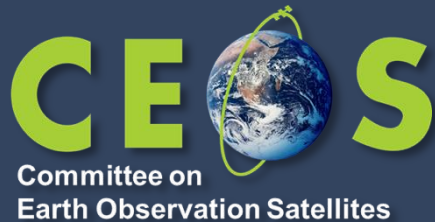


WGISS-61 AVHRR Data Recovery Project Updates



M. Albani, ESA
Agenda Item 8.2
WGISS-61
16-20 March 2026
Dehradun, India

AVHRR a unique long time data series



AVHRR data available as GAC (4 km) or LAC (1km). 1-km AVHRR LAC data gives new insights on structural changes on land in comparison of coarse resolution AVHRR GAC data.

GAC DATASETS

- NOAA POES AVHRR GAC global archive: 1978 onwards

LAC DATASETS

- EUMETSAT MetOp AVHRR 1km FRAC global archive: March 2008 onwards
- Global Land 1-km AVHRR data set covering the period 1992-99 “*1Km project*”
- Many national / regional data archives of LAC data around the world covering a longer period with high value for the retrieval of ECVs. Some of them accessible to users, others not due to unknown accessibility, responsibility, data format and structure.

Objective: Build a worldwide coverage AVHRR LAC data series from 1978 onwards

1. Unfolding and making accessible 1km AVHRR data from regional archives (possibly open and free);
1. Transcribing unique data from heritage media;
1. Identifying a common format for AVHRR Level-1b and Level-1c data and pursuing (re)processing from AVHRR data owners/holders and data accessibility;
1. Facilitating data discovery through the WGISS Connected Data Assets Infrastructure.

AVHRR 1 Km digital data archives (excerpt)



- **Europe:** ESA & University of Bern (Switzerland), STFC CEDA (UK, including Dundee Satellite Receiving Station), MeteoFrance (France), DLR (Germany), METoffice (UK), IGIK (Poland);
- **Americas:** NOAA and USGS (USA), NRCan/CCMEO (Canada), GiDyC-Servicio Meteorológico Nacional (Argentina), INPE (Brazil);
- **Africa:** SANSa (South Africa), ASI / University of Rome (Kenya);
- **Asia:** CMA (China), IRIM (Mongolia), GITSDA (Thailand), Jaxa & Chiba University (Japan), ISRO (India);
- **Australia:** CSIRO;
- Datasets from Meteorological Institutes, Universities and other organizations all over the globe.

Fundamental to ensure accessibility of 1-km LAC data from all available sources (in particular in the period before 2008)



AVHRR Global Land 1km Dataset

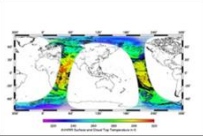


Global 1km AVHRR dataset 2008 - today



 **EUMETSAT DATA SERVICES**

[Product Navigator](#) / [Product details](#)



Status
Operational

Temporal extent
01/03/2008 to now

Data policy
Free and unrestricted

Processing level
N/A

Region
Global

Latitude
-90 to 90 degrees

Longitude
-180 to 180 degrees

AVHRR Level 1B - Metop - Global

Publication date: 23/03/2009

DESCRIPTION

The Advanced Very High Resolution Radiometer (AVHRR) operates at 5 different channels simultaneously in the visible and infrared bands, with wavelengths specified in the instrument channels description. Channel 3 switches between 3a and 3b for daytime and nighttime. As a high-resolution imager (about 1.1 km near nadir) its main purpose is to provide cloud and surface information such as cloud coverage, cloud top temperature, surface temperature over land and sea, and vegetation or snow/ice. In addition, AVHRR products serve as input for the level 2 processing of IASI and ATOVS.

Metop-A data are available in the Data Centre up to 15/11/2021.

ACCESS

[By distribution](#) [By format](#)

 EUMETSAT Data Store		 Access
 EUMETCast-Europe		 Access

**Metop satellites
operated by EUMETSAT**

**Temporal extent:
01/03/2008 to today**

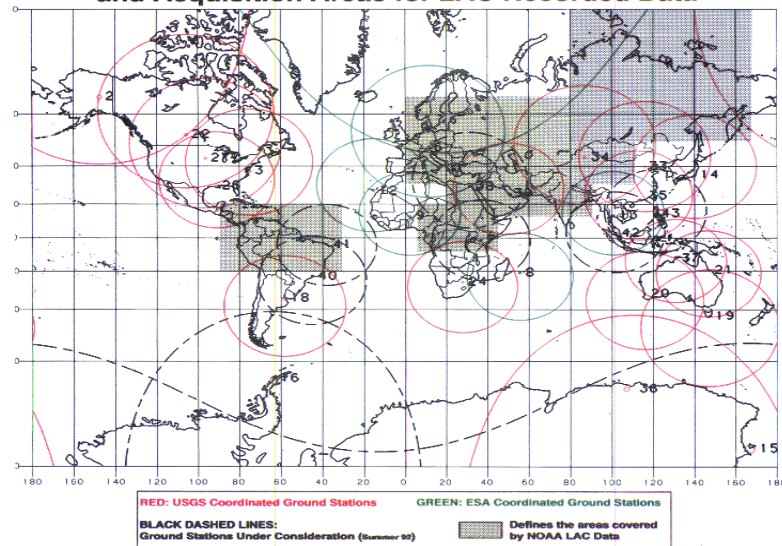
Level-1b data

Open and Free

Global 1km AVHRR dataset 1992-1999



**Global Land 1km AVHRR Data Set Project
HRPT Ground Station Network (as of April 1, 1992)
and Acquisition Areas for LAC Recorded Data**



AVHRR receiving stations contributing to global land 1km AVHRR data set. (https://lta.cr.usgs.gov/1km/hrpt_image)

Two different global Land 1-km AVHRR datasets covering the period 1992-1999 are available at ESA :

1. **Data acquired at ESA network stations** (Terranova, Nairobi, Manila, etc..) processed up to L1C and accessible through ESA as dataset *Out-of-Europe*.
1. **Data in stitched format (.arch files) from USGS network stations** not accessible at USGS/NOAA but available at ESA in stitched format.

- **Unstitching, conversion, full processing into Level-1B and Level-1C completed at ESA.**
- Open access to users through ESA dissemination systems by **Q2/Q3 2026**.

Products Number*				
	L0	L1A	L1B	L1C
1Km-Project (out of Europe)		3901	3901	2991

* No L0 available.



AVHRR Regional LAC Archives



ESA AVHRR geoTool



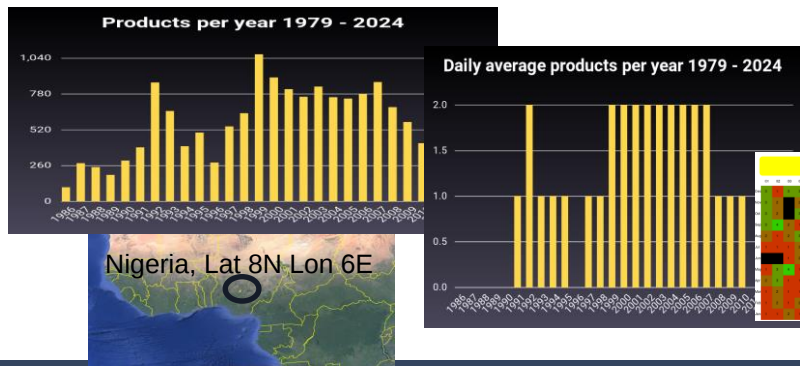
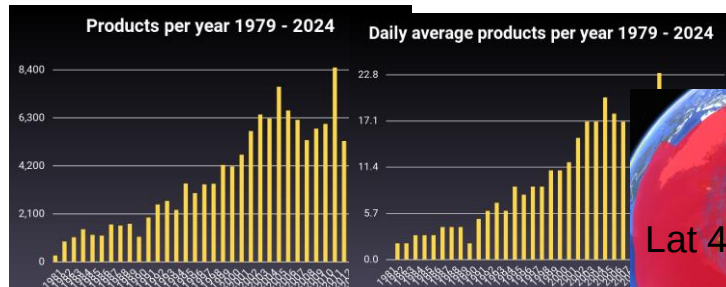
A **tool** was developed to **select AVHRR products** available at ESA over specific Earth **points** (lat, lon) and **time range**. The tool generates:

- KML files with available products frame coordinates
- Graphs with products per year and average daily products per year

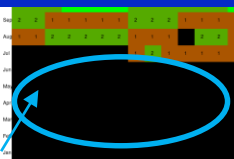
- Heat charts per year to identify daily gaps and

trigger/support data DEDICATED Presentation and DEMO at WGISS#61

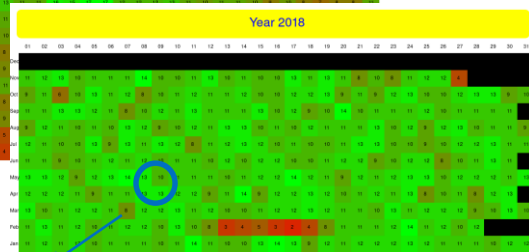
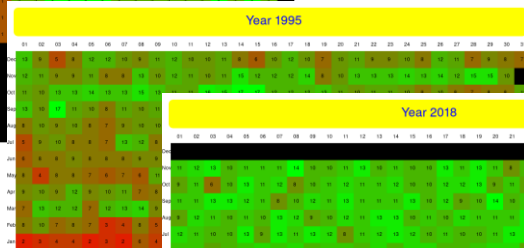
- **Data gap analysis** being extended to other CEOS agencies AVHRR datasets (global map)



Nigeria, Lat 8N Lon 6E



No data

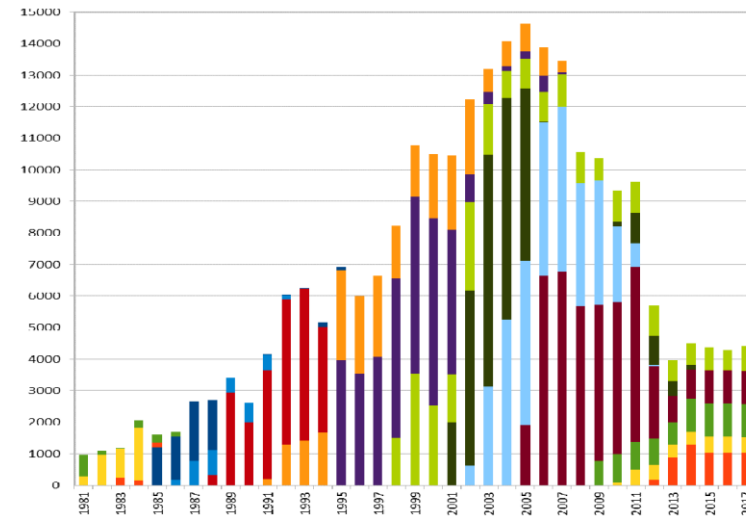


Products per day

- Long time series (1981–2020) of AVHRR data from different platforms (POES, MetOp)
- Unique source to retrieve Essential Climate Variables (ECV) to investigate climate change over last 40 years.
- European dataset includes data from University of Bern, Dundee Station and ESA holdings: **260.000 products harmonized and consolidated** through a dedicated ESA project (Heritage Space Programme).
- **Processing to L1C completed.** All data safely archived at ESA and **accessible free of charge** via ESA since end 2024.

Products Number*				
	L0	L1A	L1B	L1C
Europe	145231	259747	260060	259164

*The L0, L1A and L1B input data are scattered.



<https://earth.esa.int/eogateway/catalog/avhrr-level-1b-1c-local-area-coverage-imagery>

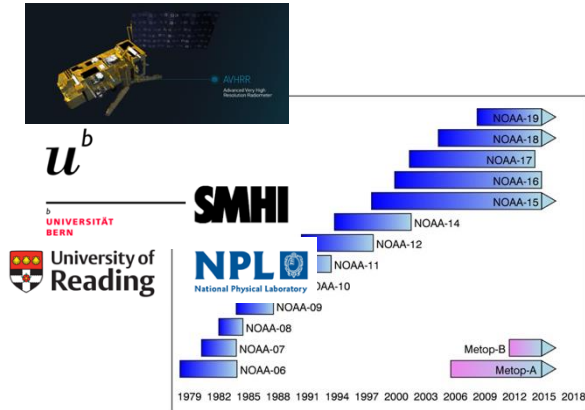
<https://doi.org/10.5270/AVH-f1i8784>

FDR for Advanced Very-High-Resolution Radiometer instrument (FDR4AVHRR)



New project started in **Q1 2024 at ESA:**

- Reprocessing of European AVHRR LAC products series (NOAA & MetOp missions) to generate a L1C Fundamental Data Record (FDR);
- Reprocessed dataset based on **new SW modules** for improved **geocoding / orthorectification, error propagation** and **accurate uncertainty estimates** in the calibration module;
- **FDRs for TIR and VNIR channels** over Europe, **cross-mission calibrated** AVHRR FDR 1 km dataset for all channels;
- Extending European Data Set with data:
 1. over Europe from **2020 to 2025**;
 2. over **Greenland** and northern areas;
 3. over selected regions across the world (**Argentina, Kenya, South Africa, 1-KM Project, Pacific/Atlantic/Africa**).
 4. Completion by mid 2026 and publication in the ESA system by **Q3 2026**.

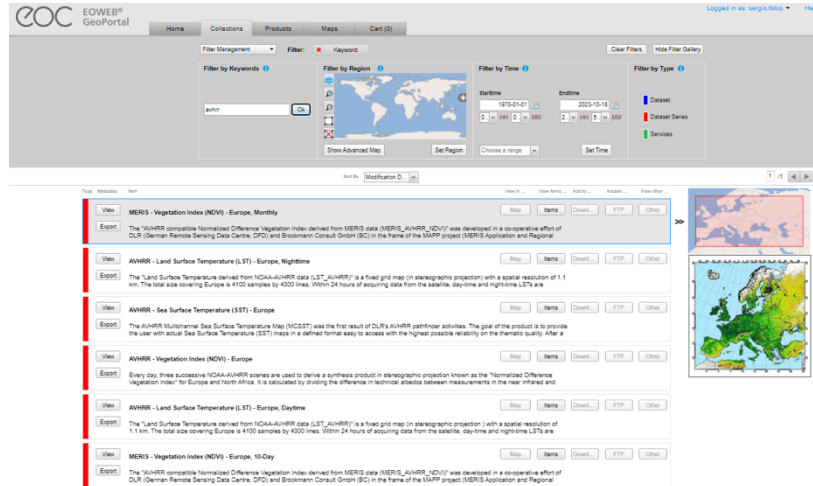


Presentation at
WGISS#57 and
#58

Four AVHRR datasets over Europe (N14,N16,N17,N18,N19) available in the DLR catalogue:

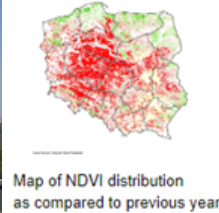
- AVHRR - Land Surface Temperature (LST) - Europe, Nighttime;
- AVHRR - Sea Surface Temperature (SST) - Europe;
- AVHRR - Vegetation Index (NDVI) - Europe;
- AVHRR - Land Surface Temperature (LST) - Europe, Daytime.

High redundancy with ESA dataset; not clear if L0 data available at DLR.



Presentation at
WGISS#57

- The Polish Institute of Geodesy and Cartography dept of Remote Sensing holds NOAA satellites data since 1996 and used for agriculture studies
- The receiving station recorded data in HRPT, SeaWiFS (and other formats) from NOAA, Seastar, Metop and NPOESS polar-orbiting satellites.
- AVHRR data are not accessible from the web site.



The datasets have been downloaded and stored in the ESA tape archive.

ESA received feedback from IGIK in Jan 2025. Two datasets available:

1. NOAA AVHRR Data from All Automatic Overpasses Over Poland Collected by the Dartcom System. Time range 2012-2018, volume 2.0 TB.
2. Dataset from NOAA-11 to NOAA-19 (1995-2014). Volume is 350 GB.
3. **Next Steps:** full processing into Level-1B and Level-1C, open access to users.

Europe – Dundee Station data archived at CEDA



1978 – 2018 AVHRR L0 data available with free and open access through CEDA (UK).

- ESA downloaded the full Dundee AVHRR L0 products (8.9TB, 235,541 L0 products).
- Some data were reprocessed and included in the European dataset. Remaining products are now integrated to extend geographical coverage towards **Greenland** and in time back to 1978 (FDR4AVHRR ESA project Open access to users via ESA systems **Q3 2026**).

data.ceda.ac.uk/neodc/avhrr_dundee/data/Level_0



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archive / neodc / avhrr_dundee / data / Level_0 [8.7 TB | 235,542 files | mostly .txt](#)

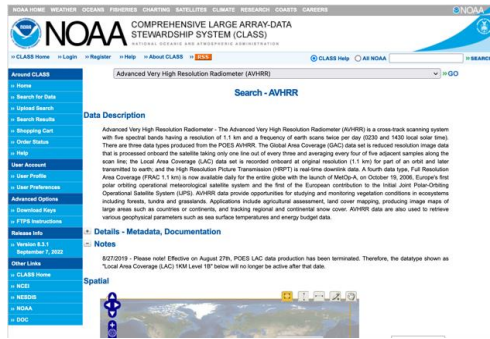
Advanced Very High Resolution Radiometer (AVHRR) - Level 0 data from NEODAAS Dundee Satellite Receiving Station ⓘ

41 dirs 1 files

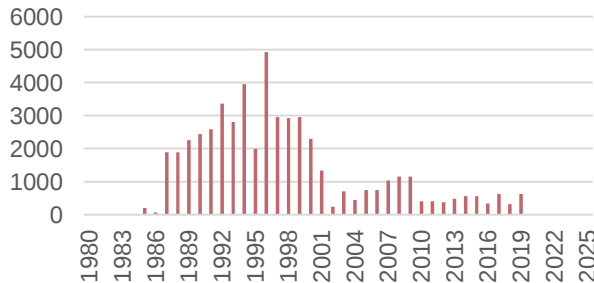
Description	Size	Actions
00README_catalogue_and_licence.txt	886 bytes	View Download
1978		
1979		
1980		
1981		
1982		
1983		
1984		

Presentation at
WGISS#56

North America – NOAA & USGS

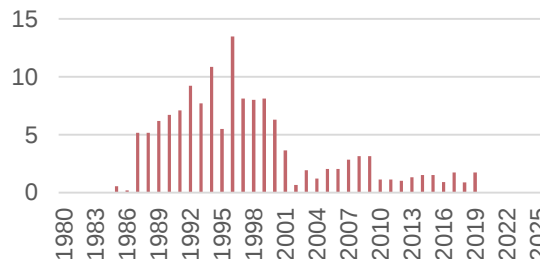


Products per year



Analysis by ESA over North America

Average daily products



NOAA presentation at WGISS#55

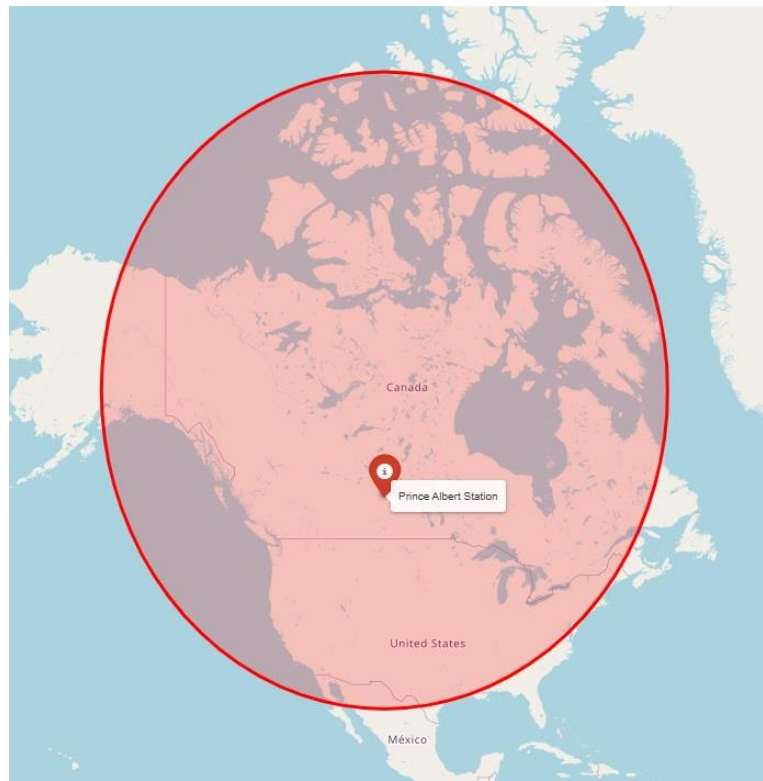
- Receiving Station
- ☐ Cape Ferguson, Australia
 - ☐ Dundee, Scotland, UK
 - ☐ Ewa Beach, HI
 - ☐ Ford Island, HI
 - ☐ Gilmore Creek, AK
 - ☐ Honolulu, HI
 - ☐ Miami, FL
 - ☐ McMurdo Antarctic Data Acquisition
 - ☐ Monterey, CA
 - ☐ Sioux Falls, SD
 - ☐ NOAA Svalbard Antennae
 - ☐ SOCC
 - ☐ Svalbard
 - ☐ Western Europe
 - ☐ Wallops Island, VA

USGS dedicated Presentation at WGISS#61

Two AVHRR data collections available at CCMEO:

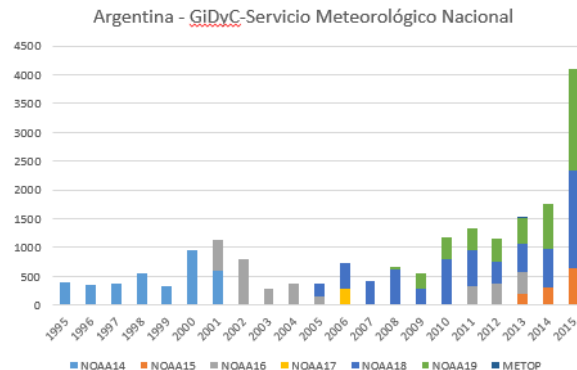
- L1 data products acquired from various stations in Canada from 2013 to today. 1667 products in NOAA L1B format.
- L0 HRPT data acquired at Prince Albert station from 1983 to 2014. 118388 products in NITAS format.

Exchange of information ongoing between ESA and NRCan/CCMEO.



Initial products Metadata

- Source: Jefa Departamento Teledetección Y Aplicaciones Ambientales, GiDyC-Servicio Meteorológico Nacional, Buenos Aires, Argentina
- Number of products: 19360
- Volume size: 740GB
- Satellites: N14, N15, N16, N17, N18, MetopA/B
- Time Period: 1995 – 2015
- Extent: roughly Lat=[-30,15] Lon=[-60,-15]
- Format: QUO (HRPT)



Downloaded products metadata:

- Number of products: **25504**
- Volume size: **1.02 TB**
- Time Period: **1995-2017**
- Format: **.rar, .quo, .WI**

- Data transfer to ESA and full processing into Level-1B and Level-1C completed (FDR4AVHRR ESA project).
- Open access to users via ESA systems **Q3 2026**

- Satellites: METOP-A, METOP-B, N12, N14, N15, N16, N17, N18, N19,
- Number of L0/L1A : 287325
- Volume size < 18TB
- Time Period: 1998 - 2024
- Extent: Brazil
- Format: HRPT and others

METOP-B	May 2013-Ma-2024	HRPT	29237
METOP-C	Dec 2019-Mar 2024	HRPT	7924
NOAA_12	Aug 1998-Aug 2007	HRPT	16333
NOAA_14	Aug 1998-Jun 2007	HRPT	10976
NOAA_15	Jul 2001-Aug 2019	HRPT	36816
NOAA_16	Aug 2001-Dec 2014	HRPT	20692
NOAA_17	Jan 2003 - Mar 2013	HRPT	24575
NOAA_18	May 2005 – Mar 2024	HRPT	52626
NOAA_19	Jan 2012 - Mar 2024	HRPT	39791
S1*	---	Unknown	48355



- Data transfer to ESA completed.
- **Next Steps:** full processing into Level-1B and Level-1C, open access to users via ESA systems (FDR4AVHRR ESA project).

* The S1* files are under investigation because they could be single data/calibration for channel.

Pacific Ocean – University of Hawaii



An AVHRR dataset was acquired at the Hawaii University between 1990 and 2000. Data are still on Exabyte tapes, some were extracted covering the islands but accessibility not clear.

NOAA-AVHRR images data & processing

Time series:

9300 images from NOAA-AVHRR 11,12 & 14

July 10, 1991 to Dec. 31, 1999

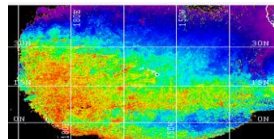
Data received at the SeaSpace HRTP station of the University of Hawaii

Processing:

- internal calibration
- manual navigation to 1-km accuracy
- cloud detection (daytime ch 2; night-time ch 3 – ch 4)
- remapping to a common grid (1.25 km pixel)
- domain of 1250 x 1250 km²
- estimation of multi-channel SST using NOAA coefficients
- estimation of vegetation index (ch 2 - ch 1 / ch 2 + ch1)

Metadata from
the website

- Exabyte tapes and hardware were shipped to ESA/ESRIN and transcription chain is being assembled.
- The ESRIN laboratory has manufactured a special device to roll/unroll tapes at very slow speed and clean their surface from moisture before transcription. Test of this equipment is on-going.
- Content extracted successfully from one tape.
- **Next steps:** transcription of all tapes, full processing into Level-1B and Level-1C, open access to users via ESA systems.



HI HRPT wiki

Topics

- Action Items*
- Blog
- Technical Issues
- HI Catalog
- HI Data
- HI Analysis
- Exabyte info
- Pictures
- Contractors
- HI proposal*

wiki help

University of Hawaii HRPT data rescue wiki

Objectives

From 1990 to 2000, the University of Hawaii operated a receiving station for the NOAA polar orbiter satellites, under joint NASA/ONR/NSF funding, to receive the High Resolution Picture Transmission (HRPT) telemetry, providing Local Area Coverage (LAC) resolution of 1 km for the Advanced Very High Resolution Radiometer (AVHRR).

This station was shutdown in 2000 due to lack of funding to upgrade the SeaSpace software to fix the year-2000 bug in the satellite orbit computation libraries.

About 500 Exabyte tapes holding close to 10,000 satellite passes have been archived and last read in 2002 to extract a subset covering the Hawaii Islands.

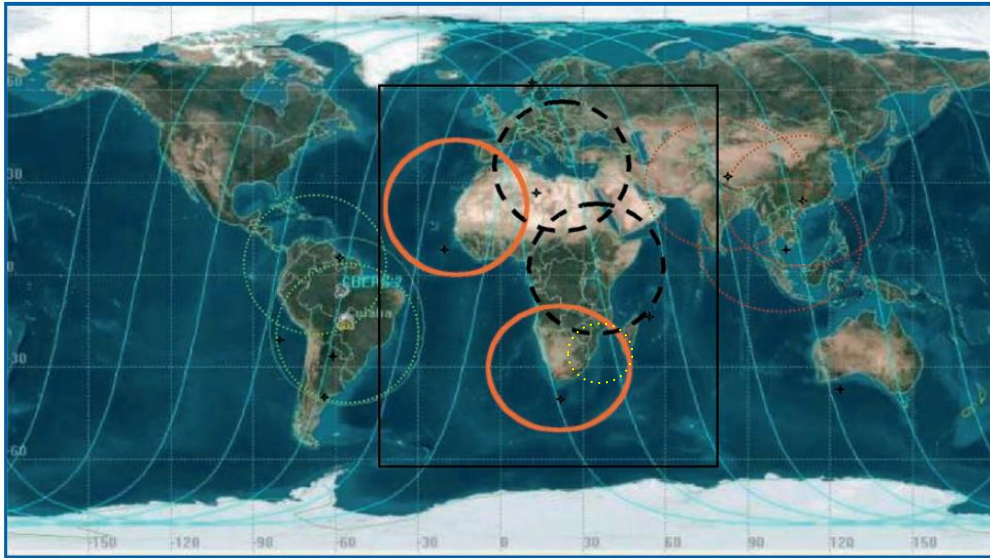
It is proposed to rescue these data and transfer them to HDD for distribution and copy to National Centers. This involves delicate handling of potentially decaying media and tape drives, requiring specific expertise.

Scientific justification

African Coverage



The combination of AVHRR data acquired in Maspalomas (Spain), Matera (Italy), Cairo (Egypt), Niamey (Niger), Hartebeesthoek (South Africa) and Malindi/Nairobi (Kenya) can provide full coverage of Africa;



NOAA provides also access through CLASS to many data over Africa which were recorded onboard and downloaded on US stations.

Running (Green for Brazil, red for China) and planned Ground Stations for Africa. The locations of the ground stations are Canary Islands (Spain), Hartebeesthoek (South Africa), Malindi (Kenya) and Matera (Italy).

1km NOAA AVHRR data received at Hartebeesthoek, South Africa (25°53' S 027°42' E)
and maintained by SAC/SANSA – South African National Space Agency

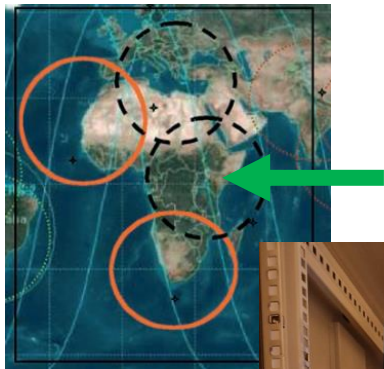
NOAA 9	1985-1987
NOAA 11	1989-1993
NOAA 14	1995-2001
NOAA 16	2001-2005
NOAA 17	2005-2010
NOAA 18	2005-2009

Number of products: 7684
Volume size: 464GB



- Data transfer to ESA and full processing into Level-1B and Level-1C completed (FDR4AVHRR ESA project).
- Open access to users via ESA systems **Q3 2026**

Central Africa (Kenya) - ASI/UniRoma



Data acquired at Malindi station in Kenya from **2001** to **2009** and stored on **44 DLT** tapes. NOAA AVHRR data (Apr 2001 - Apr 2009) received:

- At Malindi station, Agenzia Spaziali Italiana (2°56'18"S 40°12'45"E)



- ESA transcribed the DLTs content successfully.
- Full processing into Level-1B and Level-1C completed (FDR4AVHRR ESA project).
- Open access to users via ESA systems **Q3 2026**

Number of products: 8452
Volume size: 614 GB

China – CMA/NSMC



- AVHRR-receiving stations for global 1km land product (coordinated by USGS): Beijing, Urumqi, Guanzhou
- AVHRR 1-km data covering Himalaya-Hindukush of the period 1981 – 1992 would be of exceptional value
- Data after 2003 available at NSMC

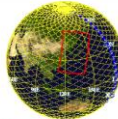
Total: File 75,419 / 7.61TB , 3 Datasets

Format is HRPT

Thumbnail	Product	Type	Satellite	Instr.	Area	Period	Res.	Start	Last
	NOAA-18 AVHRR L1B Data (HRPT) 31,924 files / 3.28TB	L1	NOAA18	AVHRR	ORB	ORBIT	1100M	2005-08-30	2018-03-24
	NOAA-17 AVHRR L1B Data (HRPT) 23,056 files / 2.30TB	L1	NOAA17	AVHRR	ORB	ORBIT	1100M	2003-03-12	2012-05-17
	NOAA-16 AVHRR L1B Data (HRPT) 20,439 files	L1	NOAA16	AVHRR	ORB	ORBIT	1100M	2005-06-16	2014-06-06

<http://satellite.nsmc.org.cn/DataPortal/en/data/dataset.html?dataCategoryCode=L1>

File Name	Product	Time	Size	Link
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180324_2316_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-24 23:16:45 (UTC)	87 MB	
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180324_1236_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-24 12:36:05 (UTC)	79 MB	
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180324_1053_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-24 10:53:53 (UTC)	95 MB	
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180324_0108_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-24 01:08:58 (UTC)	87 MB	
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180323_2328_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-23 23:28:13 (UTC)	92 MB	
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180323_1248_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-23 12:48:24 (UTC)	71 MB	
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180323_1105_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-23 11:05:26 (UTC)	96 MB	
NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180323_0928_1100M_P11B	NOAA-18 AVHRR L1B Data (HRPT)	2018-03-23 09:28:56 (UTC)	51 MB	



Data coverage Selected region

Satellite	NOAA18		
File Name	NA18_AVHRR_HRPT_L1_ORB_MLT_NUL_20180324_2316_1100M_P11B		
Production Name	NOAA-18 AVHRR L1B Data (HRPT)		
Begin Time	2018-03-24 23:16:45 (UTC)	Northeast Latitude	52.1505°N
End Time	2018-03-24 23:28:20 (UTC)	Northeast Longitude	160.9671°E
Create Time	2018-03-24 23:16:00 (UTC)	Southeast Latitude	15.2762°N
Size	91,740,672 Bytes	Southeast Longitude	139.229°E
Orb Number	0	Northwest Latitude	59.3153°N
Ascend/Descend	Descend	Northwest Longitude	116.4395°E
Quality Flag	0	Southwest Latitude	19.5257°N
Scan Line, Actual	4,166	Southwest Longitude	112.8192°E
Scan Line, Total	4,166		

- No products downloading possible via machine-2-machine interface.
- CMA/NSMC has been contacted and invited to present at WGISS-61.

<https://bhoonidhi.nrsc.gov.in/bhoonidhi/index.html>



The screenshot shows the Bhoonidhi website interface. At the top, there are logos for ISRO, Bhoonidhi, and nrsc. Below the logos, there is a section titled "Filters (Optional)" with a list of filters: Open/Priced, Resolution, Imaging Spectrum, Satellite, Sensor Type, Products, and Themes. The Satellite filter is expanded, showing a list of satellites with checkboxes: LandSat-9, NOAA-11, NOAA-12, NOAA-14, NOAA-16, NOAA-17, NOAA-18, NOAA-19, and Novasar-1. To the right of the filters, there is a table of NOAA products. Below the table, there is a section titled "Example over Hymalaya region" with two satellite images. The first image is a grayscale satellite image of a mountainous region. The second image is a color satellite image of the same region, overlaid with a yellow grid. The text "Scene: N11_AVHR_...F_1_5, DOP: 02-S" is visible in the bottom right corner of the second image.

NOAA-11	25-Aug-1994 - 13-Sep-1994	1000 m
NOAA-12	14-Sep-1994 - 4-Nov-1995	1000 m
NOAA-14	3-Apr-1995 - 22-Sep-2010	1000 m
NOAA-16	20-Jun-2001 - 11-Aug-2005	1000 m
NOAA-17	20-Sep-2005 - 13-Apr-2010	1000 m
NOAA-18	1-Oct-2005 - 9-Oct-2009	1000 m
NOAA-19	29-Apr-2010 - 29-Oct-2014	1000 m

Presentation at
WGISS#57

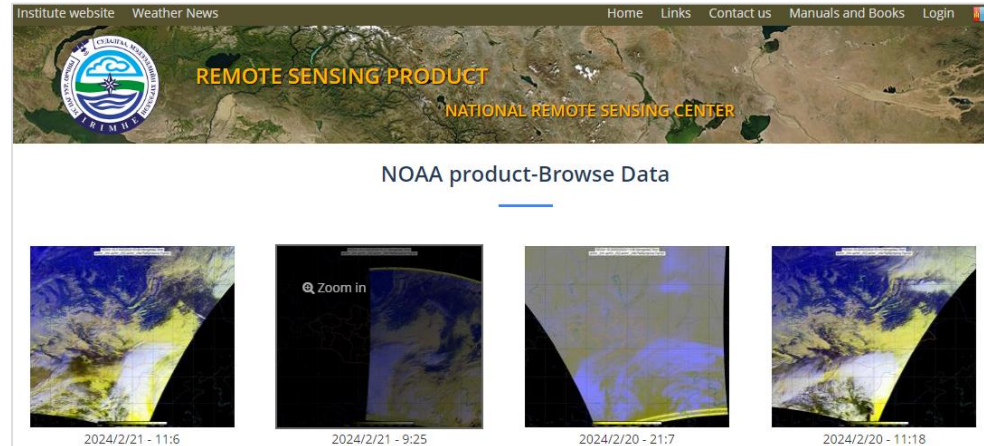
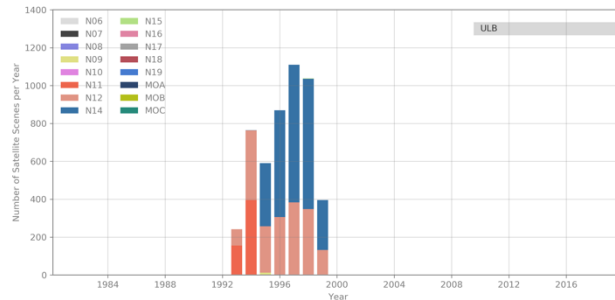
ISRO dedicated Presentation
at WGISS-61

NOAA products are open-data and, after user registration, the products are downloadable.
No products number or volume can be extracted from the web site.

ISRO is processing AVHRR dataset holdings onto L1A products in house. L1B and L1C products will then be generated using the pyGAC software provided by ESA to ISRO.

From UniBern

- AVHRR UBM data
- Source: Remote Sensing Department, Information and Research Institute of Meteorology, Hydrology and Environment, Ulaanbatar, Mongolia
- Number of Scenes: 5.016
- Satellites: N09, N11, N12, N14, N15
- Time Period: 1993 – 1999
- Extent: roughly Lat=[20,70] Lon=[80,120]
- Format: hmf (origin: dat, grid, lut)
- Further info:- UBMx station data were included in the Global Land 1km AVHRR Data Project



Browsing the NOAA data, the acquisitions are from 01/01/2017 up to now.
Downloadable data (raw,L1b,L1c) from 10/12/2023 (<http://icc.mn/>)

ESA established contacts with IRIMHE institute in Mar'25. NOAA-15, NOAA-17 and NOAA-18 HRPT data were transferred to ESA.

Next steps: transcription of all tapes, full processing into Level-1B and Level-1C, open access to users via ESA systems.

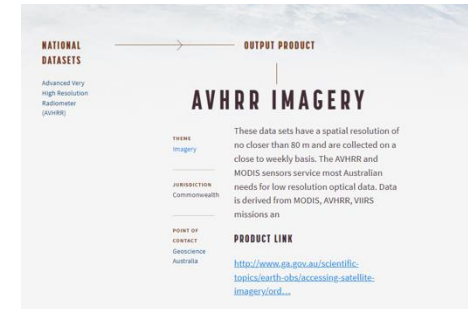
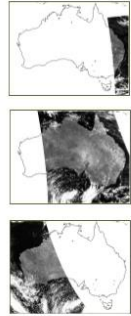
- AVHRR reception based on 6 stations for continuous 1-km data set. Since the early 1990s CSIRO has been merging these separate local data sets to produce a stitched archive with national coverage. The assembly and consolidation of this data set continues within CSIRO today.
- Data availability: 1981 (NOAA-7) onwards covering essentially the greater Australasian region and NZ.

- CSIRO planning to reprocess all data into higher levels and provide access.
- Coordination and cooperation with ESA ongoing (exchange of info and SW) to facilitate reprocessing and harmonization of datasets.
- **Next steps:** CSIR will be invited to make a presentation at WGISS-62

Presentations at WGISS#56/57/58

Reception

Ian Grant, Bureau of Meteorology, Australia

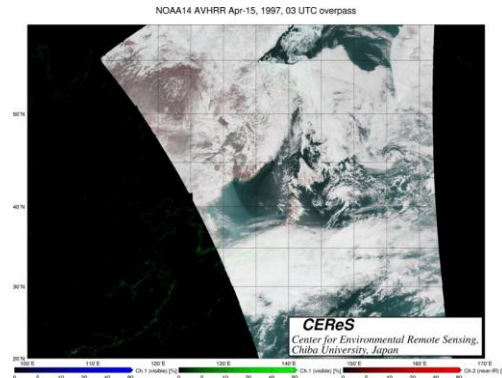


<https://link.fsdf.org.au/datasets/avhrr-imagery>

Chiba University - Japan



Center for Environmental Remote Sensing (CEReS) is a Remote Sensing Center which was established in 1995 at Chiba University (35°37'27"N 140°6'15"E), Japan.



Exchange of information between ESA and Chiba University in 2025 (with JAXA support). Data transfer to ESA **COMPLETED**.
Next steps: full processing into Level-1B and Level-1C, open access to users via ESA systems.

Chiba dedicated presentation at WGISS-61

Additional AVHRR data available at ESA



Three HD with potentially unique AVHRR data made available to ESA from Prof. P.Cornillon (University of Rhode Island).

Region/Acquisition Station	Products
Brazil	283891
East Pacific	7530
HRPT - Peru'	5055
HRPT – South Africa	9721
Wallops Island	109421
West Atlantic	21744
West Pacific	16809
Total	454171

- Data extraction from disks completed at ESA.
- **Next Steps:** full processing into Level-1B and Level-1C, open access to users via ESA systems (FDR4AVHRR ESA project).

- Inventory of existing national/regional HRPT and LAC data archives Version 3.2 has been produced in Q1 2026;
- List of Met offices and other organizations around the world who might have AVHRR LAC data being compiled at ESA;
- ESA will perform a worldwide AVHRR LAC data gap analysis extending the one done for Europe;
- ESA will contact additional organizations who might have AVHRR LAC data to investigate possibility to fill identified gaps.



AVHRR Media Transcription



AVHRR 1 Km data on media



Several hundred heritage media (optical disks, DLTs, Exabytes) with potentially unique AVHRR LAC data identified:

- ESA (Optical Disks) □ TRANSCRIPTION ONGOING
- University of Reading (Optical Disks) □ TRANSCRIPTION ONGOING
- University of Rome / ASI (DLTs) □ TRANSCRIPTION COMPLETED
- University of Hawaii (Exabytes) □ TRANSCRIPTION ONGOING

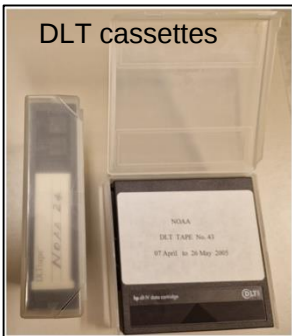
300 CLV DISKS



100 ATG GM-9001/5 DISKS



DLT cassettes



Exabyte tapes

LM 1200 optical Disk 2.4GB





AVHRR Data Processing and Access



1. WGISS members to continue ongoing transcription/reprocessing activities and projects
1. WGISS members to exchange information and SW to facilitate respective activities and pursue harmonization of respective datasets
1. ESA to contact additional organizations with potentially unique AVHRR LAC data
2. WGISS to check status of discoverability of AVHRR datasets worldwide and pursue common entry point through WGISS data discovery and access infrastructure

AVHRR Session follow-on will be held at WGISS#62