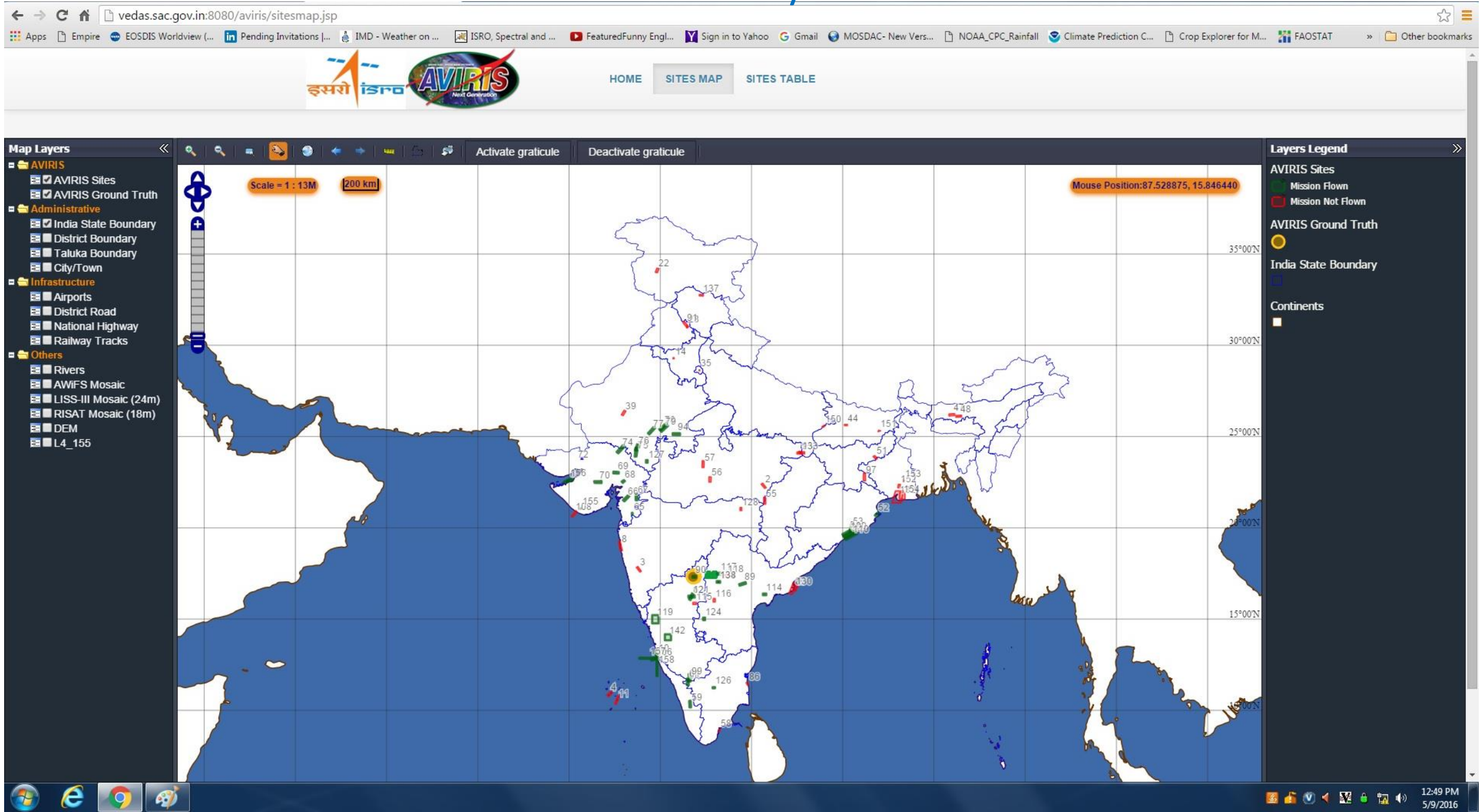
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– 7 km.

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Click Here
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Sites covered by AVIRIS-NG



AVIRIS-NG Sites Info with LISS-III in background

vedas.sac.gov.in:8080/aviris/sitesmap.jsp

Apps Empire EOSDIS Worldview (Pending Invitations IMD - Weather on ISRO, Spectral and FeaturedFunny Engl Sign in to Yahoo Gmail MOSDAC- New Vers NOAA_CPC_Rainfall Climate Prediction Crop Explorer for M FAOSTAT Other bookmarks



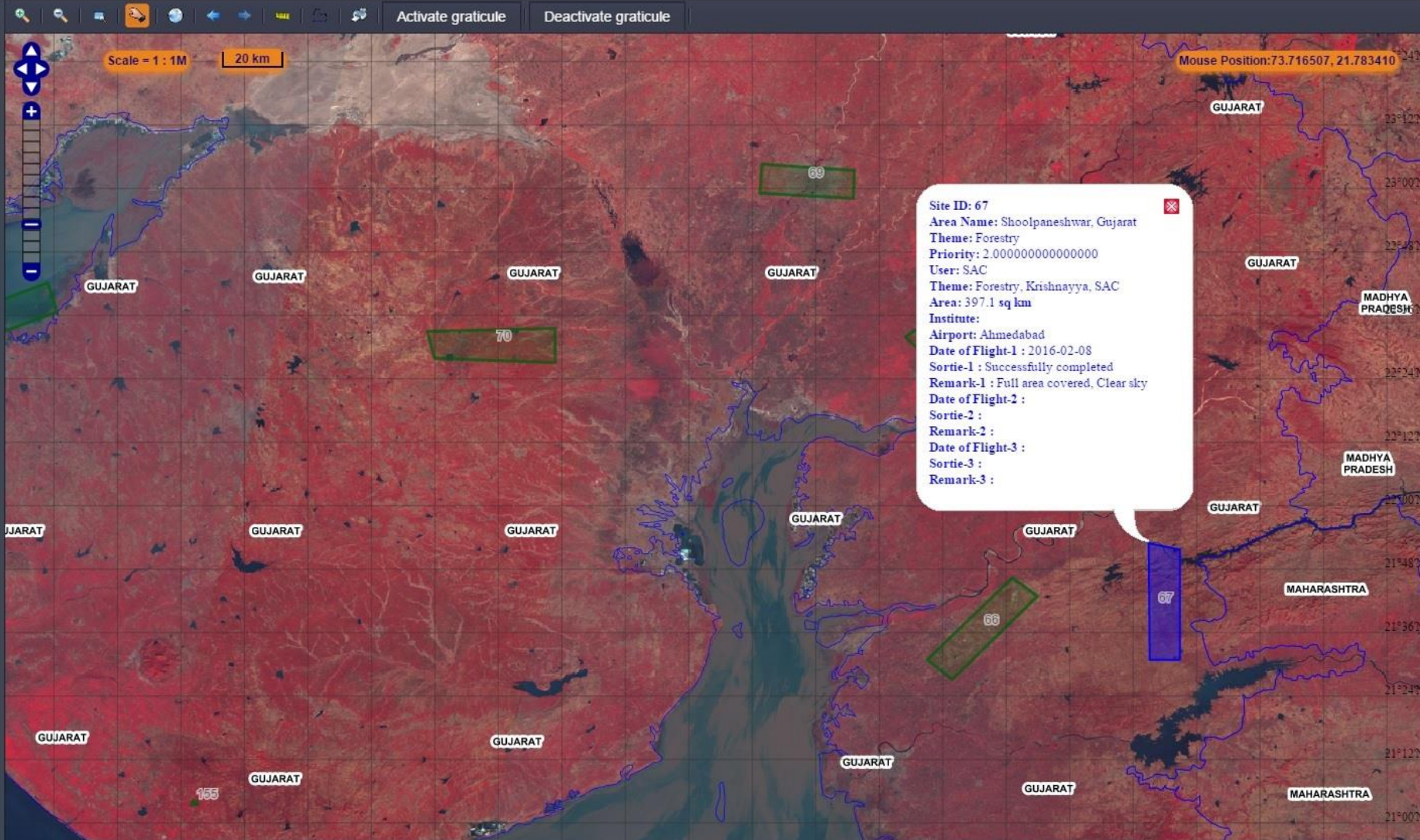
HOME

SITES MAP

SITES TABLE

Map Layers

- AVIRIS
 - ☒ AVIRIS Sites
 - ☒ AVIRIS Ground Truth
- Administrative
 - ☒ India State Boundary
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- Infrastructure
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- Others
 - ☐ Rivers
 - ☐ AWiFS Mosaic
 - ☒ LISS-III Mosaic (24m)
 - ☐ RISAT Mosaic (18m)
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 - ☐ L4_155



Layers Legend

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 - ☒ Mission Flown
 - ☐ Mission Not Flown
- AVIRIS Ground Truth
 - ☒ Mission Flown
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 - ☐ India State Boundary
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Tabular information of sites covered by AVIRIS-NG

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Apps Empire EODIS Worldview (...) Pending Invitations (...) IMD - Weather on ... ISRO, Spectral and ... FeaturedFunny Engl... Sign in to Yahoo Gmail MOSDAC- New Vers... NOAA_CPC_Rainfall Climate Prediction C... Crop Explorer for M... FAOSTAT » Other bookmarks



HOME SITES MAP SITES TABLE

List of Sites selected for AVIRIS Flight

Click on the Field to be Sorted

10 records per page

Search:

Serial No.	Area Name	Theme	Priority	Theme, User	Area (km) ²	Site User	Site ID	Select for Download
21	Tamilnadu	Phenology & Forest Stress	1	Phenology & Forest Stress, P.Ramachandra Prasad, IIT, DST	27.5	DST	61	Select
22	Sholayar R F, Kerala	Forestry	2	Forestry, Krishnayya, SAC	368.6	SAC	59	Select
23	Hutti Muski Area, Karnataka	Hydrothermal alteration	1	Hydrothermal alteration, KN Kusuma, Univ. Of Pondicherry, DST	367.3	DST	62	Select
24	Jhadia, Gujarat	Minerology	1	Minerology, Debashish Chakraborty, IIT Kgp, DST.	422.8	DST	66	Select
25	Shoolpaneshwar, Gujarat	Forestry	2	Forestry, Krishnayya, SAC	397.1	SAC	67	Select
26	Vuyyuru	Soil & Crop(sugarcane)	4	SOILS_AGRI	197.2	RSGIS, NRSC	114	Select
27	icrisat	Soil & Crop(crop type discrimination)	1	SOILS_AGRI	197.2	RSGIS, NRSC	117	Select
28	Chilika Lagoon, Orissa	CRZ studies	1	CRZ, ASR, SAC	820.1	SAC	92	Select
29	Coastal Offshore, Mangalore, karnataka	Biological Oceanography	1	Mini Raman	422.6	SAC	106	Select
30	Pichavaram, Tamilnadu	Mangroves	1	Mangroves, TVR Murthy, SAC	96.7	SAC	86	Select

Showing 21 to 30 of 82 entries

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Next →



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Selected Site Info with RISAT in background

vedas.sac.gov.in:8080/aviris/aviris_download_viewport.jsp

Apps Empire EOSDIS Worldview (Pending Invitations (IMD - Weather on (ISRO, Spectral and (FeaturedFunny Engl... Sign in to Yahoo Gmail MOSDAC- New Vers... NOAA_CPC_Rainfall Climate Prediction C... Crop Explorer for M... FAOSTAT Other bookmarks

Map Layers

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 - ☐ AWIFS Mosaic
 - ☐ LISS-III Mosaic (24m)
 - ☒ RISAT Mosaic (18m)
 - ☐ DEM
 - ☐ L4_155

Download

Activate graticule Deactivate graticule

Layers Legend

- AVIRIS Sites
- India State Boundary
- District Boundary
- RISAT Mosaic (18m)

Scale = 1 : 250K 5 km

Level:0 (Raw)
Level:1 (Radiance)
Level:2 (Reflectance)

Site ID: 66
Area Name: Jhadia, Gujarat
Theme: Mineralogy
Priority: 1.0000000000000000
User: DST
Theme: Mineralogy, Debashish Chakraborty, IIT Kgp, DST.
Area: 422.8 sq km

vedas.sac.gov.in:8080/aviris/aviris_download_viewport.jsp#

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5/9/2016

Downloading data (Level : L0/L1/L2) of Selected Site

www.vedas.sac.gov.in:8080/aviris/aviris_download_viewport.jsp

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Map Layers

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 - ☒ Administrative Boundary
 - ☐ India State Boundary
 - ☐ District Boundary
 - ☐ Taluka Boundary
 - ☐ City/Town
- Infrastructure
 - ☐ Airports
 - ☐ District Road
 - ☐ National Highway
 - ☐ Railway Tracks
- Others
 - ☐ Rivers
 - ☐ AWiFS Mosaic (56m)
 - ☐ LISS-III Mosaic (24m)
 - ☐ RISAT Mosaic (18m)
 - ☐ DEM

Download

Level:0 (Raw)
Level:1 (Radiance)
Level:2 (Reflectance)

ang20160209t055217_rfl_v1k
ang20160209t060008_rfl_v1k
ang20160209t060746_rfl_v1k

Layers Legend

Site Sortie

- site65_ang20160209t055217
- site65_ang20160209t060008
- site65_ang20160209t060746

AVIRIS Sites

- Untitled 1

Administrative Boundary from Bhuvan

- AP_Vill
- AS_Vill
- CG_Vill
- GJ_Vill
- HR_Vill
- JH_Vill
- KA_Vill
- KL_Vill
- MH_Vill
- MP_Vill
- OR_Vill
- RJ_Vill
- SK_Vill
- TN_Vill
- TR_Vill
- UK_Vill
- UP_Vill
- WB_Vill
- INDIA_STATE
- AP_Telengana_bnd_line

Scale = 1 : 54K

www.vedas.sac.gov.in:8080/aviris/aviris_download_viewport.jsp#

Provide Username & Password for downloading data

Please Login to Download File

Site Id : 65 Level : 2

Filename :
ang20160209t055217_rfl_v1k

Ground Truth Site Information

vedas.sac.gov.in:8080/aviris/sitesmap.jsp

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Activate graticule Deactivate graticule

Scale = 1 : 50K 1000 m

Mouse Position: 76.797535, 17.355375

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Local Site Description: Slum Rehabilitation

Landuse Level1: Built Up

Landuse Level2: Built Up (Urban)

Landuse Level3: Residential

Landuse Level4: Low density residential

Landuse Level5: Slum Rehabilitation

Material Type: Concrete



AVIRIS Ground Truth

India State Boundary

LISS-III Mosaic (24m)

Continents

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