

GEONETCAST DATA PRODUCTS



EORIC



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DOCUMENT VERSION CONTROL HISTORY

Use the table below to record the version number and the critical changes made in this document:

Version no.	Date published	Author	Summary of changes to document
1	17.01.2019	Nana Ekow Nkwa Sey	First draft of GEONETCast Data Products
2	13.11.2020	Nana Ekow Nkwa Sey	Updated Data Products
3	23.03.2022	Nana Ekow Nkwa Sey	Updated Data Products



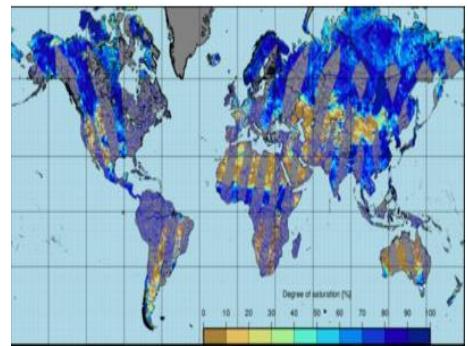
CHANNEL:

A1C - EPS - G

1. ASCAT SOIL MOISTURE AT 12.5 KM SWATH GRID IN NRT - METOP

DESCRIPTION

The Soil Moisture (SM) product is derived from the Advanced SCATterometer (ASCAT) backscatter observations and given in swath orbit geometry (25 km sampling). This SM product provides an estimate of the water content of the 0-5 cm topsoil layer, expressed in degree of saturation between 0 and 100 [%]. The algorithm used to derive this parameter is based on a linear relationship of SM and scatterometer backscatter and uses change detection techniques to eliminate the contributions of vegetation, land cover and surface topography, considered invariant from year to year. Seasonal vegetation effects are modelled by exploiting the multi-angle viewing capabilities of ASCAT. The SM processor has been developed by Vienna University of Technology (TU Wien). Note that some of the data are reprocessed. Please refer to the associated product validation reports or product release notes for further information. [Read more](#)



DATA FORMAT (BUFR)

	W_XX-EUMETSAT-
Format description	Darmstadt,SOUNDING+SATELLITE,<mission>+<instrument>_C_<product-status>_<YYYYMMDDhhmmss>_<orbit>_<service>_<processing-type>_<sampling>_<product-contents>_<processing-level>.bin
	W_XX-EUMETSAT-
Typical file names	Darmstadt,SOUNDING+SATELLITE,METOPA+ASCAT_C_EUMC_20170423010300_54531_eps_o_125_ssm_12.bin
	W_XX-EUMETSAT-
	Darmstadt,SOUNDING+SATELLITE,METOPB+ASCAT_C_EUMP_20170423015100_23845_eps_o_125_ssm_12.bin
Typical file size	3.4 KB
Frequency	480 (per day) (satellite)

TECHNICAL DETAILS

Platform	Metop
Orbit type	LEO

Sensor ASCAT
Sensor Type Scatterometer
Local Folder **Storage** ASCAT_SSM_125

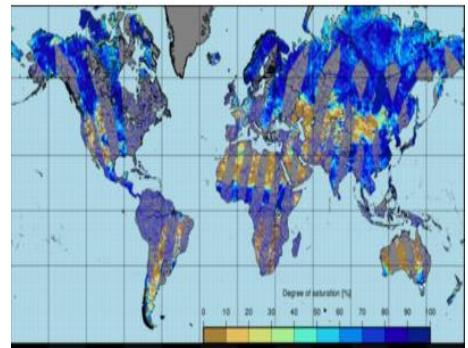
ADDITIONAL INFORMATION

Acronym SOMO12, ASCSMR02, SSM ASCAT-C NRT O12.5, H101, H16, H104
Parameter Level 2 Data, Land, Soil Moisture

2. ASCAT SOIL MOISTURE AT 25 KM SWATH GRID IN NRT - METOP

DESCRIPTION

The Soil Moisture (SM) product is derived from the Advanced SCATterometer (ASCAT) backscatter observations and given in swath orbit geometry (25 km sampling). This SM product provides an estimate of the water content of the 0-5 cm topsoil layer, expressed in degree of saturation between 0 and 100 [%]. The algorithm used to derive this parameter is based on a linear relationship of SM and scatterometer backscatter and uses change detection techniques to eliminate the contributions of vegetation, land cover and surface topography, considered invariant from year to year. Seasonal vegetation effects are modelled by exploiting the multi-angle viewing capabilities of ASCAT. The SM processor has been developed by Vienna University of Technology (TU Wien). Note that some of the data are reprocessed. Please refer to the associated product validation reports or product release notes for further information. [Read more](#)



DATA FORMAT (BUFR)

	W_XX-EUMETSAT-
Format description	Darmstadt,SOUNDING+SATELLITE,<mission>+<instrument>_C_<product-status>_<YYYYMMDDhhmmss>_<orbit>_<service>_<processing-type>_<sampling>_<product-contents>_<processing-level>.bin
	W_XX-EUMETSAT-
	Darmstadt,SOUNDING+SATELLITE,METOPA+ASCAT_C_EUMC_20170423010300
Typical file names	_54531_eps_o_250_ssm_12.bin
	W_XX-EUMETSAT-
	Darmstadt,SOUNDING+SATELLITE,METOPB+ASCAT_C_EUMP_20170423015100
	_23845_eps_o_250_ssm_12.bin
Typical file size	60 KB
Frequency	480 (per day) (satellite)

TECHNICAL DETAILS

Platform	Metop
Orbit type	LEO

Sensor	ASCAT
Sensor Type	Scatterometer
Local Storage Folder	ASCAT_SSM_250

ADDITIONAL INFORMATION

Acronym	ASCSMO02, H102, H103, SOMO25, H105, SSM ASCAT-C NRT O25
Parameter	Level 2 Data, Land, Soil Moisture

ATOVS SOUNDING PRODUCTS - NOAA

DESCRIPTION

The Advanced TIROS Operational Sounder (ATOVS), in combination with the Advanced Very High-Resolution Radiometer (AVHRR), covers the visible, infrared and microwave spectral regions and thus has a wide range of applications: supplementing the retrieval of vertical temperature and humidity profiles, cloud and precipitation monitoring, sea ice and snow cover detection as well as surface temperature determination. ATOVS is composed of the Advanced Microwave Sounding Unit A, the Microwave Humidity Sounder (MHS) and the High-Resolution Infrared Radiation Sounder (HIRS/4). [Read more](#)



DATA FORMAT (BUFR)

Format description	W_XX-EUMETSAT-Darmstadt,SOUNDING+SATELLITE,<mission>+<instrument>_C_<product-status>_<YYYYMMDDhhmmss>_<orbit>_<service>_<processing-type>_<processing-level>.bin
Typical file names	W_XX-EUMETSAT-Darmstadt,SOUNDING+SATELLITE,NOAA19+ATOVS_C_EUMP_20170427145115_42352_eps_o_l2.bin
Typical file size	200.0 KB
Frequency	480 (per day)

TECHNICAL DETAILS

Platform	NOAA
Orbit type	LEO
Sensor	HIRS, MHS, AMSU-A
Sensor Type	Sounder
Local Storage Folder	NOAA_ATOVS

ADDITIONAL INFORMATION

Acronym ATOVSL2, ATOSND02

Parameter Temperature, Atmosphere, Humidity



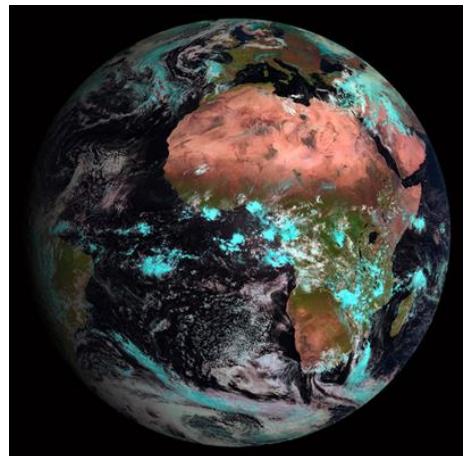
CHANNEL:

A1C – GEO – 3

1. HIGH RATE SEVIRI LEVEL 1.5 IMAGE DATA – MSG

DESCRIPTION

Rectified (level1.5) Meteosat SEVIRI image data. The data is transmitted as High-Rate transmissions in 12 spectral channels. Level 1.5 image data corresponds to the geolocated and radiometrically pre-processed image data, ready for further processing, e.g., the extraction of meteorological products. Any spacecraft specific effects have been removed, and in particular, linearisation and equalisation of the image radiometry has been performed for all SEVIRI channels. The on-board blackbody data has been processed. Both radiometric and geometric quality control information is included. Images are made available with different timeliness according to the latency: quarter-hourly images with a latency of more than 3 hours and hourly images if latency is less than 3 hours (for a total of 87 images per day). To enhance the perception for areas which are on the night side of the Earth a different mapping with increased contrast is applied for IR3.9 product. The greyscale mapping is based on the EBBT which allows to map the ranges 200 K to 300 K for the night and 250 K to 330 K for the day.



[Read more](#)

DATA FORMAT (HRIT)

H-000-MSG<satelliteID>__-MSG<satelliteID>_IODC__-_____ -PRO_____-
<YYYYMMDDhhmm>-__H-000-MSG<satelliteID>__-MSG<satelliteID>_IODC__-
<band>__-0000<segment-number>__-<YYYYMMDDhhmm>-C_H-000-
MSG<satelliteID>__-MSG<satelliteID>_IODC__-_____ -EPI_____-
<YYYYMMDDhhmm>-__<band>is (HRV __, VIS006, VIS008, IR_016, IR_039,
WV_062, WV_073, IR_087, IR_097, IR_108, IR_120, IR_134)<segment-number> is
(01,02,03,04,05,06,07,08) for all the band except the 'HRV' (in the case of 'HRV',
<segment-number> is (01,02,03,04,05,06,07,08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18,
19, 20, 21,
22, 23, 24))

Filename convention

H-000-MSG1__-MSG1_IODC__IR_016__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-WV_062__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-IR_108__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-IR_134__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-_____ -PRO_____-201706121600-__
H-000-MSG1__-MSG1_IODC__-VIS006__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-VIS008__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-IR_097__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-WV_073__-000001__-201706121600-C_

Typical file names

H-000-MSG1__-MSG1_IODC__-IR_039__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-_____ -EPI_____ -201706121600-__
H-000-MSG1__-MSG1_IODC__-HRV_____ -000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-IR_087__-000001__-201706121600-C_
H-000-MSG1__-MSG1_IODC__-IR_120__-000001__-201706121600-C_22, 23,
24))

Typical file size 1.0 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_HRS15

ADDITIONAL INFORMATION

Acronym MSG15, HRSEVIRI

Parameter Atmosphere, Ocean, Level 1 Data, Land

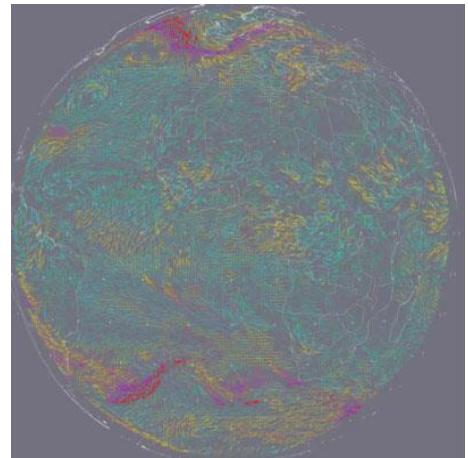


CHANNEL:
A1C – GEO – 4

1. ATMOSPHERIC MOTION VECTORS - MSG - 0 DEGREE

DESCRIPTION

Atmospheric Motion Vectors at all heights below the tropopause, derived from 5 channels (Visual 0.8, Water Vapor 6.2, Water Vapor 7.3, Infrared 10.8 and the High-Resolution Visual channel), all combined into one product. Vectors are derived by tracking the motion of clouds and other atmospheric constituents as water vapor patterns. The initial resolution is a 24 pixels grid (HRV 12 high res. pixels), but as the algorithm tries to adjust the position to the point of the maximum contrast (typically cloud edges), the end resolution varies. The height assignment of the AMVs is calculated using the Cross-Correlation Contribution (CCC) function to determine the pixels that contribute the most to the vectors. An AMV product contains between 30 000 and 50 000 vectors depending of the time of the day, and uses SEVERI image data from Meteosat-8 and onwards. [Read more](#)



DATA FORMAT (BUFR)

Filename convention L-000-MSG<satelliteID>__-MPEF_____-<product>_____-PRO_____-<YYYYMMDDhhmm>-__.
L-000-MSG<satelliteID>__-MPEF_____-<product>_____-00000<segment-number>__-<YYYYMMDDhhmm>-__

Typical file names L-000-MSG3__-MPEF_____ -AMV_____ -000001__ -201705222245-__
L-000-MSG3__-MPEF_____ -AMV_____ -PRO_____ -201705222245-__

Typical file size 2.5 MB

Frequency 24 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

**Local Storage
Folder** MSG_AMV

ADDITIONAL INFORMATION

Acronym MSGAMVE, AMV

Parameter Wind, Atmosphere

2. ALL-SKY RADIANCE – MSG – 0 DEGREE

DESCRIPTION

The All-Sky Radiances (ASR) product contains information on mean brightness temperatures from all thermal (e.g., infrared and water vapor) channels. It includes both clear and cloudy sky brightness temperatures.

Applications and Users: Numerical weather prediction. [Read more](#)



DATA FORMAT (BUFR)

Filename convention	L-000-MSG<satelliteID>__-MPEF_____-<product>_____-PRO_____-<YYYYMMDDhhmm>-__, L-000-MSG<satelliteID>__-MPEF_____-<product>_____-00000<segment-number>__-<YYYYMMDDhhmm>-__
Typical file names	L-000-MSG3__-MPEF_____ -ASR_____ -000001__ -201705222345-__ L-000-MSG3__-MPEF_____ -ASR_____ -PRO_____ -201705222345-__
Typical file size	3.6 MB
Frequency	24 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_ASR

ADDITIONAL INFORMATION

Acronym	ASR, MSGASRE
Parameter	Atmosphere, Radiation

3. CONVECTIVE RAIN RATE - MSG - 0 DEGREE

DESCRIPTION

The Convective Rain Rate product is a geostationary meteorological product for nowcasting applications. It is produced with NWC-SAF Geo 2016 software package. [Read more](#)



DATA FORMAT (NETCDF4)

Filename convention	S_NWC_CRR_MSG[2,3,4]_global-VISIR_YYYYMMDDhhmmssZ.nc
Typical file names	S_NWC_CRR_MSG4_global-VISIR_20190118T131500Z.nc
Typical file size	3.3 MB
Frequency	96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_CRR

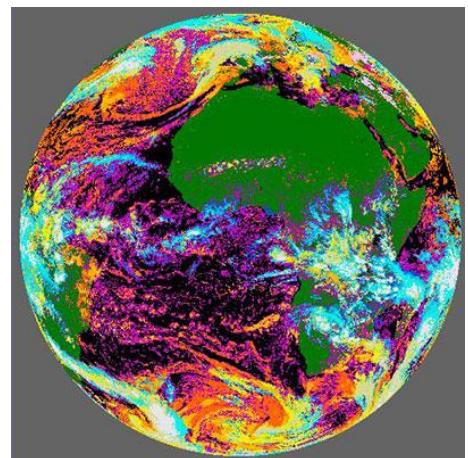
ADDITIONAL INFORMATION

Acronym	GNWCCRR
Parameter	Precipitation, Nowcasting

4. GEOSTATIONARY NOWCASTING CLOUD TYPE - MSG - 0 DEGREE

DESCRIPTION

Cloud classification produced with NWC-SAF Geo software package, PGE02. [Read more](#)



DATA FORMAT (HDF5)

Filename convention SAFNWC_<satellite>_<product>_<YYYYMMDDhhmm>_<area>_____.h5

Typical file names SAFNWC_MSG3_CT_201708111515_FES_____.h5

Typical file size 5 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_CCT

ADDITIONAL INFORMATION

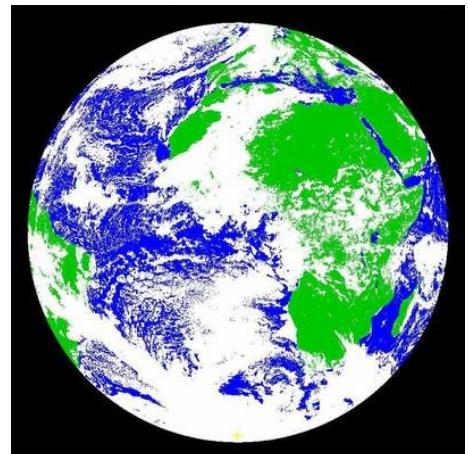
Acronym GNWCCT

Parameter Atmosphere, Cloud

5. CLOUD MASK - MSG - 0 DEGREE

DESCRIPTION

The Cloud Mask product describes the scene type (either 'clear' or 'cloudy') on a pixel level. Each pixel is classified as one of the following four types: clear sky over water, clear sky over land, cloud, or not processed (off Earth disc). Applications & Uses: The main use is in support of Nowcasting applications, where it frequently serves as a basis for other cloud products, and the remote sensing of continental and ocean surfaces. [Read more](#)



DATA FORMAT (GRIB2)

Filename convention L-000-MSG<satelliteID>____-MPEF_____<product>____-PRO____-<YYYYMMDDhhmm>-__
L-000-MSG<satelliteID>____-MPEF_____<product>____-00000<segment-number>____-<YYYYMMDDhhmm>-__

Typical file names
 L-000-MSG3____-MPEF_____CLM_____000004____-201705220400-__
 L-000-MSG3____-MPEF_____CLM_____PRO_____201705220400-__
 L-000-MSG3____-MPEF_____CLM_____000005____-201705220400-__
 L-000-MSG3____-MPEF_____CLM_____000003____-201705220400-__
 L-000-MSG3____-MPEF_____CLM_____000006____-201705220400-__
 L-000-MSG3____-MPEF_____CLM_____000001____-201705220400-__
 L-000-MSG3____-MPEF_____CLM_____000002____-201705220400-__

Typical file size 3.45 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_CLM

ADDITIONAL INFORMATION

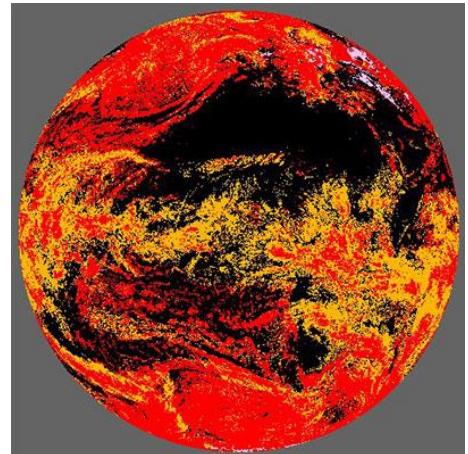
Acronym MSGCLMK, CLM

Parameter Atmosphere, Cloud

6. GEOSTATIONARY NOWCASTING CLOUD MASK - MSG - 0 DEGREE

DESCRIPTION

Cloud mask including dust flag and volcanic ash flag produced with NWC-SAF Geo software package. [Read more](#)



DATA FORMAT (NETCDF4)

Filename convention	SAFNWC_<satellite>_<product>_<YYYYMMDDhhmm>_<area>_____ .h5
Typical file names	SAFNWC_MSG3_CMa_201708111500_FES_____.h5
Typical file size	5 MB
Frequency	96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_CMa

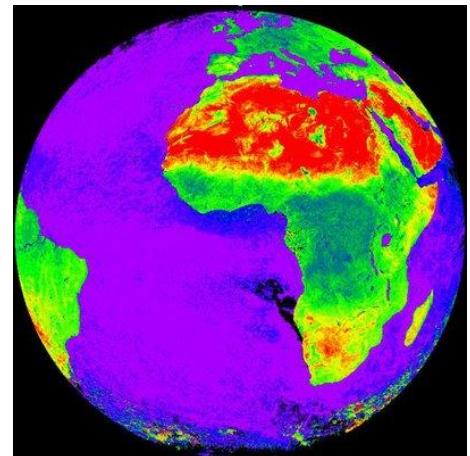
ADDITIONAL INFORMATION

Acronym	GNWCCMa
Parameter	Atmosphere, Cloud

7. CLEAR SKY REFLECTANCE MAP - MSG – 0 DEGREE

DESCRIPTION

Reflectances from the four MSG solar channels. Seven-day average of cloud-free pixels in the 12:00 UTC images. Applications and Users: Used to perform cloud masking with visible channels. Also, information source for climate and land surface applications. The product is available on request only. In addition to the daily 12:00 UTC images, the Data Centre offers also some products generated at different times of day. These 6 additional products are provided once a week (Wednesdays) in the time range between 06:00 and 18:00 UTC. [Read more](#)



DATA FORMAT (GRIB2)

Filename convention	L-000-MSG<satelliteID>_____-MPEF_____-<product>_____ -PRO_____ -<YYYYMMDDhhmm>-__,
	L-000-MSG<satelliteID>_____-MPEF_____ -<product>_____-0000<segment-number>_____-<YYYYMMDDhhmm>-__ where <segment-number> = (01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19)
Typical file names	L-000-MSG3_____-MPEF_____ -CRM_____ -000001_____-201705221200_____ L-000-MSG3_____-MPEF_____ -CRM_____ -000002_____-201705221200_____ L-000-MSG3_____-MPEF_____ -CRM_____ -PRO_____ -201705221200____
Typical file size	20.0 MB
Frequency	1 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_CRM

ADDITIONAL INFORMATION

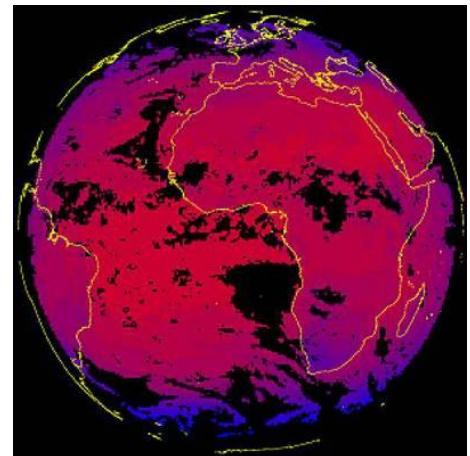
Acronym MSGCRMN, CRM

Parameter Atmosphere, Cloud, Radiation

8. CLEAR SKY RADIANCES - MSG - 0 DEGREE

DESCRIPTION

The Clear-Sky Radiances (CSR) product is a subset of the information derived during the Scenes Analysis processing. The product provides the brightness temperature for a subset of the MSG channels averaged over all pixels within a processing segment which have been identified as clear, except for channel WV6.2 where the CSR is also derived for areas containing low-level clouds. The final CSR product is BUFR encoded at every third quarter of the hour (e.g., 00:45, 01:45 ...) and distributed to the users via EUMETCAST and GTS. It is also stored in the EUMETSAT Data Centre. Applications and Users: Numerical weather prediction. [Read more](#)



DATA FORMAT (BUFR)

Filename convention	L-000-MSG<satelliteID>____-MPEF_____-<product>_____ -PRO_____ -<YYYYMMDDhhmm>-__, L-000-MSG<satelliteID>____-MPEF_____ -<product>_____-00000<segment-number>____-<YYYYMMDDhhmm>-__
Typical file names	L-000-MSG3____-MPEF_____ -CSR_____ -000002____-201705222345-__ L-000-MSG3____-MPEF_____ -CSR_____ -000001____-201705222345-__ L-000-MSG3____-MPEF_____ -CSR_____ -000003____-201705222345-__ L-000-MSG3____-MPEF_____ -CSR_____ -PRO_____ -201705222345-__

Typical file size 3.0 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_CSR

ADDITIONAL INFORMATION

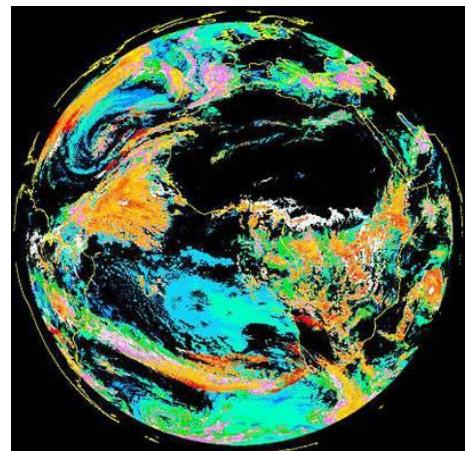
Acronym MSGCSKR, CSR

Parameter Atmosphere, Radiation

9. CLOUD TOP HEIGHT - MSG - 0 DEGREE

DESCRIPTION

The product indicates the height of highest cloud. Based on a subset of the information derived during Scenes and Cloud Analysis, but also makes use of other external meteorological data. Applications and Users: Aviation meteorology. [Read more](#)



DATA FORMAT (GRIB2)

Filename convention	L-000-MSG<satelliteID>__-MPEF_____<product>_____-PRO_____-<YYYYMMDDhhmm>-__, L-000-MSG<satelliteID>__-MPEF_____<product>_____-00000<segment-number>__-<YYYYMMDDhhmm>-__
Typical file names	L-000-MSG3__-MPEF_____ -CTH_____-PRO_____-201705222315__ L-000-MSG3__-MPEF_____ -CTH_____-000001__-201705222315__ L-000-MSG3__-MPEF_____ -CTH_____-000002__-201705222315__

Typical file size 800 KB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_CTH

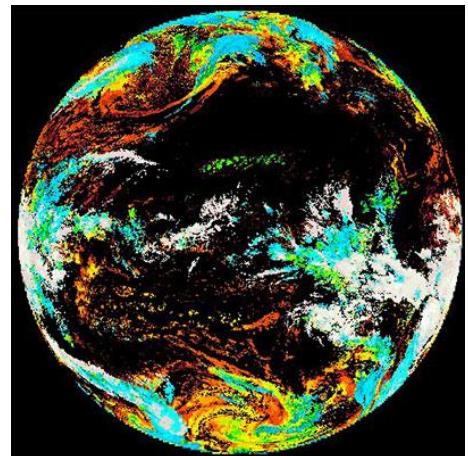
ADDITIONAL INFORMATION

Acronym	MSGCLTH, CTH
Parameter	Atmosphere, Cloud

10. GEOSTATIONARY NOWCASTING CLOUD TOP TEMPERATURE AND HEIGHT - MSG - 0 DEGREE

DESCRIPTION

Cloud top temperature, height, and pressure produced with NWC-SAF Geo software package, PGE03. [Read more](#)



DATA FORMAT (HDF5)

Filename convention	SAFNWC_<satellite>_<product>_<YYYYMMDDhhmm>_<area>_____.h5
Typical file names	SAFNWC_MSG3_CTH_201708111515_FES_____.h5
Typical file size	11.5 MB
Frequency	96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_CTH

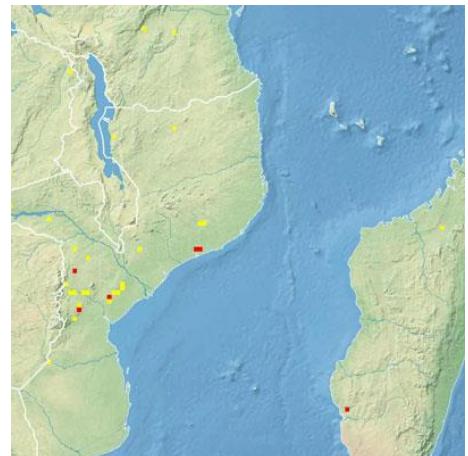
ADDITIONAL INFORMATION

Acronym	GNWCCTH
Parameter	Atmosphere, Cloud

11. ACTIVE FIRE MONITORING (CAP) - MSG - 0 DEGREE

DESCRIPTION

The active fire monitoring product is a fire detection product indicating the presence of fire within a pixel. The underlying concept of the algorithm takes advantage of the fact that SEVIRI channel IR3.9 is very sensitive to hot spots which are caused by fires. The algorithm distinguishes between potential fire and active fire. Applications and Users: Fire detection and monitoring. This product is available in CAP (Common Alert Protocol) format. The CAP formatted product is only disseminated when a fire/potential fire is detected in any given repeat cycle. [Read more](#)



DATA FORMAT (CAP)

Filename convention	L-000-MSG<satelliteID>__-MPEF_____-<product>____-PRO_____-<YYYYMMDDhhmm>-__,L-000-MSG<satelliteID>__-MPEF_____-<product>____-00000<segment-number>__-YYYYMMDDhhmm>-__
Typical file names	L-000-MSG3__-MPEF_____ -FIRC____-000001__-201705222315-__ L-000-MSG3__-MPEF_____ -FIRC____-PRO____-201705222315-__

Typical file size 30.0 KB

Frequency maximum 96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_FIRC

ADDITIONAL INFORMATION

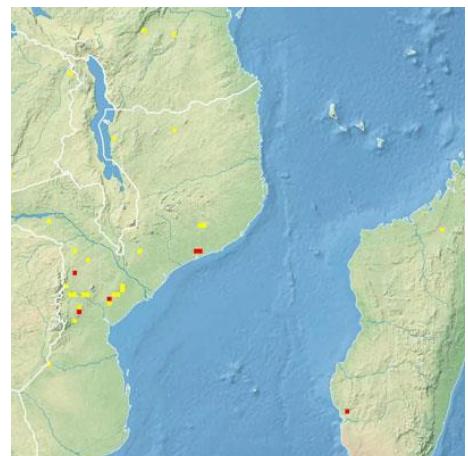
Acronym FIRC, MSGFIRC

Parameter Fire, Land

12. ACTIVE FIRE MONITORING (GRIB) - MSG - 0 DEGREE

DESCRIPTION

The active fire monitoring product is a fire detection product indicating the presence of fire within a pixel. The underlying concept of the algorithm takes advantage of the fact that SEVIRI channel IR3.9 is very sensitive to hot spots which are caused by fires. The algorithm distinguishes between potential fire and active fire. Applications and Users: Fire detection and monitoring. [Read more](#)



DATA FORMAT (BUFR)

	L-000-MSG<satelliteID>__-MPEF_____-<product>____-PRO_____-
Filename convention	<YYYYMMDDhhmm>-__, L-000-MSG<satelliteID>__-MPEF_____-<product>____-00000<segment-number>__-YYYYMMDDhhmm>-__
Typical file names	L-000-MSG3__-MPEF_____ -FIRG____-PRO____-201705221945-__ L-000-MSG3__-MPEF_____ -FIRG____-000001__-201705221945-__
Typical file size	20 KB
Frequency	96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_FIRG

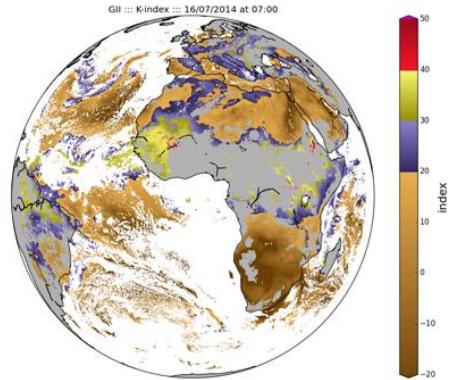
ADDITIONAL INFORMATION

Acronym	MSGFIRG, FIR
Parameter	Fire, Land

13. GLOBAL INSTABILITY INDEX - MSG - 0 DEGREE

DESCRIPTION

Atmospheric air mass instability in cloud free areas. The product contains several stability parameters as well as information about the precipitable water contents of the atmosphere. For more information on the parameters and algorithms refer to the product guide in the resources. The algorithm is a physical retrieval scheme developed at EUMETSAT. Applications and Users: Nowcasting and short-term forecasting (up to 12 hours). Resolution is 3x3 pixels. [Read more](#)



DATA FORMAT (BUFR)

Typical file names L-000-MSG3__-MPEF_____ -GII_____ -000001__ -201201221145-__

Typical file size 10.0 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_GII

ADDITIONAL INFORMATION

Acronym	MSGGIIN, GII
Parameter	Precipitation, Temperature, Atmosphere, Cloud, Humidity

14. RAPIDLY DEVELOPING THUNDERSTORMS - MSG - 0 DEGREE

DESCRIPTION

Rapidly Developing Thunderstorms - Convection Warning product is a geostationary meteorological product for nowcasting applications. It is produced with the NWC-SAF Geo 2016 software package. [Read more](#)



DATA FORMAT (HDF5)

Filename convention	S_NWC_RDT-CW_MSG[2,3,4]_global-VISIR_YYYYMMDDhhmmssZ[_015,030,045,060].nc
Typical file names	S_NWC_RDT-CW_MSG4_global-VISIR_20190118T131500Z.nc S_NWC_RDT-CW_MSG4_global-VISIR_20190118T131500Z_045.nc
Typical file size	800 KB
Frequency	480 (per day) (5 per RC)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_RDT

ADDITIONAL INFORMATION

Acronym	GNWCRDT
Parameter	Forecasts, Precipitation, Nowcasting

15. VOLCANIC ASH DETECTION (CAP) - MSG - 0 DEGREE

DESCRIPTION

The ash detection is based on a reversed split window technique, supported by tests in the other IR channels and two VIS channels. The CAP formatted product provides an area defined by a polygon containing the ash mass loading as main parameter. The generation and dissemination shall only be activated after the reception of an alert from the VAAC-London. Applications & Users: Support to ash monitoring, aviation. Current users are the Volcanic Ash Advisory Centre and Member States National Meteorological Services (NMS). Used input data include: the reflectances in the VIS0.6 and the IR3.9 channels; the brightness temperatures in the IR3.9, IR8.7, IR10.8 and IR12:0 channels and the solar zenith angle on pixel level. [Read more](#)



DATA FORMAT (CAP)

Filename convention	L-000-MSG<satelliteID>__-MPEF_____-<product>____-PRO_____-<YYYYMMDDhhmm>-__L-000-MSG<satelliteID>__-MPEF_____-<product>____-00000<segment-number>__-YYYYMMDDhhmm>-__
Typical file names	L-000-MSG3__-MPEF_____ -VOLC____-000001__-201606161400__ L-000-MSG3__-MPEF_____ -VOLC____-PRO____-201606161400__

Typical file size 10.0 KB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_VOLC

ADDITIONAL INFORMATION

Acronym VOL, MSGVOLC

Parameter Aerosol, Atmosphere

16. VOLCANIC ASH DETECTION (NETCDF) - MSG - 0 DEGREE

DESCRIPTION

The ash detection is based on a reversed split window technique, supported by tests in the other IR channels and two VIS channels. The product is disseminated in netCDF classic format, that contains as main parameters the ash mass loading and the mean ash particle size. Note that the netCDF files have been compressed with bzip2 and before uncompressed them, the 103 bytes LRIT header must first be removed. After decompression, any reader compatible with netCDF classic format (also known as netCDF-3), written with netCDF library version 4.1.1, can be used to read the data. The navigation data is not supplied within the netCDF product but can be found in the online resources. [Read more](#)



DATA FORMAT (NETCDF4)

Filename convention L-000-MSG<satelliteID>__-MPEF_____<product>____-PRO____-<YYYYMMDDhhmm>-__,
L-000-MSG<satelliteID>__-MPEF_____<product>____-00000<segment-number>__-YYYYMMDDhhmm>-__

Typical file names L-000-MSG3__-MPEF_____VOLE____-PRO____-201701010700__
L-000-MSG3__-MPEF_____VOLE____-000001__-201701010700__

Typical file size 70.0 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_VOLE

ADDITIONAL INFORMATION

Acronym MSGVOLE, VOLE

Parameter Aerosol, Atmosphere

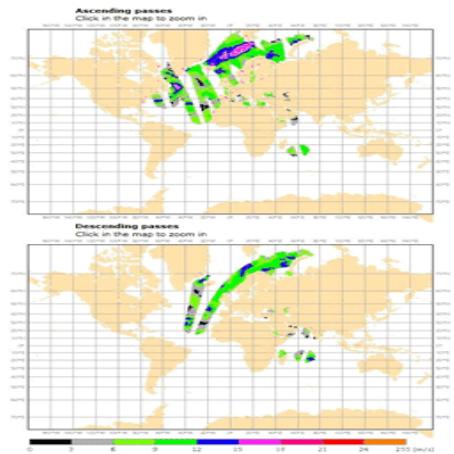


CHANNEL:
A1C – RDS – 1

1. ASCAT COASTAL WINDS AT 12.5 KM - METOP - REGIONAL DATA SERVICE

DESCRIPTION

Equivalent neutral 10m winds over the global oceans, with specific sampling to provide as many observations as possible near the coasts. The data is acquired from the EUMETSAT Advanced Retransmission Service (EARS) network of Direct Readout stations. Additionally, from Metop-A the last 30 minutes of ASCAT data in the main Svalbard data dump are processed. All data are processed jointly by the EARS ground system and the Koningklijk Nederland's Meteorologisch Instituut (KNMI) within 45 minutes. This product is intended for assimilation in Regional Numerical Weather prediction models, where high timeliness is very important in order to address the short model cut-off times. [Read more](#)



DATA FORMAT (BUFR)

Filename convention <instrument>_<YYYYMMDD>_<hhmmss>_<satellite>_<orbit>_<service>_<processing-type>_<sampling>(_<station>)_<product-contents>.l2_bufr

Typical file names ascat_20170422_172728_metopb_23840_ear_o_coa_kan_ovw.l2_bufr

Typical file size 1.8 MB

Frequency ~36 (per day)

TECHNICAL DETAILS

Platform Metop

Orbit type LEO

Sensor ASCAT

Sensor Type Scatterometer

Local Storage Folder Metop_ASCAT_CW

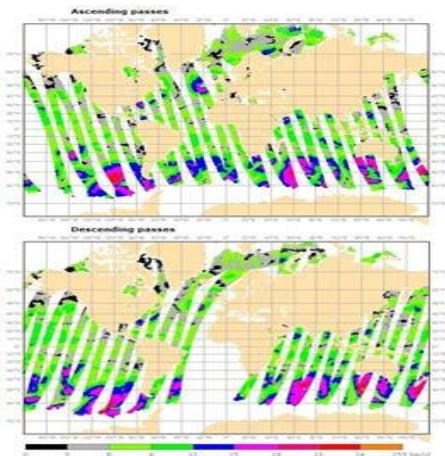
ADDITIONAL INFORMATION

Acronym	EARS-ASCAT
Parameter	Atmosphere, Ocean Surface Wind, Ocean, Radar Backscatter NRCS

2. ASCAT OCEAN SURFACE WINDS AT 25 KM NODE GRID - METOP - REGIONAL DATA SERVICE

DESCRIPTION

The ASCAT Wind Product contains measurements of the wind direction and wind speed at 10 m above the sea surface. The measurements are obtained through the processing of scatterometer data originating from the ASCAT instrument on EUMETSAT's Metop satellite, as described in the ASCAT Wind Product User Manual. In the context of this regional service, the data is acquired both from the last 30 minutes of the ASCAT. Metop main Svalbard dump, as well as from the EUMETSAT Advanced Retransmission Service (EARS) network of Direct Readout stations in Europe and the middle East. All data are processed jointly by the EARS ground system and the Koningklijk Nederlands Meteorologisch Instituut (KNMI) within 45 minutes. This product is intended for assimilation in Regional Numerical Weather prediction models, where high timeliness is very important in order to address the short model cut-off times. [Read more](#)



DATA FORMAT (BUFR)

Filename convention <instrument>_<YYYYMMDD>_<hhmmss>_<satellite>_<orbit>_<service>_<processing-type>_<sampling>(_<station>)_<product-contents>.l2_bufr

Typical file names ascat_20170422_225948_metopa_54530_ear_o_250_mas_ovw.l2_bufr
ascat_20170422_225300_metopa_54512_ear_o_250_ovw.l2_bufr

Typical file size 0.47 MB

Frequency ~36 (per day)

TECHNICAL DETAILS

Platform Metop

Orbit type LEO

Sensor ASCAT

Sensor Type Scatterometer

**Local Storage
Folder** Metop_ASCAT_OSW

ADDITIONAL INFORMATION

Acronym EARS-ASCAT25

Parameter Atmosphere, Ocean Surface Wind, Ocean, Radar Backscatter NRCS



CHANNEL:

A1C – SAF – 1

1. GLOBAL SEA ICE EMISSIVITY - DMSP

DESCRIPTION

The microwave sea ice surface emissivity for solving the radiative transfer equation for top of the atmosphere up-welling Earth emission.

[Read more](#)



DATA FORMAT (NETCDF)

Filename convention	S-OSI_-DMI_-DMSP-GL_<NH SH>_EMIS__-<date>.nc.gz
Typical file names	S-OSI_-DMI_-DMSP-GL_SH_EMIS__-201310061200Z.nc.gz S-OSI_-DMI_-DMSP-GL_NH_EMIS__-201310061200Z.nc.gz
Typical file size	6.5 MB
Frequency	1 NH and 1 SH per day

TECHNICAL DETAILS

Platform	DSMP
Orbit type	LEO
Sensor	SSMIS
Sensor Type	Imager
Local Storage Folder	DMSP_GL

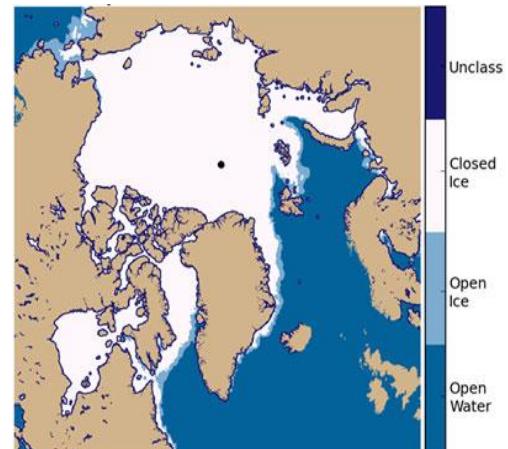
ADDITIONAL INFORMATION

Acronym	OSI-404-a, OSI-404, OSIMGB, SISE50
Parameter	Atmosphere, Radiation, Ocean, Level 2 Data, Sea Ice

2. GLOBAL SEA ICE EDGE (NETCDF) –MULTIMISSION

DESCRIPTION

The Sea Ice Edge product is a classification product (open water/open ice/closed ice) and covers both the Northern and Southern Hemisphere. The sea ice edge is derived from passive microwave and active microwave sensors using a multi sensor methods with a Bayesian approach to combine the different sensors. [Read more](#)



DATA FORMAT (NETCDF)

Typical file names S-OSI_-NOR_-MULT-GL_NH_EDGE_n_201705091200Z.nc.gz
S-OSI_-NOR_-MULT-GL_SH_EDGE_n_201705091200Z.nc.gz

Typical file size 4.5 MB

Frequency 1 NH file (per day), 1 SH file (per day)

TECHNICAL DETAILS

Platform Metop, DMSP, GCOM

Orbit type LEO

Sensor ASCAT, SSMIS, AMSR-2

Sensor Type Imager, Scatterometer

Local Storage Folder GL_OSI

ADDITIONAL INFORMATION

Acronym OSI-402-c, OSIEDGBN

Parameter Level 3 Data, Ocean, Sea Ice

3. ASCAT WINDS AND SOIL MOISTURE AT 25 KM SWATH GRID - METOP

DESCRIPTION

This ASCAT Multi-parameter product contains surface wind vectors over ocean and soil moisture index over land. Additionally, the backscatter values involved in the retrieval of the geophysical parameters above are also included, as well as several quality flags to facilitate the use of the data. For NWP users this product is provided in BUFR format. The netCDF version of this product contains Winds ONLY. For users interested in either ASCAT backscatter, wind or soil moisture index data in other formats, please refer to the relevant product entries available for the specific parameters. Finally, note that although the OSI SAF is identified as the originating centre for this product, it is not responsible for the processing of soil moisture index values, which is currently carried out at EUMETSAT. Better than using this archived NRT product, please use the reprocessed ASCAT winds data records (EO:EUM:DAT:METOP:OSI-150-A, EO:EUM:DAT:METOP:OSI-150-B). [Read more](#)



DATA FORMAT (BUFR)

Filename convention	<instrument>_<YYYYMMDD>_<hhmmss>_<mission>_<orbit>_<service>_<processing-type>_<sampling>.l2_bufr
Typical file names	ascat_20170421_230900_metopa_54515_eps_o_250.l2_bufr ascat_20170422_222100_metopb_23843_eps_o_250.l2_bufr ascat_20191106_224200_metopc_05184_eps_o_250.l2_bufr
Typical file size	55.0 KB
Frequency	480 (per day)

TECHNICAL DETAILS

Platform	Metop
Orbit type	LEO
Sensor	ASCAT

Sensor Type Scatterometer

Local Storage Folder Metop_ OAS025

ADDITIONAL INFORMATION

Acronym ASCAT25, OSI-102, OSI-102-c, OSI-102-b, OAS025

Parameter Ocean Surface Wind, Ocean, Level 2 Data, Radar Backscatter NRCS, Land, Soil Moisture

4. MEDIUM RESOLUTION SEA ICE DRIFT - METOP

DESCRIPTION

Medium Resolution Sea Ice Drift product covers The Northern Hemisphere (NH) above 40 Deg. N. Ice motion vectors with a time span of approximately 24 hours are estimated by a maximum cross-correlation method (MCC) on pairs of satellite images. The ice drift product is based on swath data from the AVHRR instrument onboard the Metop-A satellite. VISible data are used to determine ice motion during summer (MJJA), and Thermal InfraRed data are used from September to April. Valid drift data are only available in cloud free areas, due to cloud opacity of VIS and TIR data. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention S-OSI_-DMI_-MTOP-<hemisphere>_MRSIDRIFT-<YYYYMMDDhhmm>Z.nc.gz

Typical file names S-OSI_-DMI_-MTOP-NH_MRSIDRIFT-201708231719Z.nc.gz

Typical file size 1.2 MB

Frequency 2 (per day)

TECHNICAL DETAILS

Platform Metop

Orbit type LEO

Sensor AVHRR

Sensor Type Radiometer

Local Storage Folder Metop_OMRSIDRN

ADDITIONAL INFORMATION

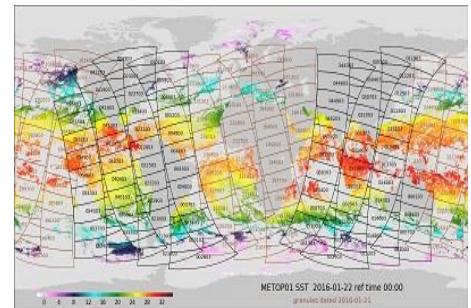
Acronym NH MR SID, OMRSIDRN

Parameter Level 3 Data, Ocean, Sea Ice

5. FULL RESOLUTION L2P AVHRR SEA SURFACE TEMPERATURE METAGRANULES (GHRSST) - METOP

DESCRIPTION

This product consists in Metop/AVHRR full resolution (1 km at nadir) sub-skin Sea Surface Temperature granules. Granules are disseminated every 3 minutes through EUMETCast. The product format is compliant with the Data Specification (GDS) version 2 from the Group for High Resolution Sea Surface Temperatures (GHRSST). [Read more](#)



DATA FORMAT (NETCDF)

Filename convention	S-OSI_-FRA_-MTOP-MGRSST_FIELD-<YYYYMMDDhhmm>Z.nc
Typical file names	S-OSI_-FRA_-MTOP-MGRSST_FIELD-201708102252Z.nc
Typical file size	3.8 MB
Frequency	480 (per day)

TECHNICAL DETAILS

Platform	Metop
Orbit type	LEO
Sensor	AVHRR
Sensor Type	Radiometer
Local Storage Folder	Metop_MGRSST

ADDITIONAL INFORMATION

Acronym	OSI-204-b, OSI-204, MGR SST
Parameter	Ocean, Sea Surface Temperature, Level 2 Data

6. ASCAT COASTAL WINDS AT 12.5 KM SWATH GRID - METOP

DESCRIPTION

Equivalent neutral 10m winds over the global oceans, with specific sampling to provide as many observations as possible near the coasts. Better than using this archived NRT product, please use the reprocessed ASCAT winds data records (EO:EUM:DAT:METOP:OSI-150-A, EO:EUM:DAT:METOP:OSI-150-B). [Read more](#)



DATA FORMAT (BUFR)

Filename convention	<instrument>_<YYYYMMDD>_<hhmmss>_<satellite>_<orbit>_<service>_<processing-type>_<sampling>_<product-contents>.l2_bufr
Typical file names	ascat_20170422_220300_metopa_54529_eps_o_coa_ovw.l2_bufr ascat_20191106_223000_metopc_05184_eps_o_coa_ovw.l2_bufr ascat_20170422_230300_metopb_23843_eps_o_coa_ovw.l2_bufr
Typical file size	400 KB
Frequency	480 (per day)

TECHNICAL DETAILS

Platform	Metop
Orbit type	LEO
Sensor	ASCAT
Sensor Type	Scatterometer
Local Storage Folder	Metop_OASWC12

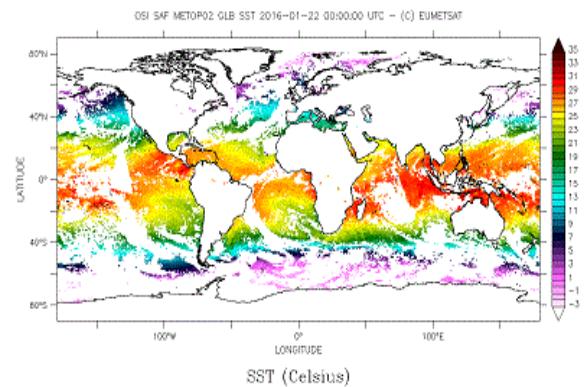
ADDITIONAL INFORMATION

Acronym	OSI-104, ASCAT12+, OSI-104-c, OSI-104-b, OASWC12
Parameter	Ocean Surface Wind, Ocean, Level 2 Data, Radar Backscatter NRCS

7. GLOBAL L3C AVHRR SEA SURFACE TEMPERATURE (GHRSST) - METOP

DESCRIPTION

Global Metop/AVHRR sub-skin Sea Surface Temperature (GBL SST) is a 12-hourly synthesis on a 0.05° global grid. The product format is compliant with the Data Specification (GDS) version 2 from the Group for High Resolution Sea Surface Temperatures (GHRSST). [Read more](#)



DATA FORMAT (NETCDF)

Typical file names S-OSI_-FRA_-MTOP-GLBSST_FIELD-201705171200Z.nc

Typical file size 40 MB

Frequency 2 (per day)

TECHNICAL DETAILS

Platform Metop

Orbit type LEO

Sensor AVHRR

Sensor Type Radiometer

Local Storage Folder Metop_OSSTGLB

ADDITIONAL INFORMATION

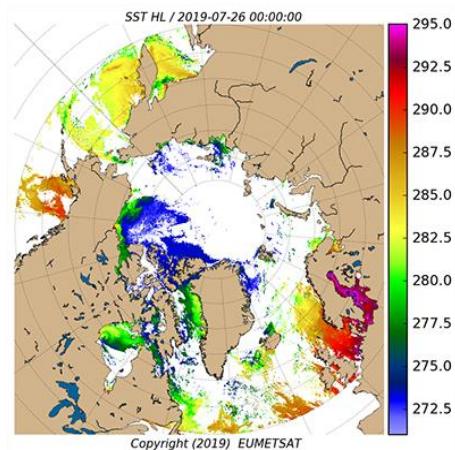
Acronym OSSTGLBN, OSI-201-b, GLB SST, OSSTGLB

Parameter Ocean, Sea Surface Temperature

8. NORTHERN HIGH LATITUDE L3 SEA AND SEA ICE SURFACE TEMPERATURE - METOP-B

DESCRIPTION

NRT 12 hourly aggregated SST and IST product for northern high latitudes (poleward of 50N). It is based on AVHRR data. [Read more](#)



DATA FORMAT (BUFR)

Filename convention S-OSI_-<producer>_-<satellite>-<product identifier>-YYYYMMDDHHmmZ.nc

Typical file names S-OSI_-NOR_-MTOP-OSSTIST3A-201907281200Z.nc

Typical file size 14 MB

TECHNICAL DETAILS

Platform Metop

Orbit type LEO

Sensor AVHRR

Sensor Type Radiometer

Local Storage Folder Metop_OSSTIST3A

ADDITIONAL INFORMATION

Acronym OSSTIST3A, OSI-203-a, NHL L3 SST/IST

Parameter Level 3 Data, Ocean, Sea Surface Temperature, Sea Ice

9. L3C HOURLY SEA SURFACE TEMPERATURE (GHRSST) – MSG

DESCRIPTION

Hourly sub-skin Sea Surface Temperature product derived from Meteosat at 0° longitude, covering 60S-60N and 60W-60E and re-projected on a 0.05° regular grid. The product format is compliant with the Data Specification (GDS) version 2 from the Group for High Resolution Sea Surface Temperatures (GHRSST). This Meteosat-11 based product is available only from 20/02/2018. For data before this date, we advise you to use the 2004-2012: L3C hourly Sea Surface Temperature (GHRSST) data record release 1 - MSG which is in the same GHRSST-compliant format 2011-2017: L3C hourly Sea Surface Temperature (GRIB) - MSG which is in GRIB format. The same data but in GHRSST-compliant format can be found on the OSI SAF LML FTP server (Ifremer). [Read more](#)



DATA FORMAT (NETCDF)

Filename convention S-OSI_-FRA_-MSG_-H__SST_FIELD-<YYYYHHMMhhmm>Z.nc

Typical file names S-OSI_-FRA_-MSG_-H__SST_FIELD-201705170200Z.nc

Typical file size 11 MB

Frequency 24 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_SST

ADDITIONAL INFORMATION

Acronym OSIHSSTN, OSI-206-a, MET SST

Parameter Ocean, Sea Surface Temperature, Level 2 Data

10. L3C HOURLY SEA SURFACE TEMPERATURE (GHRSST) - MSG

DESCRIPTION

Hourly sub-skin Sea Surface Temperature product derived from Meteosat at 0° longitude, covering 60S-60N and 60W-60E and re-projected on a 0.05° regular grid. The product format is compliant with the Data Specification (GDS) version 2 from the Group for High Resolution Sea Surface Temperatures (GHRSST).

This Meteosat-11 based product is available only from 20/02/2018. For data before this date, we advice you to use the

2004-2012: L3C hourly Sea Surface Temperature (GHRSST) data record release 1 - MSG which is in the same GHRSST-compliant format

2011-2017: L3C hourly Sea Surface Temperature (GRIB) - MSG which is in GRIB format. The same data but in GHRSST-compliant format can be found on the OSI SAF LML FTP server (Ifremer). [Read more](#)



DATA FORMAT (NETCDF)

File name convention S-OSI_-FRA_-MSG_-H__SST_FIELD-<YYYYHHMMhhmm>Z.nc

Typical file names S-OSI_-FRA_-MSG_-H__SST_FIELD-201705170200Z.nc

Typical file size 11 MB

Frequency 24 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_SST_FIELD

ADDITIONAL INFORMATION

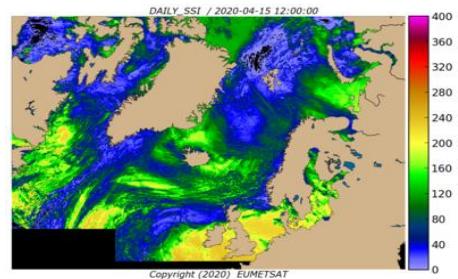
Acronym OSIHSSTN, OSI-206-a, MET SST

Parameter Ocean, Sea Surface Temperature, Level 2 Data

11. ATLANTIC HIGH LATITUDE SURFACE SOLAR IRRADIANCE (NETCDF) - MULTIMISSION

DESCRIPTION

Estimation of the daily solar irradiance reaching the Earth surface, derived from AVHRR data on board the polar orbiting satellites from EUMETSAT and NOAA over the Atlantic High Latitudes. The daily value is the integration of all the orbital values in the UT day. The product is remapped onto a 5km polar stereographic grid and expressed in W/m². [Read more](#)



DATA FORMAT (NETCDF4)

Typical file names S-OSI_-NOR_-MULT-AHLDLISSI____-202005041200Z.nc

Typical file size 12 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Platform Metop, NOAA

Orbit type LEO

Sensor AVHRR

Sensor Type Radiometer

Local Storage Folder MULT_AHLDLISSI

ADDITIONAL INFORMATION

Acronym OSI-302-b, ODLISSIAHL , AHL SSI

Parameter Radiation, Ocean

12. ATLANTIC HIGH LATITUDE SEA SURFACE TEMPERATURE - MULTIMISSION

DESCRIPTION

Calculation of underskin temperature (°C) with multispectral algorithm.

The product covers the Atlantic High Latitudes and is delivered twice daily on a 5km polar stereographic grid. [Read more](#)



DATA FORMAT (GRIB1)

Filename convention	S-OSI_-NOR_-MULT-AHLSST_<(field field_)>-<YYYYMMDDhhmm>Z.grb.gz
Typical file names	S-OSI_-NOR_-MULT-AHLSST_FIELD-201704221200Z.grb.gz S-OSI_-NOR_-MULT-AHLSST_TIME_-201704221200Z.grb.gz S-OSI_-NOR_-MULT-AHLSST_QUAL_-201704221200Z.grb.gz
Typical file size	150 KB
Frequency	2 (per day)

TECHNICAL DETAILS

Platform	Metop, NOAA
Orbit type	LEO
Sensor	AVHRR
Sensor Type	Radiometer
Local Storage Folder	MULT_AHLSST

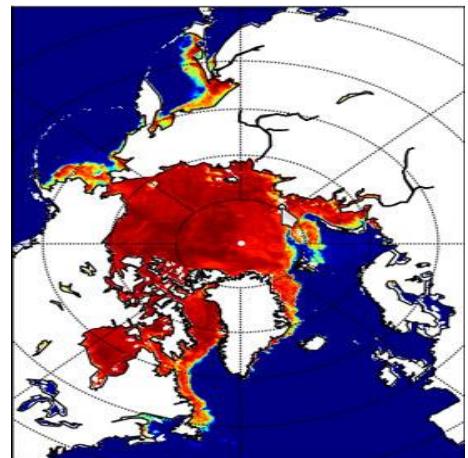
ADDITIONAL INFORMATION

Acronym	OSSTAHL, AHL SST
Parameter	Level 3 Data, Ocean, Sea Surface Temperature

13. GLOBAL AMSR SEA ICE CONCENTRATION - GCOM-W1

DESCRIPTION

The High Latitude Level 3 Global AMSR Sea Ice Concentration consists of these major fields: Sea ice concentration - Indicates the fraction of a given ocean grid point covered by ice. Uncertainties - The algorithm uncertainty, the smearing uncertainty and the resulting total uncertainty of each sea ice concentration grid cell. Confidence level - Based on the daily standard deviation within each grid cell, provided as a guide. This product is complementary to the SSMIS global sea ice concentration product (OSI-401-b). [Read more](#)



DATA FORMAT (NETCDF)

Typical file names S-OSI_-DMI_-AMSR-GL_NH_CONC__-201702141200Z.nc.gz
 S-OSI_-DMI_-AMSR-GL_SH_CONC__-201702141200Z.nc.gz

Typical file size 7.3 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Platform GCOM

Orbit type LEO

Sensor AMSR-2

Sensor Type Imager

Local Storage Folder MULT_AMSR_CONC

ADDITIONAL INFORMATION

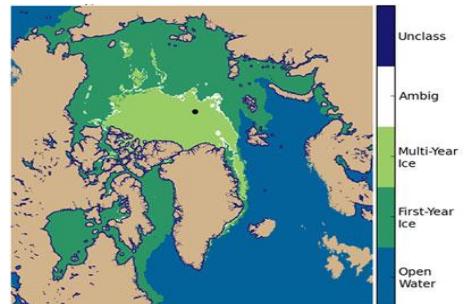
Acronym GBL AMSR SICO, OSICOAMSRGB, OSI-408

Parameter Level 3 Data, Sea Ice

14. GLOBAL SEA ICE TYPE (NETCDF) - MULTIMISSION

DESCRIPTION

The Sea Ice Type product is a classification product (multiyear ice/first-year ice) and covers both the Northern Hemisphere (NH) and Southern Hemisphere (SH). The sea ice type is derived from passive microwave and active microwave sensors using a multi sensor methods with a Bayesian approach to combine the different sensors. At present, it is not possible to do an ice type classification during summer from the processed channels. Accordingly, the NH ice type product files distributed between mid-May and 30 September do not contain any valid classification. Similarly, for the SH, at present no ice type classification has been defined and SH product files do not contain valid classification. [Read more](#)



DATA FORMAT (NETCDF)

Typical file names S-OSI_-NOR_-MULT-GL_NH_TYPEn_-201705091200Z.nc.gz
S-OSI_-NOR_-MULT-GL_SH_TYPEn_-201705091200Z.nc.gz

Typical file size 4.5 MB

Frequency 1 NH file (per day), 1 SH file (per day)

TECHNICAL DETAILS

Platform Metop, DMSP, GCOM

Orbit type LEO

Sensor ASCAT, SSMIS, AMSR-2

Sensor Type Imager, Scatterometer

Local Storage Folder MULT_GL

ADDITIONAL INFORMATION

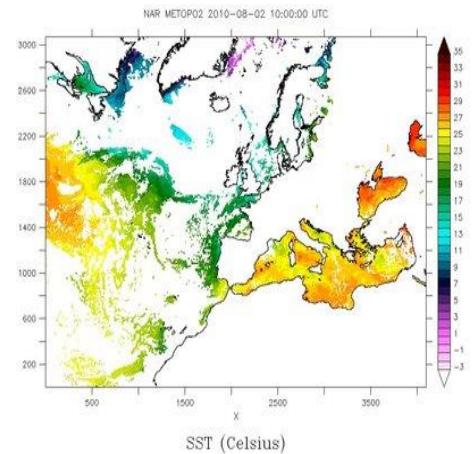
Acronym OSI-403-c, OSITYGBN

Parameter Level 3 Data, Ocean, Sea Ice

15. L3C NORTH ATLANTIC REGIONAL (NAR) SEA SURFACE TEMPERATURE (GHRSST) -MULTIMISSION

DESCRIPTION

NAR product consists in Metop/AVHRR and SNPP/VIIRS derived sub-skin Sea Surface Temperature over North Atlantic and European Seas at 2 km resolution, four times a day. The product format is compliant with the Data Specification (GDS) version 2 from the Group for High Resolution Sea Surface Temperatures (GHRSST). [Read more](#)



DATA FORMAT (NETCDF4)

Filename convention S-OSI_-FRA_-MTOP-NARSST_FIELD-<YYYYHHMMhhmm>.nc,
S-OSI_-FRA_-NPP_-NARSST_FIELD-<YYYYHHMMhhmm>.nc

Typical file names S-OSI_-FRA_-MTOP-NARSST_FIELD-201705162000Z.nc
S-OSI_-FRA_-NPP_-NARSST_FIELD-201705171300Z.nc

Typical file size 22 MB

Frequency 4 (per day)

TECHNICAL DETAILS

Platform Metop, JPSS

Orbit type LEO

Sensor VIIRS, AVHRR

Sensor Type Imager, Radiometer

Local Storage Folder MULT_NARSST

ADDITIONAL INFORMATION

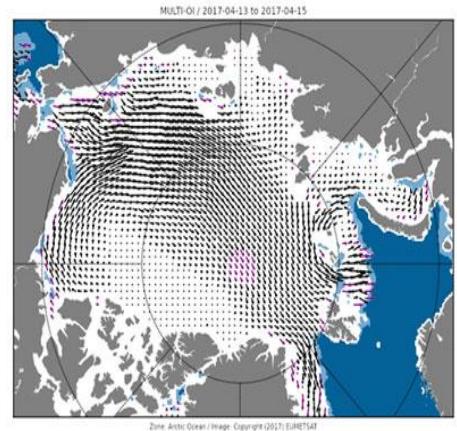
Acronym OSI-202, OSI-202-b, OSSTNARN

Parameter Ocean, Sea Surface Temperature

16. GLOBAL LOW RESOLUTION SEA ICE DRIFT - MULTIMISSION

DESCRIPTION

Low Resolution Sea Ice Drift product covers both Northern Hemisphere (NH) and Southern Hemisphere (SH), all year round. Ice motion vectors with a time span of 48 hours are estimated by an advanced cross-correlation method (the Continuous MCC, CMCC) from pairs of passive and active microwave satellite images. Several single-sensor products are available, as well as a merged (multi-sensor) product. Maps of uncertainties are embedded in the product files. Due to higher atmospheric wetness and sea ice surface melting, it is more challenging to track ice motion during summer. Accordingly, the NH product files distributed between 1 May and 30 September have larger uncertainties and more interpolated vectors. The same holds for the SH product files between 1 November and 30 March. [Read more](#)



DATA FORMAT (NETCDF)

Typical file names S-OSI_-NOR_-MULT-SH_LRSIDRIFT-201705161200Z.nc.gz
S-OSI_-NOR_-MULT-NH_LRSIDRIFT-201705161200Z.nc.gz

Typical file size 140 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Platform Metop, DMSP, GCOM

Orbit type LEO

Sensor ASCAT, SSMIS, AMSR-2

Sensor Type Imager, Scatterometer

Local Storage Folder MULT_OSIDRGB

ADDITIONAL INFORMATION

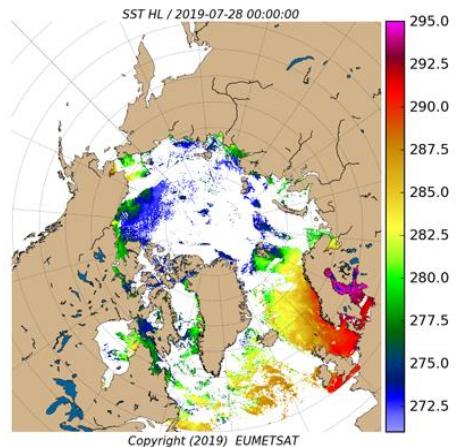
Acronym OSI-405-c, GBL LR SIDR, OSIDRGB

Parameter Level 3 Data, Ocean, Sea Ice

17. HIGH LATITUDE L2 SEA AND SEA ICE SURFACE TEMPERATURE - NPP

DESCRIPTION

Integrated high latitude Surface Temperature product. The product covers the sea and ice areas polewards of latitudes 50N. [Read more](#)



DATA FORMAT (NETCDF4)

Filename convention S-OSI_-<producer>_-<satellite>-<product identifier>-YYYYMMDDHHmmZ.nc

Typical file names S-OSI_-NOR_-NPP_-OSSTIST2B-201907290412Z.nc

Typical file size 150 MB

TECHNICAL DETAILS

Platform JPSS

Orbit type LEO

Sensor VIIRS

Sensor Type Imager

Local Storage Folder NPP_OSSTIST2B

ADDITIONAL INFORMATION

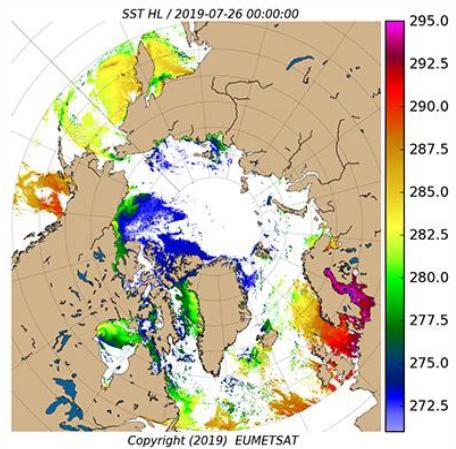
Acronym OSSTIST2B, OSI-205-b, HL L2 SST/IST

Parameter Ocean, Sea Surface Temperature, Level 2 Data, Sea Ice

18. NORTHERN HIGH LATITUDE L3 SEA AND SEA ICE SURFACE TEMPERATURE - NPP

DESCRIPTION

NRT 12 hourly aggregated SST and IST product for northern high latitudes (poleward of 50N). It is based on NPP VIIRS data. [Read more](#)



DATA FORMAT (NETCDF4)

Typical file names S-OSI_-NOR_-NPP_-OSSTIST3B-201907281200Z.nc

Typical file size 13 MB

Frequency 2 (per day)

TECHNICAL DETAILS

Platform JPSS

Orbit type LEO

Sensor VIIRS

Sensor Type Imager

Local Storage Folder NPP_OSSTIST3B

ADDITIONAL INFORMATION

Acronym OSSTIST3B, OSI-203-b, NHL L3 SST/IST

Parameter Level 3 Data, Ocean, Sea Surface Temperature, Sea Ice

19. OSCAT WINDS AT 25 KM SWATH GRID - SCATSAT

DESCRIPTION

Stress-equivalent 10m winds over the global oceans obtained from the ScatSat-1 OSCAT scatterometer. [Read more](#)



DATA FORMAT (BUFR)

Typical file names W_NL-KNMI-DeBilt,SURFACE+SATELLITE,SCATSAT1+OSCAT_C_EHDB_20180403215814_08043_o_250_ovw_l2.nc.gz

Typical file size 6 MB

Frequency 29 (per day)

TECHNICAL DETAILS

Platform ScatSat

Orbit type LEO

Sensor OSCAT

Sensor Type Scatterometer

Local Storage Folder ScatSat_OSSW025

ADDITIONAL INFORMATION

Acronym OSSW025, OSI-112-a, SCASA25

Parameter Atmosphere, Ocean Surface Wind, Ocean, Radar Backscatter NRCS

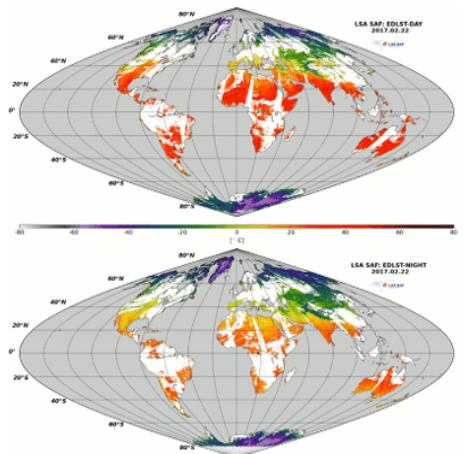


CHANNEL:
A1C – SAF – 2

1. DAILY LAND SURFACE TEMPERATURE – METOP

DESCRIPTION

Land Surface Temperature (LST) is the radiative skin temperature over land. The EDLST (EPS Daily Land Surface Temperature) provides a day-time and night-time retrievals of LST based on clear-sky measurements from the Advanced Very High-Resolution Radiometer (AVHRR) on-board EUMETSAT polar system satellites, the Metop series. [Read more](#)



DATA FORMAT (HDF5)

Filename convention	SLSA_HDF5_LSASAF_M01-AVHR_<product>-<(day-time night-time)>_<geographicalarea>_<YYYYMMDDhhmm>.bz2
Typical file names	S-LSA_-HDF5_LSASAF_M01-VHR_EDLSTNIGHT_GLOBE_201708130000.bz2 S-LSA_-HDF5_LSASAF_M01-AVHR_EDLSTDAY_GLOBE_201708130000.bz2
Typical file size	130 MB
Frequency	1 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	LEO
Sensor	AVHRR
Sensor Type	Radiometer
Local Storage Folder	Metop_AVHRR_EDLST

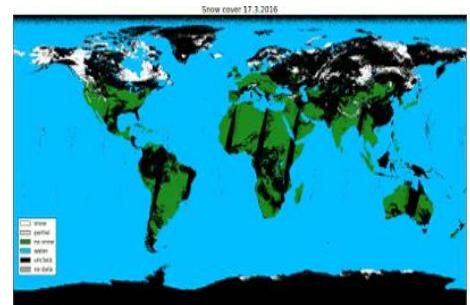
ADDITIONAL INFORMATION

Acronym	LSAEDLST, EDLST, LSA-002
Parameter	Level 3 Data, Land Surface Temperature, Surface Radiation Budget

2. DAILY SNOW COVER – METOP

DESCRIPTION

Snow Cover (SC) is the presence of snow over land. SC plays an important role in the physics of land surface as it is involved in the processes of energy and water exchange with the atmosphere. SC is useful for the scientific community, namely for those dealing with meteorological and climate models. Accurate detection of snow in a pixel is also important for a wide range of areas related to land surface processes, including meteorology, hydrology, climatology and environmental studies. This product is generated by the LSA SAF on behalf of the H SAF. [Read more](#)



DATA FORMAT (HDF5)

Filename convention	SLSA_HDF5_LSASAF_M01-AVHR_<product>_<geographicalarea>_<YYYYMMDDhhmm>.bz2
Typical file names	S-LSA_-HDF5_LSASAF_M01-AVHR_EDSC_GLOBE_201708130000.bz2
Typical file size	130 MB
Frequency	1 (per day)

TECHNICAL DETAILS

Platform	Metop
Orbit type	LEO
Sensor	AVHRR
Sensor Type	Radiometer
Local Storage Folder	Metop_AVHRS_EDSC

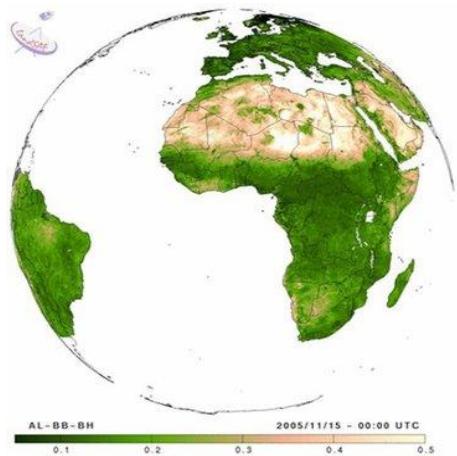
ADDITIONAL INFORMATION

Acronym	H32
Parameter	Surface Radiation Budget

3. SURFACE ALBEDO – MSG

DESCRIPTION

Land surface albedo is a key variable for characterizing the energy balance in the coupled soil vegetation- atmosphere system. The albedo quantifies the part of the energy that is absorbed and transformed into heat and latent fluxes. Owing to strong feedback effects the knowledge of albedo is important for determining weather conditions at the atmospheric boundary layer. Climate sensitivity studies with Global Circulation Models have confirmed the unsteady nature of the energy balance with respect to small changes in surface albedo. Other domains of applications are in hydro-meteorology, agro-meteorology and environment-related studies. Two products are pre-operational, the first is available daily and the second is a 10-day composite (See distribution for details). [Read more](#)



DATA FORMAT (HDF5)

	S-LSA_-
Filename convention	HDF5_LSASAF_MSG_<product>_<geographicalarea>_<YYYYMMDDHHmm>.bz2 where <product> is(e.g. ALBEDO, AL-C1, AL-C2, ...) , <geographicalarea>is (e.g. Euro, NAfr, SAme, ...)
Typical file names	S-LSA_-HDF5_LSASAF_MSG_ALBEDO_NAfr_201710040000.bz2 S-LSA_-HDF5_LSASAF_MSG_ALBEDO_Euro_201710040000.bz2 S-LSA_-HDF5_LSASAF_MSG_ALBEDO_SAme_201710050000.bz2 S-LSA_-HDF5_LSASAF_MSG_ALBEDO_SAfr_201710050000.bz2
Typical file size	10.0 MB
Frequency	1 (per day) (per region)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical

**Local Storage
Folder** MSG_ALBEDO

ADDITIONAL INFORMATION

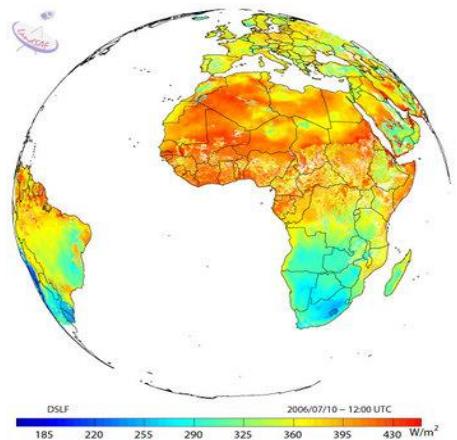
Acronym LSAAL, AL-SEVIRI, LSA-101

Parameter Radiation, Level 2 Data, Land

4. DOWNWELLING SURFACE LW FLUXES – MSG

DESCRIPTION

Downwelling Surface Longwave Radiation Flux (DSLF) is the result of atmospheric absorption, emission and scattering within the entire atmospheric column and may be defined as the thermal irradiance reaching the surface in the thermal infrared spectrum (4-100mm). In clear sky situations DSLF depends on the vertical profiles of temperature and gaseous absorbers (primarily the water-vapour followed by CO₂, and others of smaller importance like O₃, CH₄, N₂O and CFCs). DSLF is directly related to the greenhouse effect and its monitoring has an important role in climate change studies. Other applications include meteorology (land applications) and oceanography (air-sea-ice interaction studies). Two products are operationally available, the first is available every 30 minutes and the second is a composite daily product (See distribution for details). [Read more](#)



DATA FORMAT (HDF5)

Filename convention S-LSA_-HDF5_LSASAF_MSG_<product>_<geographicalarea>_<YYYYMMDDhhmm>.bz2

Typical file names
 S-LSA_-HDF5_LSASAF_MSG_DSLF_SAfr_201708161600.bz2
 S-LSA_-HDF5_LSASAF_MSG_DSLF_SAm_201708161600.bz2
 S-LSA_-HDF5_LSASAF_MSG_DSLF_Euro_201708160600.bz2
 S-LSA_-HDF5_LSASAF_MSG_DSLF_NAfr_201708161600.bz2

Typical file size 4.0 MB

Frequency 48 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_DSLF

ADDITIONAL INFORMATION

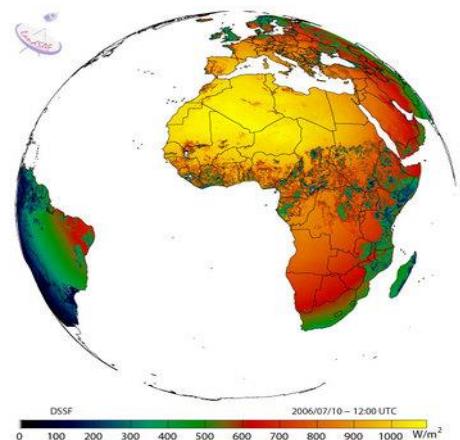
Acronym LSA-204, DSLF, LSADSLF

Parameter Radiation, Level 2 Data, Land

5. DOWNWELLING SURFACE SW FLUXES – MSG

DESCRIPTION

The down-welling surface short-wave radiation flux (DSSF) refers to the radiative energy in the wavelength interval [0.3 microns, 4.0 microns] reaching the Earth's surface per time and surface unit. It essentially depends on the solar zenith angle, on cloud coverage, and to a lesser extent on atmospheric absorption and surface albedo. DSSF fields are crucial for a wide number of applications involving scientific domains like weather forecast, hydrology, climate, agriculture and environment-related studies. In numerical weather prediction and general circulation models of the atmosphere, satellite derived DSSF estimates can either be used as a control variable or as a substitute to surface radiation measurement networks. Two products are operationally available, the first is available every 30 minutes and the second is a composite daily product (See distribution for details). [Read more](#)



DATA FORMAT (HDF5)

Filename convention	S-LSA_- HDF5_LSASAF_MSG_<product>_<geographicalarea>_<YYYYMMDDhhmm>.bz2
Typical file names	S-LSA_-HDF5_LSASAF_MSG_DSSF_SAme_201708161600.bz2 S-LSA_-HDF5_LSASAF_MSG_DSSF_SAfr_201708161600.bz2 S-LSA_-HDF5_LSASAF_MSG_DSSF_NAfr_201708161600.bz2 S-LSA_-HDF5_LSASAF_MSG_DSSF_Euro_201708160600.bz2
Typical file size	3.0 MB
Frequency	48 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical

**Local Storage
Folder** MSG_DSSF

ADDITIONAL INFORMATION

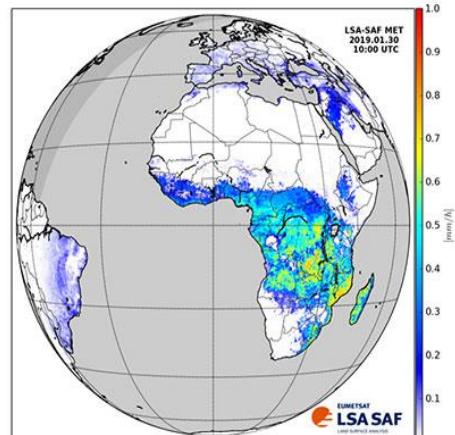
Acronym LSADSSF, LSA-201, DSSF-SEVIRI

Parameter Radiation, Level 2 Data, Land

6. EVAPOTRANSPIRATION V2 - MSG - 0 DEGREE

DESCRIPTION

Evapotranspiration (ET) accounts for the flux of water evaporated at the Earth-atmosphere interface (from soil, water bodies and interception) and transpired by vegetation through stomata in its leaves as a consequence of photosynthetic processes. [Read more](#)



DATA FORMAT (HDF5)

Filename convention	S-LSA_-HDF5_LSASAF_MSG_<Product>_<GeoArea>_YYYYMMDDHHmm.bz2
Typical file names	S-LSA_-HDF5_LSASAF_MSG_ET_MSG-Disk_201901211300.bz2 S-LSA_-HDF5_LSASAF_MSG_ET-TSK_MSG-Disk_201901211300.bz2
Typical file size	4 MB
Frequency	2 (every 30 min)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_ET

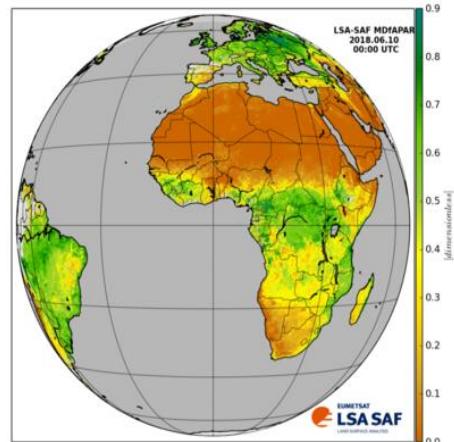
ADDITIONAL INFORMATION

Acronym	LSA-311, MET
Parameter	Level 4 Data, Vegetation, Land

7. DAILY FRACTION OF ABSORBED PHOTOSYNTHETIC ACTIVE RADIATION – MSG

DESCRIPTION

Fraction of Absorbed Photosynthetically Active Radiation (FAPAR) defines the fraction of PAR (400-700 nm) absorbed by the green parts of the canopy, and thus expresses the canopy's energy absorption capacity. FAPAR depends both on canopy structure, leaf and soil optical properties and irradiance conditions. FAPAR has been recognized as one of the fundamental terrestrial state variables in the context of the global change sciences (Steering Committee for GCOS, 2003; Gobron et al., 2006). It is a key variable in models assessing vegetation primary productivity and, more generally, in carbon cycle models implementing up-to-date land surfaces process schemes. Besides, FAPAR it is an indicator of the health of vegetation. FAPAR is generally well correlated with the LAI, the more for healthy fully developed vegetation canopies. These data formats are available via this distribution method. [Read more](#)



DATA FORMAT (HDF5)

Filename convention SLSA_HDF5_LSASAF_MSG_<Product>_<GeoArea>_YYYYMMDDHHmm.bz2

Typical file names S-LSA_-HDF5_LSASAF_MSG_FAPAR_Euro_201708100000.bz2
S-LSA_HDF5_LSASAF_MSG_FAPAR_MSG-Disk_201411140000.bz2

Typical file size 7.2 MB

Frequency 1 (per day) (per region)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

**Local Storage
Folder** MSG_FAPAR

ADDITIONAL INFORMATION

Acronym LSA-425, FAPAR-SEVIRI, LSA-407, MDFAPAR, LSAFAPAR

Parameter Vegetation, Land

8. FIRE DETECTION AND MONITORING – MSG

DESCRIPTION

FD&M is based on the algorithm FIDALGO (Fire Detection Algorithm) developed within the LSA SAF (Amraoui et al., 2010) to identify SEVIRI/Meteosat pixels potentially contaminated by fires. [Read more](#)



DATA FORMAT (HDF5)

	S-LSA_-
Filename convention	HDF5_LSASAF_MSG_<product>_<geographicalarea>_<YYYYMMDDhhmm>.bz2 S-LSA_-HDF5_LSASAF_MSG_<product>-QualityProduct_<geographicalarea>_<YYYYMMDDhhmm>.bz2
	S-LSA_-HDF5_LSASAF_MSG_FDeM_NAfr_201708151400.bz2 S-LSA_-HDF5_LSASAF_MSG_FDeMQualityProduct_NAfr_201708151400.bz2
Typical file names	S-LSA_-HDF5_LSASAF_MSG_FDeM_Euro_201708122215.bz2 S-LSA_-HDF5_LSASAF_MSG_FDeMQualityProduct_SAfr_201708151400.bz2 S-LSA_-HDF5_LSASAF_MSG_FDeMQualityProduct_Euro_201708122215.bz2 S-LSA_-HDF5_LSASAF_MSG_FDeM_SAfr_201708151400.bz2
Typical file size	10 MB
Frequency	96 (per day)

TECHNICAL DETAILS

Platform	MSG
Orbit type	GEO
Sensor	SEVIRI
Sensor Type	Optical
Local Storage Folder	MSG_FDeM

ADDITIONAL INFORMATION

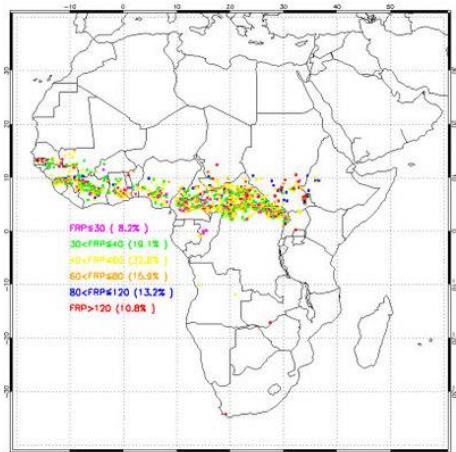
Acronym LSAFDeM, FDEM, LSA-501

Parameter Fire, Level 2 Data, Land

9. FIRE RADIATIVE POWER PIXEL – MSG

DESCRIPTION

The Fire Radiative Power product (FRP, in megawatts) provides information on the measured radiant heat output of detected fires. It has been demonstrated in small-scale experimental fires that the amount of radiant heat energy liberated per unit time (the Fire Radiative Power) is related to the rate at which fuel is being consumed. This is a direct result of the combustion process; whereby carbon-based fuel is oxidized to CO₂ with the release of a certain heat yield. Therefore, measuring this FRP and integrating it over the lifetime of the fire provides an estimate of the total Fire Radiative Energy (FRE), which for wildfires should be proportional to the total mass of fuel biomass combusted. Geostationary observations allow high temporal frequency FRP measurements, and thus a much-improved ability to estimate FRE via temporal integration when compared to the far less-frequent observations made from systems in low-Earth orbit. The FRP product is derived every 15 min at the native SEVIRI pixel resolution. The disseminated product includes for each processed pixel, the FRP (MW), the corresponding uncertainty in the FRP retrieval based on the variability of the background radiance estimation, and a confidence measure (representing the level of confidence that the observation is indeed a true fire). Applications: The FRP product is intended to support emerging operational atmosphere and climate-related applications, such as Air quality forecasting, Carbon cycle assessment and modelling, and Fire activity models. [Read more](#)



DATA FORMAT (HDF5)

	SLSA_-HDF5_LSASAF_MSG_<product>-
Filename convention	ListProduct_<geographicalarea>_<YYYYMMDDhhmm>.bz2
	S-LSA_-HDF5_LSASAF_MSG_<product>-
	QualityProduct_<geographicalarea>_<YYYYMMDDhhmm>.bz2
	S-LSA_-HDF5_LSASAF_MSG_FRP-PIXELListProduct_SAme_201708151230.bz2
	S-LSA_-HDF5_LSASAF_MSG_FRP-
	PIXELQualityProduct_SAme_201708151230.bz2
Typical file names	S-LSA_-HDF5_LSASAF_MSG_FRP-PIXELQualityProduct_Euro_201708150630.bz2
	S-LSA_-HDF5_LSASAF_MSG_FRP-PIXELListProduct_NAfr_201708151215.bz2
	S-LSA_-HDF5_LSASAF_MSG_FRP-PIXELListProduct_SAfr_201708151215.bz2
	S-LSA_-HDF5_LSASAF_MSG_FRP-PIXELListProduct_Euro_201708150630.bz2
	S-LSA_-HDF5_LSASAF_MSG_FRP-PIXELQualityProduct_NAfr_201708151215.bz2
	S-LSA_-HDF5_LSASAF_MSG_FRP-PIXELQualityProduct_SAfr_201708151215.bz2

Typical file size 1.0 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_FRP-PIXEL

ADDITIONAL INFORMATION

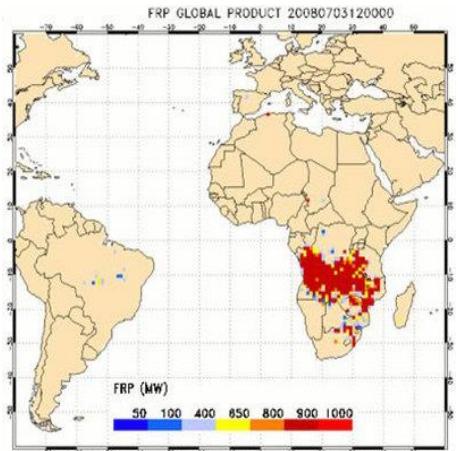
Acronym LSA-502, FRP-SEVIRI, LSAFRP

Parameter Fire, Level 2 Data, Land

10. FIRE RADIATIVE POWER GRID – MSG

DESCRIPTION

The FRPGRID product contains an hourly estimation of the FRP at one-degree resolution and includes several correction factors. The Fire Radiative Power product (FRP, in MWatts) provides information on the measured radiant heat output of detected fires. It has been demonstrated in small-scale experimental fires that the amount of radiant heat energy liberated per unit time (the Fire Radiative Power) is related to the rate at which fuel is being consumed [1]. This is a direct result of the combustion process; whereby carbon-based fuel is oxidized to CO₂ with the release of a certain 'heat yield'. Therefore, measuring this FRP and integrating it over the lifetime of the fire provides an estimate of the total Fire Radiative Energy (FRE), which for wildfires should be proportional to the total mass of fuel biomass combusted. [Read more](#)



DATA FORMAT (HDF5)

Filename convention S-LSA_-HDF5_LSASAF_MSG_<product>_<area>_<YYYYMMDDhhmm>.bz2

Typical file names S-LSA_-HDF5_LSASAF_MSG_FTA-FRP-GRID_MSGDisk_201708121200.bz2

Typical file size 6.0 KB

Frequency 24 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_FTA_FRP_GRID

ADDITIONAL INFORMATION

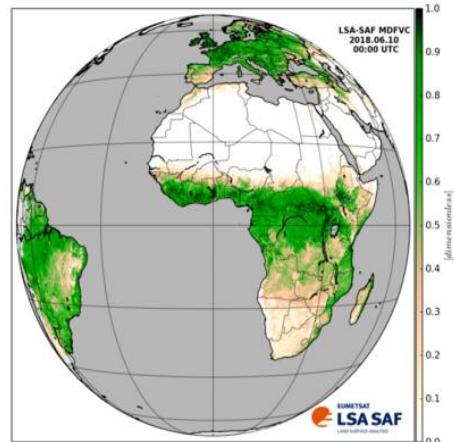
Acronym LSA-503, FRPGRID-SEVIRI, LSAFRPG

Parameter Fire, Level 2 Data, Land

11. DAILY FRACTION OF VEGETATION COVER – MSG

DESCRIPTION

Fractional Vegetation Cover (FVC) defines an important structural property of a plant canopy, which corresponds to the complement to unity of the gap fraction at nadir direction, accounting for the amount of vegetation distributed in a horizontal perspective. FVC is related with the partition between soil and vegetation contribution for emissivity and temperature. This property is necessary for describing land surface processes and surface parameterisation schemes used for climate and weather forecasting. Besides, the FVC is relevant for a wide range of Land Biosphere Applications such as agriculture and forestry, environmental management and land use, hydrology, natural hazards monitoring and management, vegetation-soil dynamics monitoring, drought conditions and fire scar extent. [Read more](#)



DATA FORMAT (HDF5)

Filename convention S-LSA_-HDF5_LSASAF_<satellite>_<product>_<geographical-area>_<YYYYMMDDhhmm>.bz2

Typical file names S-LSA_HDF5_LSASAF_MSG_FVC_MSGDisk_201411140000.bz2
S-LSA_-HDF5_LSASAF_MSG_FVC_Euro_201708100000.bz2

Typical file size 6.5 MB

Frequency 1 (per day) (per region)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_FVC

ADDITIONAL INFORMATION

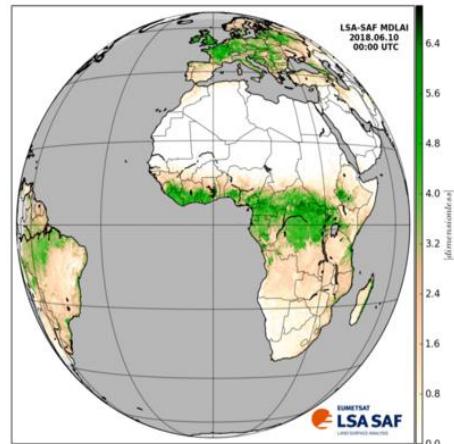
Acronym MDFVC, LSA-421, FVC-SEVIRI, LSA-401, LSAFVC

Parameter Level 3 Data, Vegetation, Land

12. DAILY LEAF AREA INDEX – MSG

DESCRIPTION

Leaf Area Index (LAI) is a dimensionless variable [m^2/m^2], which defines an important structural property of a plant canopy. LAI is defined as one half the total leaf area per unit ground area (Chen and Black, 1992). It provides complementary information to the FVC, accounting for the surface of leaves contained in a vertical column normalized by its cross-sectional area. It defines thus the area of green vegetation that interacts with solar radiation determining the remote sensing signal, and represents the size of the interface between the vegetation canopy and the atmosphere for energy and mass exchanges. LAI is thus a necessary input for Numerical Weather Prediction (NWP), regional and global climate modelling, weather forecasting and global change monitoring. [Read more](#)



DATA FORMAT (HDF5)

Filename convention SLSA_HDF5_LSASAF_MSG_<Product>_<GeoArea>_YYYYMMDDHHmm.bz2

Typical file names S-LSA_HDF5_LSASAF_MSG_LAI_MSG-Disk_201411140000.bz2
S-LSA_-HDF5_LSASAF_MSG_LAI_Euro_201708210000.bz2

Typical file size 6.5 MB

Frequency 1 (per day) (per region) (plus every 10 days)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_LAI

ADDITIONAL INFORMATION

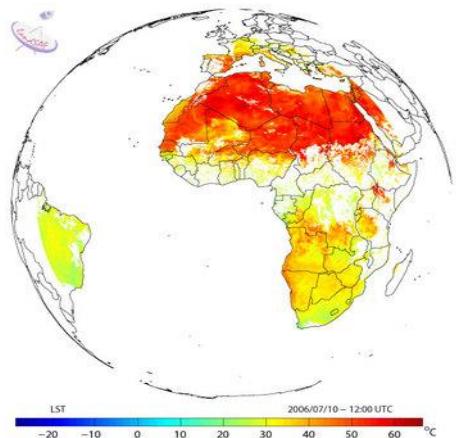
Acronym LSA-404, MDLAI, LAI-SEVIRI, LSA-423, LSALAI

Parameter Level 3 Data, Vegetation, Land

13. LAND SURFACE TEMPERATURE – MSG

DESCRIPTION

Land Surface Temperature (LST) is the radiative skin temperature over land. LST plays an important role in the physics of land surface as it is involved in the processes of energy and water exchange with the atmosphere. LST is useful for the scientific community, namely for those dealing with meteorological and climate models. Accurate values of LST are also of special interest in a wide range of areas related to land surface processes, including meteorology, hydrology, agrometeorology, climatology and environmental studies. [Read more](#)



DATA FORMAT (HDF5)

Filename convention S-LSA_-HDF5_LSASAF_MSG_<product>_<geographicalarea>_<YYYYMMDDhhmm>.bz2

Typical file names
 S-LSA_-HDF5_LSASAF_MSG_LST_Euro_201708222100.bz2
 S-LSA_-HDF5_LSASAF_MSG_LST_SAme_201708222100.bz2
 S-LSA_-HDF5_LSASAF_MSG_LST_NAfr_201708222100.bz2
 S-LSA_-HDF5_LSASAF_MSG_LST_SAfr_201708222100.bz2

Typical file size 6 MB

Frequency 96 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_LST

ADDITIONAL INFORMATION

Acronym LSALST, LST-SEVIRI, LSA-001

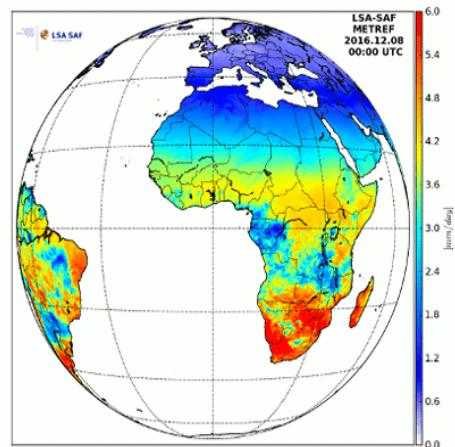
Parameter Land Surface Temperature, Level 2 Data, Land

14. REFERENCE EVAPOTRANSPIRATION - MSG

DESCRIPTION

Reference evapotranspiration, ETo, is the evapotranspiration rate from a clearly defined reference

surface. The concept was introduced to allow the estimation of the evaporative demand of the atmosphere independently of crop type, crop development or management practices. ETo corresponds to the evapotranspiration from a hypothetical extensive well-watered field covered with 12 cm height green grass having an albedo of 0.23 would experience under the given down-welling short-wave radiation. [Read more](#)



DATA FORMAT (HDF5)

Filename convention S-LSA_-HDF5_LSASAF_MSG_<product>_<geographicalarea>_<YYYYMMDDhhmm>.bz2

Typical file names S-LSA_-HDF5_LSASAF_MSG_METREF_MSGDisk_201710200000.bz2

Typical file size 3.6 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_METREF

ADDITIONAL INFORMATION

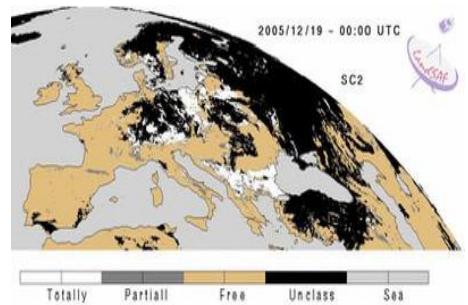
Acronym LSAMETREF, LSA-303, METREF

Parameter Vegetation Stress, Land

15. SNOW COVER – MSG

DESCRIPTION

Snow Cover (SC) is the presence of snow over land. SC plays an important role in the physics of land surface as it is involved in the processes of energy and water exchange with the atmosphere. SC is useful for the scientific community, namely for those dealing with meteorological and climate models. Accurate detection of snow in a pixel is also important for a wide range of areas related to land surface processes, including meteorology, hydrology, climatology and environmental studies. [Read more](#)



DATA FORMAT (HDF5)

Filename convention S-LSA_-HDF5_LSASAF_MSG_<product>_<geographicalarea>_<YYYYMMDDHHmm>.bz2

Typical file names
 S-LSA_-HDF5_LSASAF_MSG_SC2_Same_201710050000.bz2
 S-LSA_-HDF5_LSASAF_MSG_SC2_Euro_201710060000.bz2
 S-LSA_-HDF5_LSASAF_MSG_SC2_NAfr_201710060000.bz2
 S-LSA_-HDF5_LSASAF_MSG_SC2_SAfr_201710060000.bz2

Typical file size 3.0 MB

Frequency 1 (per day) (per region)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_SC2

ADDITIONAL INFORMATION

Acronym SC-SEVIRI, H31, LSASC

Parameter Snow and Ice, Land



CHANNEL:

A1C – TPC – 1

1. REFINED OCEAN PRODUCTS - AQUA - AMESD REGIONS

DESCRIPTION

These are ocean products for the AMESD regions of the African coastline and are the MODIS 'refined mode' version of the near-real-time (NRT) products already distributed under the AMESD project. The refined mode versions use accurate atmospheric measurements vs. estimates in the NRT and are produced after a week or two delay. Regional data is available for the Indian Ocean: east and north east of Madagascar, Cape Verde, Mozambique, Nigeria, South Somalia (SSomalia) and Tanzania. Can be used free of charge, but may not be (re-)sold. Please acknowledge PML in publications and notify rsg@pml.ac.uk. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention	PML_<amesd_area>_MODIS_<product>_refined_<passtime>.nc.bz2 where <amesd_area> = (e.g. CapeVerde, EMadagascar,Mozambique, ...), <passtime> = time of satellite, pass/granule inYYYYMMDDhhmmss
Typical file names	PML_CapeVerde_MODIS_oc_refined_20170504114000.nc.bz2 PML_CapeVerde_MODIS_sst_refined_20170504114000.nc.bz2
Typical file size	2.0 MB
Frequency	Variable

TECHNICAL DETAILS

Platform	Aqua
Orbit type	LEO
Sensor	MODIS
Sensor Type	Spectro-radiometer
Local Storage Folder	AQUA_ROPMAD

ADDITIONAL INFORMATION

Acronym ROPMAD

Parameter Ocean

2. COMPOSITE OCEAN PRODUCTS - MULTIMISSION - AMESD REGIONS

DESCRIPTION

These products are 3-day composites of the MODIS near-real-time ocean products. These are combined versions of all satellite passes over an area within the compositing period. Part of the EAMNET and AMESD projects. Regional data is available for east and north east of Madagascar, Cape Verde, Mozambique, Nigeria, South Somalia (SSomalia) and Tanzania. Can be used free of charge, but may not be (re-)sold. Please acknowledge PML in publications and notify rsg@pml.ac.uk. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention	PML_<amesd_area>_MODIS_<product>_3daycomp_<start_date>_<end_date>.nc.bz2 (<amesd_area>= CapeVerde, EMadagascar, Mozambique, NEMadagascar,Nigeria, SSomalia, Tanzania, <product> = oc or sst, <start_date>,<end_date> = YYYYMMDD)
Typical file names	PML_SSomalia_MODIS_sst_3daycomp_20110505_20110507.nc.bz2 PML_NEMadagascar_MODIS_oc_3daycomp_20110505_20110507.nc.bz2
Typical file size	10.0 MB
Frequency	Variable

TECHNICAL DETAILS

Platform	Aqua
Orbit type	LEO
Sensor	MODIS
Sensor Type	Spectro-radiometer
Local Storage Folder	MODIS_CPMAD

ADDITIONAL INFORMATION

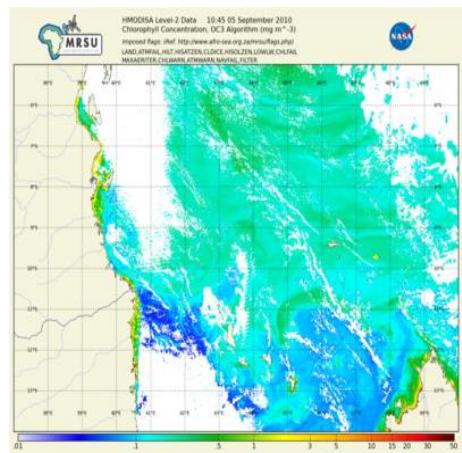
Acronym CPMAD

Parameter Ocean

3. OCEAN COLOUR PRODUCTS - MODIS – AQUA

DESCRIPTION

MODIS Aqua SST and Ocean Colour products. Daily at 1 km resolution, OC3v6 default products: Chlorophyll-A, Kd490, fluorescence line height. Regional data available for Angola, Ivory Coast, South Africa (East), Guinea, Namibia, Somalia (North), Senegal, South Africa (South), Tanzania or South Africa (West). [Read more](#)



DATA FORMAT (NETCDF)

Filename convention	UCT_<eamnet_uct_area>_MODIS_<product>_<YYYYMMDD>.nc. bz2<eamnet_uct_area>= Angola, CotedIvoire, ESAfrica, Guinea, Namibia, NSomalia, Senegal, SSAfrica, Tanzania, or WSAfrica, <product> = chlora, kd490, nflh, sst
Typical file names	UCT_Angola_MODIS_chlora_20170519.nc.bz2
Typical file size	1.0 MB
Frequency	1 (per day)

TECHNICAL DETAILS

Platform	Aqua
Orbit type	LEO
Sensor	MODIS
Sensor Type	Spectro-radiometer
Local Storage Folder	MODIS_OCPUCT

ADDITIONAL INFORMATION

Acronym	OCPUCT
Parameter	Ocean, Ocean Colour

4. NEAR REAL-TIME OCEAN PRODUCTS - MULTIMISSION - AMESD REGIONS

DESCRIPTION

Near real-time (NRT) products from NASA's MODIS (Aqua) sensor, including chlorophyll-a, sea surface temperature, K490 (turbidity) and water leaving radiances. Part of the EAMNET and AMESD projects. Regional data is available for east and north east of Madagascar, Cape Verde, Mozambique, Nigeria, South Somalia (SSomalia) and Tanzania. Can be used free of charge, but may not be (re-)sold. Please acknowledge PML in publications and notify rsg@pml.ac.uk. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention PML_<amesd_area>_MODIS_<product>_nrt_<passtime>.nc.bz2 <amesd_area> = CapeVerde, EMadagascar, Mozambique,NEMadagascar, Nigeria, SSomalia, Tanzania; <pass-time> = time of satellite, pass/granule in YYYYMMDDhhmmss (UTC)

Typical file names PML_CapeVerde_MODIS_oc_nrt_20170520145000.nc.bz2
PML_CapeVerde_MODIS_sst_nrt_20170520145000.nc.bz2

Typical file size 1.0 MB

Frequency 4 (per day)

TECHNICAL DETAILS

Platform Aqua

Orbit type LEO

Sensor MODIS

Sensor Type Spectro-radiometer

Local Storage Folder MULT_NRTOMAD

ADDITIONAL INFORMATION

Acronym NRTOMAD

Parameter Ocean, Ocean Colour

5. NEAR REAL-TIME OCEAN PRODUCTS - MULTIMISSION – AFRICA

DESCRIPTION

Mapped ocean data products from NASA's MODIS (Aqua) sensor, including chlorophyll-a, sea surface temperature, K490 (turbidity) and water leaving radiances. Regional data available for Algeria, Egypt, Ghana, Libya, Mozambique, Morocco (North), Red Sea, Sierra Leone, or Morocco (South). Part of the EAMNET and AMESD projects. Can be used free of charge, but may not be (re-)sold. Please acknowledge PML in publications and notify rsg@pml.ac.uk. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention	PML_<eamnet_pml_area>_MODIS_<product>_nrt_<pass time>.nc.bz2<eamnet_pml_area> = Algeria, Egypt, Ghana, Libya, Mozambique, NMorocco, RedSea, SierraLeone, orSMorocco<pass-time> = time of satellite, pass/granule inYYYYMMDDhhmmss (UTC)
Typical file names	PML_Algeria_MODIS_oc_nrt_20170520114000.nc.bz2 PML_Algeria_MODIS_sst_nrt_20170520114000.nc.bz2
Typical file size	1.0 MB
Frequency	24 (2 per area, per day)

TECHNICAL DETAILS

Platform	Aqua
Orbit type	LEO
Sensor	MODIS
Sensor Type	Spectro-radiometer
Local Storage Folder	MULT_NRTOMAD

ADDITIONAL INFORMATION

Acronym	NRTOAFR
Parameter	Ocean, Ocean Colour, Sea Surface Temperature



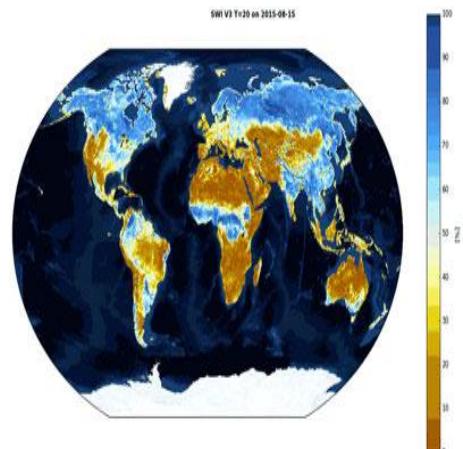
CHANNEL:

A1C – TPC – 5

1. SOIL WATER INDEX - METOP – AFRICA

DESCRIPTION

The Soil Water index (SWI) product provides continental daily information about moisture conditions in different soil layers. SWI daily images are produced from EUMETSAT ASCAT-25km SSM product in orbit format and include a quality flag indicating the availability of SSM measurements for SWI calculations. Soil moisture is a key parameter in numerous environmental studies including hydrology, meteorology and agriculture. In addition to Surface Soil Moisture (SSM), information on the moisture condition within the underlying soil profile is of interest for different applications. Soil moisture in plant root zone can be estimated by an infiltration model using information on surface soil moisture and soil characteristics. [Read more](#)



DATA FORMAT (ARCHIVE)

Filename convention	g2_BIOPAR_<producttype>_<YYYYMMDDhhmm>_<region>_ASCAT_Vx.y(.z).zip
Typical file names	g2_BIOPAR_SWI_201709010000_AFRI_ASCAT_V3.1.1.zip
Typical file size	2.3 MB
Frequency	1 (per day)

DATA FORMAT (NETCDF4)

Filename convention	g2_BIOPAR_<producttype>_<YYYYMMDDhhmm>_<region>_ASCAT_Vx.y.z.nc
Typical file names	g2_BIOPAR_SWI_201709010000_AFRI_ASCAT_V3.1.1.nc

DATA FORMAT (GEOTIFF)

Filename convention	g2_BIOPAR_<producttype>_QL_<YYYYMMDDhhmm>_<region>_ASCAT_Vx.y.z.tif
Typical file names	g2_BIOPAR_SWI_QL_201709010000_AFRI_ASCAT_V3.1.1.tif

DATA FORMAT (XML)

Filename convention	g2_BIOPAR_<producttype>_PRODDESC_<YYYYMMDDhhmm>_<region>_ASCAT _Vx.y.z.xml
Typical file names	g2_BIOPAR_SWI_PRODDESC_201709010000_AFRI_ASCAT_V3.1.1.xml

TECHNICAL DETAILS

Platform	Metop
Orbit type	LEO
Sensor	ASCAT
Sensor Type	Scatterometer
Local Storage Folder	Metop_SWI

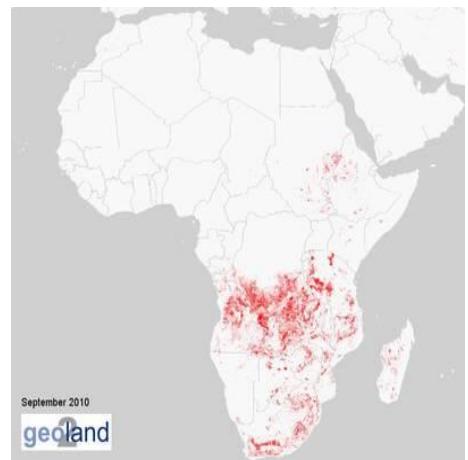
ADDITIONAL INFORMATION

Acronym	SWI
Parameter	Land, Soil Moisture

2. BURNT AREA - PROBA-V – AFRICA

DESCRIPTION

BA or Burnt Area products include information on the first date of burn area since the start of the fire season (1st April), as stored in the so-called BA-DAY dataset, and on the temporal pattern of the fire activity. The input data are daily surface reflectances of PROBA-V VEGETATION sensor. The burnt areas are surfaces which have been sufficiently affected by fire to display significant changes in the vegetation cover (destruction of dry material, reduction or loss of green material) and in the ground surface (temporarily darker because of ash). As fire can occur in any type of environmental context, the properties of the burnt surface may differ significantly from place to place. Therefore, their identification is based on a combination of surface's properties and change detection, i.e. differences in spectral properties before and after the fire occurrence, following refined L3JRC/GBA2000 methods. The BA product is generated every 10 days over Africa as part of the Geoland2 BioPar core mapping service. [Read more](#)



DATA FORMAT (ARCHIVE)

Filename convention c_gls_<producttype>_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y(.z).zip

Typical file names c_gls_BA300_201807100000_AFRI_PROBAV_V1.0.1.zip

Typical file size 55 MB

DATA FORMAT (NETCDF4)

Filename convention c_gls_<producttype>_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y(.z).nc

Typical file names c_gls_BA300_201807100000_AFRI_PROBAV_V1.0.1.nc

Typical file size 55 MB

Frequency 3 (per month)

DATA FORMAT (GEOTIFF)

Filename convention	c_gls_<producttype>_QL_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y(.z).tiff
Typical file names	c_gls_BA300_QL_201807100000_AFRI_PROBAV_V1.0.1.tiff

DATA FORMAT (XML)

Filename convention	c_gls_<producttype>_PRODDESC_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y(.z).xml
Typical file names	c_gls_BA300_PRODDESC_201807100000_AFRI_PROBAV_V1.0.1.xml

DATA FORMAT (TXT)

Filename convention	c_gls_<producttype>_SeasonEventDatabase_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y(.z).txt
Typical file names	c_gls_BA300_SeasonEventDatabase_201807100000_AFRI_PROBAV_V1.0.1.txt

TECHNICAL DETAILS

Platform	PROBA-V
Orbit type	LEO
Sensor	Vegetation-P
Sensor Type	Imager
Local Storage Folder	PROBA_V_BA

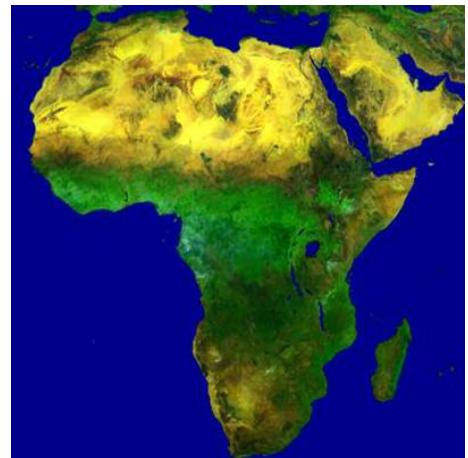
ADDITIONAL INFORMATION

Acronym	BA
Parameter	Fire, Vegetation, Land

3. NORMALISED DIFFERENCE VEGETATION INDEX (NDVI) – SENTINEL-3 – AFRICA

DESCRIPTION

A ratio of the intensity of light reflected off the Earth's surface in the visible and near-infrared spectral wavelengths, which quantifies the photosynthetic capacity of the vegetation in a given pixel of land surface. The input reflectances are corrected for cloud and snow, geometry, atmospheric perturbations and directional effects. From the available global product, this product is a geographic subset over Africa. Access to Copernicus Land Service products is free and open to all users. [Read more](#)



DATA FORMAT (NETCDF, GEOTIFF, XML(ZIPPED))

Filename convention c_gls_<producttype>_<YYYYMMDDh (...)

Typical file names c_gls_NDVI300_202101210000_AFRI_OLCI_V2.0.1.zip

Typical file size 400 MB

Frequency 3 (per month)

TECHNICAL DETAILS

Platform Sentinel-3

Orbit type LEO

Sensor OLCI

Sensor Type Optical

Local Storage Folder NDVIA

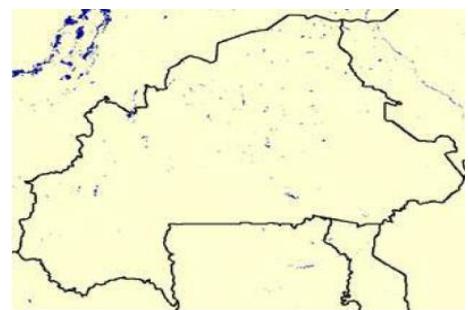
ADDITIONAL INFORMATION

Acronym	NDVIA
Parameter	Vegetation, Land

4. WATER BODIES V1 - PROBA-V – AFRICA

DESCRIPTION

Version 1 of Water bodies describes the state of small ponds in dry regions. The Global Vegetation Monitoring Unit of JRC has developed a method to map and monitor small inland water bodies in arid regions using low resolution satellite imagery from the VEGETATION instrument. Although this instrument provides images of the Earth with a 1-km resolution, it was demonstrated that it is sufficient to accurately map and monitor the presence of water in natural and artificial ponds and swamps of about 1 sq km in size. The accuracy obtained is in the order of 90%, i. e. 90% of the water bodies detected with the method over an area of 1 million 1 sq km were found to be correct. [Read more](#)



DATA FORMAT (GEOTIFF, TXT, XML)

Filename convention g2_BIOPAR_<producttype>_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y(.z).zip

Typical file names g2_BIOPAR_WB_201704110000_AFRI_PROBAV_V1.4.zip

Typical file size 12.0 MB

Frequency 3 (per month)

TECHNICAL DETAILS

Platform PROBA-V

Orbit type LEO

Sensor Vegetation-P

Sensor Type Imager

Local Storage Folder PROBA_V_SWB

ADDITIONAL INFORMATION

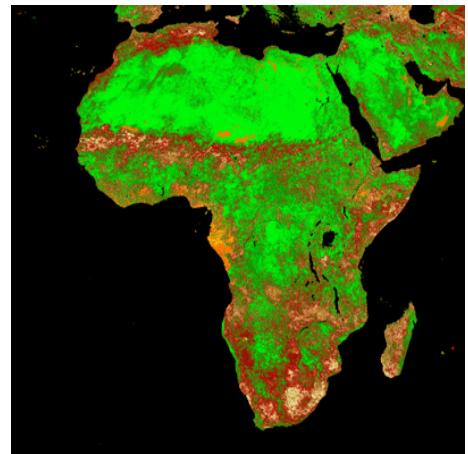
Acronym SWB

Parameter Vegetation, Land

5. VEGETATION CONDITION INDEX - PROBA-V – AFRICA

DESCRIPTION

The Vegetation Condition Indicator (VCI) is a categorical type of difference vegetation index. The VCI compares the observed NDVI to the range of values observed in the same period in previous years. The VCI is expressed in % and gives an idea where the observed value is situated between the extreme values (minimum and maximum) in the previous years. Lower and higher values indicate bad and good vegetation state conditions, respectively. [Read more](#)



DATA FORMAT (ARCHIVE)

Filename convention	g2_BIOPAR_<producttype>_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y.zip
Typical file names	g2_BIOPAR_VCI_201705110000_AFRI_PROBAV_V1.0.zip
Typical file size	30 MB
Frequency	3 (per month)

DATA FORMAT (HDF5)

Filename convention	g2_BIOPAR_<producttype>_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y.h5
Typical file names	g2_BIOPAR_VCI_201705110000_AFRI_PROBAV_V1.0.h5

DATA FORMAT (GEOTIFF)

Filename convention	g2_BIOPAR_<producttype>_QL_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y.tif
Typical file names	g2_BIOPAR_VCI_QL_201705110000_AFRI_PROBAV_V1.0.tif

DATA FORMAT (XML)

Filename convention	g2_BIOPAR_<producttype>_PRODDESC_<YYYYMMDDhhmm>_<region>_PROBA_V_Vx.y.xml
Typical file names	g2_BIOPAR_VCI_PRODDESC_201705110000_AFRI_PROBAV_V1.0.xml

DATA FORMAT (XSL)

Filename convention	g2_BIOPAR_VITO_ProductSet.xsl
Typical file names	g2_BIOPAR_VITO_ProductSet.xsl

DATA FORMAT (TXT)

Filename convention	g2_BIOPAR_VITO_RIG.txt
Typical file names	g2_BIOPAR_VITO_RIG.txt

TECHNICAL DETAILS

Platform	PROBA-V
Orbit type	LEO
Sensor	Vegetation-P
Sensor Type	Imager
Local Storage Folder	PROBA_V_VCI

ADDITIONAL INFORMATION

Acronym	VCI
Parameter	Vegetation, Land

6. WATER BODIES V2 - PROBA-V - SOUTH AMERICA

DESCRIPTION

Version 2 of Water bodies (WB) is a 10-day synthesis product that detects inland water bodies across the globe by calculating 10-daily Mean Composites from daily Top-Of-Canopy reflectance inputs, performing a colorimetric transformation from RGB to HSV colour space and applying different thresholds for the Hue and Value component. [Read more](#)



DATA FORMAT (ARCHIVE)

Filename convention	g2_BIOPAR_<producttype>_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y
Typical file names	g2_BIOPAR_WB_201708210000_SOAM_PROBAV_V2.0.1.zip

DATA FORMAT (GEOTIFF)

Filename convention	g2_BIOPAR_<producttype>-QUAL_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y
Typical file names	g2_BIOPAR_WB-QUAL_201708210000_SOAM_PROBAV_V2.0.1.tif

DATA FORMAT (GEOTIFF)

Filename convention	g2_BIOPAR_<producttype>-QUAL_QL_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y
Typical file names	g2_BIOPAR_WB-QUAL_QL_201708210000_SOAM_PROBAV_V2.0.1.tif

DATA FORMAT (GEOTIFF)

Filename convention	g2_BIOPAR_<producttype>-WB_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y
Typical file names	g2_BIOPAR_WB-WB_201708210000_SOAM_PROBAV_V2.0.1.tif

DATA FORMAT (XML)

Filename convention	g2_BIOPAR_<producttype>_PROD-DESC_<YYYYMMDDhhmm>_<region>_PROBAV_Vx.y
Typical file names	g2_BIOPAR_WB_PROD-DESC_201705110000_SOAM_PROBAV_V2.0.1.xml

DATA FORMAT (XSL)

Typical file names	g2_BIOPAR_VITO_ProductSet.xsl
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DATA FORMAT (TXT)

Typical file names	g2_BIOPAR_VITO_ProductSet.xsl
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TECHNICAL DETAILS

Platform	PROBA-V
Orbit type	LEO
Sensor	Vegetation-P
Sensor Type	Imager
Local Storage Folder	PROBA_V_SWB

ADDITIONAL INFORMATION

Acronym	WB
Parameter	Land

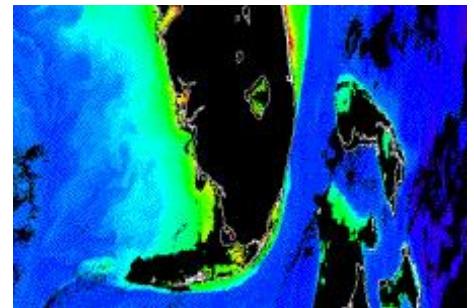


CHANNEL: **A1C – TPC – 6**

1. CHLOROPHYLL ALPHA (MODIS, MAPPED 4KM) – AQUA

DESCRIPTION

MODIS provides the unprecedented ability to measure chlorophyll fluorescence, which gives insight into the health of phytoplankton in the ocean. When phytoplankton are under stress, they no longer photosynthesize and begin to emit absorbed sunlight as fluorescence. Measurements of the chlorophyll fluorescence can be used to describe the physiological state of the phytoplankton, help to determine the cause of phytoplankton bloom collapses and help to make more robust estimates of primary productivity on a global scale. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention <instrumentidentifier><YYYYDOY>.<processinglevel_mapped>_<period>_<physicalparameter>_<resolution>.nc

Typical file name A2017210.L3m_DAY_CHL_chlor_a_4km.nc

Typical file size 10 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Platform Aqua

Orbit type LEO

Sensor MODIS

Sensor Type Spectro-radiometer

Local Storage Folder AQUA_CHLORA

ADDITIONAL INFORMATION

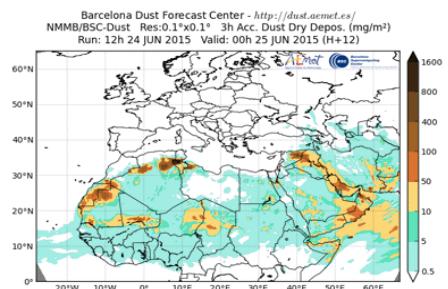
Acronym CHLORA

Parameter Vegetation, Ocean, Ocean Colour

2. DUST DRY DEPOSITION - NMMB/BSC-DUST MODEL

DESCRIPTION

Forecast of dust dry deposition for lead times between 12 and 72 hours every 6 hours. [Read more](#)



DATA FORMAT (GIF)

Filename convention	<YYYYMMDDhh>-3H_SDSWAS_NMMB-BSC-v2_OPER-<product>-<hh>.gif
Typical file names	2017081312-3H_SDSWAS_NMMB-BSCv2_OPER-DUST_DEPD-12.gif
Typical file size	75 KB
Frequency	11 (per day)

TECHNICAL DETAILS

Local Storage Folder	DUST_DDD
-----------------------------	----------

ADDITIONAL INFORMATION

Acronym	DDD
Collection ID	EO:EUM:DAT:MODEL:DDD
Parameter	Forecasts, Aerosol, Atmosphere, Model

3. DUST FORECAST - MODEL

DESCRIPTION

72-hour forecast of different parameters associated with airborne mineral dust. Model: NMMB/BSCDust. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention <DATETIME>_3H_SDSWAS_NMMBBSC-v2_EUMETCAST.nc<DATETIME>= model run in YYYYMMDDHH UTC

Typical file names 2018092412_3H_SDSWAS_NMMB-BSCv2_EUMETCAST.nc

Typical file size 6.5 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Local Storage Folder DUST_DF

ADDITIONAL INFORMATION

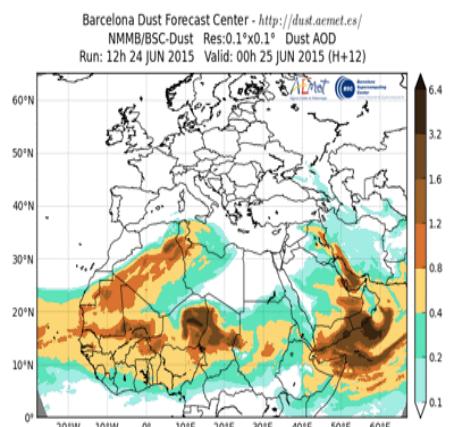
Acronym DF

Parameter Forecasts, Aerosol

4. DUST LOAD - NMMB/BSC-DUST MODEL

DESCRIPTION

Forecast of columnar dust load for lead times between 12 and 72 hours every 6 hours. [Read more](#)



DATA FORMAT (GIF)

Filename convention <YYYYMMDDhh>-3H_SDSWAS_NMMB-BSC-v2_OPER-<product>-<hh>.gif

Typical file names 2017081512-3H_SDSWAS_NMMB-BSCv2_OPER-DUST_LOAD-12.gif

Typical file size 75 KB

Frequency 11 (per day)

TECHNICAL DETAILS

Local Storage Folder DUST_DLO

ADDITIONAL INFORMATION

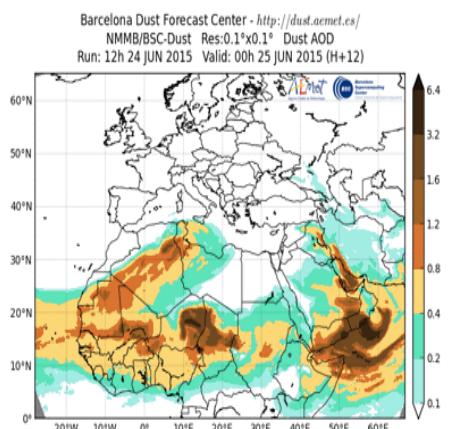
Acronym DLO

Parameter Forecasts, Aerosol, Atmosphere, Mode

5. DUST OPTICAL DEPTH AT 550 NM - NMMB/BSC-DUST MODEL

DESCRIPTION

Forecast of dust optical depth at 550 nm for lead times between 12 and 72 hours every 6 hours. [Read more](#)



DATA FORMAT (GIF)

Filename convention <YYYYMMDDhh>-3H_SDSWAS_NMMB-BSC-v2_OPER-<product>-<hh>.gif

Typical file names 2017081312-3H_SDSWAS_NMMB-BSCv2_OPER-OD550_DUST-12.gif

Typical file size 75 KB

Frequency 11 (per day)

TECHNICAL DETAILS

Local Storage Folder DUST_DOD

ADDITIONAL INFORMATION

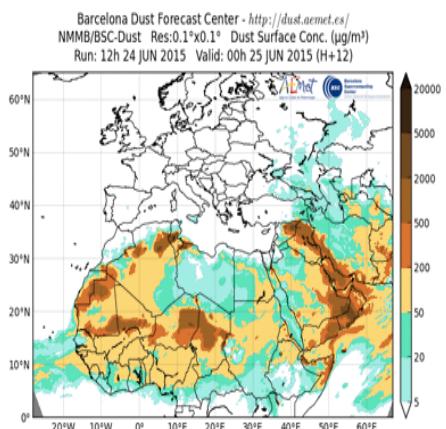
Acronym DOD

Parameter Forecasts, Aerosol, Atmosphere, Model

6. DUST SURFACE CONCENTRATION - NMMB/BSC-DUST MODEL

DESCRIPTION

Forecast of dust surface concentration for lead times between 12 and 72 hours every 6 hours. [Read more](#)



DATA FORMAT (GIF)

Filename convention <YYYYMMDDhh>-3H_SDSWAS_NMMB-BSC-v2_OPER-<product>-<hh>.gif

Typical file names 2017081312-3H_SDSWAS_NMMB-BSC-v2_OPER-SCONC_DUST-12.gif

Typical file size 75 KB

Frequency 11 (per day)

TECHNICAL DETAILS

Local Storage Folder DUST_DSC

ADDITIONAL INFORMATION

Acronym DSC

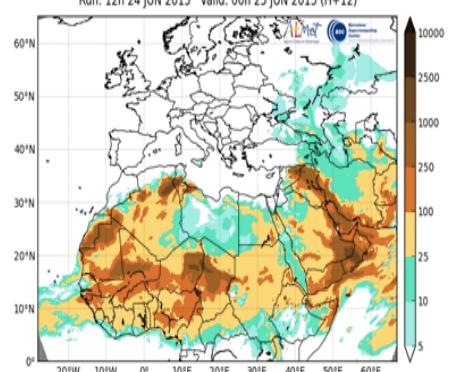
Parameter Forecasts, Aerosol, Atmosphere, Model

7. DUST SURFACE EXTINCTION AT 550 NM - NMMB/BSC-DUST MODEL

DESCRIPTION

Forecast of dust surface extinction at 550 nm for lead times between 12 and 72 hours every 6 hours [Read more](#)

Barcelona Dust Forecast Center - <http://dust.aemet.es/>
NMMB/BSC-Dust Res:0.1°x0.1° Dust Surface Ext. (Mm⁻¹)
Run: 12h 24 JUN 2015 Valid: 00h 25 JUN 2015 (H+12)



DATA FORMAT (GIF)

Filename convention	<YYYYMMDDhh>-3H_SDSWAS_NMMB-BSC-v2_OPER-<product>-<hh>.gif
Typical file names	2017081412-3H_SDSWAS_NMMB-BSCv2_OPER-DUST_EXT_SFC-12.gif
Typical file size	75 KB
Frequency	11 (per day)

TECHNICAL DETAILS

Local Storage Folder	DUST_DSE
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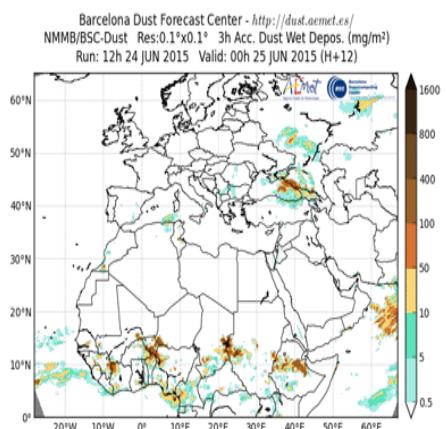
ADDITIONAL INFORMATION

Acronym	DSE
Parameter	Forecasts, Aerosol, Atmosphere, Model

8. DUST WET DEPOSITION - NMMB/BSC-DUST MODEL

DESCRIPTION

Forecast of dust wet deposition for lead times between 12 and 72 hours every 6 hours. [Read more](#)



DATA FORMAT (GIF)

Filename convention	<YYYYMMDDhh>-3H_SDSWAS_NMMB-BSC-v2_OPER-<product>-<hh>.gif
Typical file names	2017081412-3H_SDSWAS_NMMB-BSC-v2_OPER-DUST_DEPW-12.gif
Typical file size	75 KB
Frequency	11 (per day)

TECHNICAL DETAILS

Local Storage Folder	DUST_DWD
-----------------------------	----------

ADDITIONAL INFORMATION

Acronym	DWD
Parameter	Forecasts, Aerosol, Atmosphere, Model

9. UG-MESA POTENTIAL FISHING ZONE MAPS

DESCRIPTION

The PFZ chart is developed from a Generalized Additive Model built from a binomial distribution family with a probit link function. Parameters for developing the model were presence- absence data of fish catch data from logbooks and a suite of environmental datasets covering the equatorial Atlantic. The charts are generated daily with surface temperature (SST), sea surface heights (SSH), geostrophic currents (UV) and salinity (SSS) datasets as inputs into the model. The PFZ chart shows the probability of occurrence of pelagic fish in the equatorial Atlantic. The pixel values range from 0% to 100% which indicates the probability of finding the optimal conditions preferred by pelagic fishes. [Read more](#)



DATA FORMAT (GEOTIFF)

Filename convention MESA-UG_<product>_<YYYYMMDD>_<YYYYMMDD>_00.tif

Typical file names MESA-UG_PFZ_20171014_20171020_00.tif

Typical file size 1.1 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Local Storage Folder MESA_UG_PFZ

ADDITIONAL INFORMATION

Acronym MESA-UG_PFZ

Parameter Forecasts, Model

10. SEA SURFACE SALINITY FORECAST - WEST AFRICA

DESCRIPTION

Forecast maps of sea surface salinity (SAL) are generated by the ECOWAS Coastal and Marine Resources Management Centre from data obtained from the Operational Mercator global Ocean analysis system via the Copernicus programme at a resolution of 1/12 (0.08) degree. Forecasting of ocean

weather is done for a 7-day period including a nowcast product for the present day. The forecast products are generated daily with a geographical area coverage of latitude 10 degrees south to 30 degrees north and longitude 35 degrees west to 15 degrees east. This covers the coastal and oceanic waters of western Africa. Forecast products are updated daily for the seventh day (number of files per day = 1). Further information about this forecast data can be obtained from www.marine.copernicus.eu. [Read more](#)



DATA FORMAT (GEOTIFF)

Filename convention MESAUG_<product>_<YYYYMMDD>_<YYYYMMDD>_00.tif

Typical file names MESA-UG_SAL_20171021_20171027_00.tif

Typical file size 2 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Local Storage Folder MESA-UG_SAL

ADDITIONAL INFORMATION

Acronym MESA-UG_SAL

Parameter Forecasts, Model

11. SEA SURFACE CURRENTS FORECAST - WEST AFRICA

DESCRIPTION

Forecast maps of sea surface currents (SSC) are generated by the ECOWAS Coastal and Marine Resources Management Centre from data obtained from the Operational Mercator global Ocean analysis system via the Copernicus programme at a resolution of 1/12 (0.08) degree. Forecasting of ocean weather is done for a 7-day period including a nowcast product for the present day. The forecast products are generated daily with a geographical area coverage of latitude 10 degrees south to 30 degrees north and longitude 35 degrees west to 15 degrees east. This covers the coastal and oceanic waters of western Africa. Forecast products are updated daily for the seventh day (number of files per day = 1). Further information about this forecast data can be obtained from www.marine.copernicus.eu. [Read more](#)



DATA FORMAT (GEOTIFF)

Filename convention MESAUG_<product>_<YYYYMMDD>_<YYYYMMDD>_00.tif

Typical file names MESA-UG_SSC_20171021_20171027_00.tif

Typical file size 2 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Local Storage Folder MESA-UG_SSC

ADDITIONAL INFORMATION

Acronym MESA-UG_SSC

Parameter Forecasts, Model

12. SEA SURFACE HEIGHTS FORECAST - WEST AFRICA

DESCRIPTION

Forecast maps of sea surface height (SSH), are generated by the ECOWAS Coastal and Marine Resources Management Centre from data obtained from the Operational Mercator global Ocean analysis system via the Copernicus programme at a resolution of 1/12 (0.08) degree. Forecasting of ocean weather is done for a 7-day period including a nowcast product for the present day. The forecast products are generated daily with a geographical area coverage of latitude 10 degrees south to 30 degrees north and longitude 35 degrees west to 15 degrees east. This covers the coastal and oceanic waters of western Africa. Forecast products are updated daily for the seventh day (number of files per day = 1). Further information about this forecast data can be obtained from www.marine.copernicus.eu **Read more**



DATA FORMAT (GEOTIFF)

Filename convention MESAUG_<product>_<YYYYMMDD>_<YYYYMMDD>_00.tif

Typical file names MESA-UG_SSH_20171021_20171027_00.tif

Typical file size 2 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Local Storage Folder MESA-UG_SSH

ADDITIONAL INFORMATION

Acronym MESA-UG_SSH

Parameter Forecasts, Model

13. WAVE HEIGHT FORECAST - WEST AFRICA

DESCRIPTION

Charts of wave forecast are generated from operational wave ensemble forecast produced by the National centre for Environmental Prediction (NCEP) of the National Oceanic and Atmospheric Administration (NOAA). The forecast data is produced using global AWIPS grid with a resolution of 0.5 degrees. NCEP wave forecasts products are produced for a 5-day period on hourly bases. Daily average of wave forecasts are however generated for the 5 days from the hourly products by the ECOWAS Coastal and Marine Resources Management Centre. The forecast products are generated daily with a geographical area coverage of latitude 10 degrees south to 30 degrees north and longitude 35 degrees west to 15 degrees east. This covers the coastal and oceanic waters of western Africa. Five (5) files are generated daily for the five forecasts days. Further information about this forecast data can be obtained from <http://www.nco.ncep.noaa.gov/pmb/products/wave/>. [Read more](#)



DATA FORMAT (GEOTIFF)

Filename convention MESAUG_<product>_<YYYYMMDD>_<YYYYMMDD>_00.tif

Typical file name MESA-UG_SWH_20171003_20171004_00.tif

Typical file size 1 MB

Frequency 5 (per day)

TECHNICAL DETAILS

Local Storage Folder MESA-UG_SWH

ADDITIONAL INFORMATION

Acronym MESA-UG_SWH

Parameter Forecasts, Model

14. SEA SURFACE TEMPERATURE FORECAST - WEST AFRICA

DESCRIPTION

Forecast maps of sea surface temperature (SST) are generated by the ECOWAS Coastal and Marine Resources Management Centre from data obtained from the Operational Mercator global Ocean analysis system via the Copernicus programme at a resolution of 1/12 (0.08) degree. Forecasting of ocean weather is done for a 7-day period including a nowcast product for the present day. The forecast products are generated daily with a geographical area coverage of latitude 10 degrees south to 30 degrees north and longitude 35 degrees west to 15 degrees east. This covers the coastal and oceanic waters of western Africa. Forecast products are updated daily for the seventh day (number of files per day = 1). Further information about this forecast data can be obtained from www.marine.copernicus.eu **Read more**



DATA FORMAT (GEOTIFF)

Filename convention MESA-UG_<product>_<YYYYMMDD>_<YYYYMMDD>_00.tif

Typical file names MESA-UG_SST_20171021_20171027_00.tif

Typical file size 2 MB

Frequency 1 (per day)

TECHNICAL DETAILS

Local Storage Folder MESA-UG_SST

ADDITIONAL INFORMATION

Acronym MESA-UG_SST

Parameter Forecasts, Model

15. PHOTOSYNTHETICALLY AVAILABLE RADIATION – MODIS

DESCRIPTION

The algorithm estimates daily average photosynthetically available radiation (PAR) at the ocean surface in Einstein m⁻² d⁻¹. PAR is defined as the quantum energy flux from the Sun in the 400-700nm range. For ocean color applications, PAR is a common input used in modeling marine primary productivity. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention <instrument-identifier><YYYYDOY>.<processing-level_mapped>_<period>_<physical-parameter>_<resolution>.nc

Typical file names A2017291.L3m_DAY_PAR_par_4km.nc

Typical file size 29 MB

Frequency 2 (per day)

TECHNICAL DETAILS

Platform Aqua, Terra

Orbit type LEO

Sensor MODIS

Sensor Type Spectro-radiometer

Local Storage Folder MODIS_MOD_PAR

ADDITIONAL INFORMATION

Acronym MOD-PAR

Parameter Ocean, Ocean Colour

16. DIFFUSE ATTENUATION COEFFICIENT FOR DOWNWELLING IRRADIANCE AT 490 NM – MODIS

DESCRIPTION

The algorithm returns the diffuse attenuation coefficient for downwelling irradiance at 490 nm (Kd_490) in m-1, calculated using an empirical relationship derived from in situ measurements of Kd_490 and blue-to-green band ratios of remote sensing reflectances (Rrs). [Read more](#)



DATA FORMAT (NETCDF)

Filename convention <instrument-identifier><YYYYDOY>.<processing-level_mapped>_<period>_<physical-parameter>_<resolution>.nc

Typical file name A2017165.L3m_DAY_KD490_Kd_490_4km.nc

Typical file size 3 MB

Frequency 2 (per day)

TECHNICAL DETAILS

Platform Aqua, Terra

Orbit type LEO

Sensor MODIS

Sensor Type Spectro-radiometer

Local Storage Folder MODIS_MOD-KD-490

ADDITIONAL INFORMATION

Acronym MOD-KD-490

Parameter Ocean, Ocean Colour

17. LONG-WAVE SEA SURFACE TEMPERATURE – MODIS

DESCRIPTION

NASA standard processing and distribution of the Sea Surface Temperature (SST) products from the MODIS sensors is now performed using software developed by the Ocean Biology Processing Group (OBPG). The OBPG generates Level-2 SST products using the Multi-Sensor Level-1 to Level-2 software (l2gen), which is the same software used to generate MODIS ocean color products. The longwave SST algorithm makes use of MODIS bands 31 and 32 at 11 and 12 nm. The brightness temperatures are derived from the observed radiances by inversion (in linear space) of the radiance versus blackbody temperature relationship. [Read more](#)



DATA FORMAT (NETCDF)

Filename convention <instrumentidentifier><YYYYDOY>.<processing-levelmapped>_<period>_<physicalparameter>_<resolution>.nc

Typical file name A2017212.L3m_DAY_SST_sst_4km.nc

Typical file size 12 MB

Frequency 2 (per day)

TECHNICAL DETAILS

Platform Aqua, Terra

Orbit type LEO

Sensor MODIS

Sensor Type Spectro-radiometer

Local Storage Folder MODIS_MOD-SST

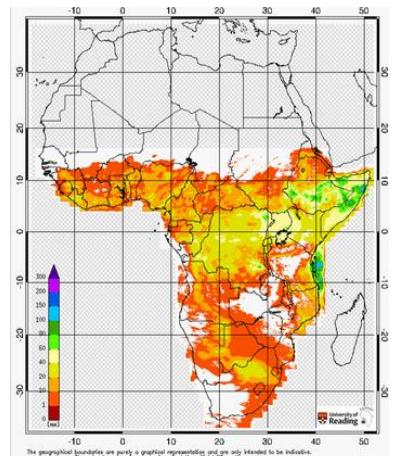
ADDITIONAL INFORMATION

Acronym	MOD-SST
Parameter	Ocean, Sea Surface Temperature

18. RAINFALL ESTIMATE FOR AFRICA – MSG

DESCRIPTION

Dekadal (every 10 days) and monthly rainfall estimates and anomalies derived from Meteosat Thermal Infra-Red (TIR) channels based on the recognition of storm clouds and calibration against ground-based rain gauge data. [Read more](#)



DATA FORMAT (NETCDF4)

Filename convention rfe<YYYY>_<MM>-dk<D>.nc

Typical file name rfe2017_04-dk3.nc

Typical file size 7.3 MB

Frequency 3 (per month)

DATA FORMAT (NETCDF4)

Filename convention rfe<YYYY>_<MM>.nc

Typical file name rfe2017_04.nc

Typical file size 7.3 MB

Frequency 1 (per month)

DATA FORMAT (PNG)

Filename convention rfe<YYYY>_<MM>-dk<D>.png

Typical file name rfe2017_04-dk3.png

Typical file size 80.0 KB

Frequency 3 (per month)

DATA FORMAT (PNG)

Filename convention rfe<YYYY>_<MM>.png

Typical file name rfe2017_04.png

Typical file size 80.0 KB

Frequency 1 (per month)

DATA FORMAT (NETCDF4)

Filename convention rfe<YYYY>_<MM>-dk<D>_anom.nc

Typical file name rfe2017_04-dk3_anom.nc

Typical file size 7.3 MB

Frequency 3 (per month)

DATA FORMAT (NETCDF4)

Filename convention rfe<YYYY>_<MM>_anom.nc

Typical file name rfe2017_04_anom.nc

Typical file size 7.3 MB

Frequency 1 (per month)

DATA FORMAT (PNG)

Filename convention rfe<YYYY>_<MM>-dk<D>_anom.png

Typical file name rfe2017_04-dk3_anom.png

Typical file size 80.0 KB

Frequency 3 (per month)

DATA FORMAT (PNG)

Filename convention rfe<YYYY>_<MM>_anom.png

Typical file name rfe2017_04_anom.png

Typical file size 80.0 KB

Frequency 1 (per month)

TECHNICAL DETAILS

Platform MSG

Orbit type GEO

Sensor SEVIRI

Sensor Type Optical

Local Storage Folder MSG_RFE

ADDITIONAL INFORMATION

Acronym RFE

Parameter Precipitation, Atmosphere

19. IMAGE DATA – LANDSAT

DESCRIPTION

Land application products for Central Africa from OSFAC (Observatoire Satellital des Forêts d'Afrique Centrale). Landsat L1T (terrain corrected) data from the Landsat 7 satellite. The Level 1T (L1T) data product provides systematic radiometric and geometric accuracy by incorporating ground control points, while also employing a Digital Elevation Model (DEM) for topographic accuracy. Geodetic accuracy of the product depends on the accuracy of the ground control points and the resolution of the DEM used. All Landsat 7 scenes collected since May of 2003 have data gaps. Although the scenes have only 78 percent of their pixels, these data are still some of the most geometrically and radiometrically accurate of all civilian satellite data in the world. [Read more](#)



DATA FORMAT (GEOTIFF)

Filename convention

LXSS_LLLL_PPPRRR_YYYYMMDD_yyyymmdd_CC_TX_B.TIF.bz2 where L = Landsat, X = SENSOR (C=OLI/TIRS combined, O=OLI only, T=TIRS only, E=ETM+, T=TM, M=MSS), SS = Satellite (07=Landsat7, 08=Landsat 8), LLLL = Processing Correction Level (L1TP, L1GT, L1GS), PPP = WRS path, RRR = WRS row, YYYYMMDD = Acquisition date, yyyymmdd = Processing date, CC = Collection number (e.g. 01, 02), TX = Collection Category (RT=Real Time, T1=Tier 1, T2=Tier 2), B = Spectral Band number (e.g. B1, B2, B3, etc.)

Typical file name LC08_L1TP_171068_20170710_20170725_01_T1_B10.TIF.bz2
LC08_L1TP_171068_20170710_20170725_01_T1_B1.TIF.bz2

Typical file size 180.0 MB

Frequency 1 set (per day)

TECHNICAL DETAILS

Platform Landsat

Orbit type LEO

Sensor ETM+

Sensor Type Optical

**Local Storage
Folder** UMDL1T

ADDITIONAL INFORMATION

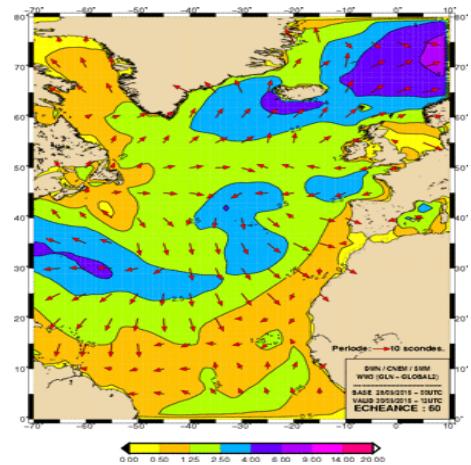
Acronym UMDL1T

Parameter Level 1 Data

20. WAVE WATCH III PRODUCTS - MODEL - NORTH ATLANTIC OCEAN

DESCRIPTION

Maps of swell (height, period and direction) of the model WAVE WATCH III Version 2.22 until 60 hours of forecasting with $1^{\circ} \times 1^{\circ}$ of resolution. [Read more](#)



DATA FORMAT (GIF)

Filename convention dmn_ww3_<YYYYMMDD>_<hh>_<hh>.gif

Typical file names dmn_ww3_20171004_12_60.gif

Typical file size 652 KB

Frequency 21 (at 08:30, 19:00)

TECHNICAL DETAILS

Local Storage Folder WW3NAO

ADDITIONAL INFORMATION

Acronym WW3NAO

Parameter Wave, Model, Ocean

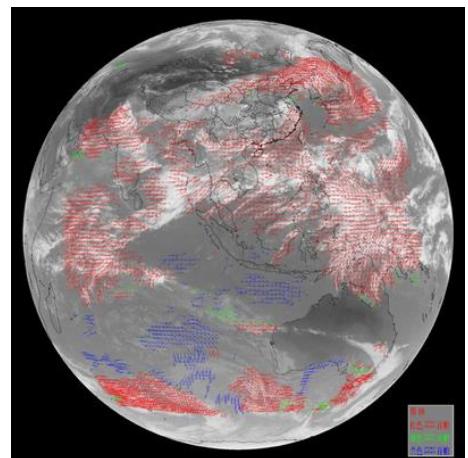


CHANNEL:
A1C – TPG – 1

1. ATMOSPHERIC MOTION VECTORS IR1 AND IR3 - FENG-YUN - 2G

DESCRIPTION

Atmospheric motion vectors (AMVs) are a valuable observation type for providing dynamical information for forecast models. They are produced by tracking clouds or gradients in water vapour through successive satellite images. AMVs have been assimilated in forecast models since the 1980s. Traditionally they are generated using imagery from geostationary satellites, which monitor a constant region of the Earth. AMVs are produced at several centres including EUMETSAT in Europe, NESDIS in the USA, JMA in Japan, CMA in China and IMD in India. [Read more](#)



DATA FORMAT (AWX)

Filename convention	Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection>.AWX.gz
Typical file names	Z_SATE_C_BABJ_20170424173000_O_FY2G_AMV_IR3_006_OTG.AWX.gz Z_SATE_C_BABJ_20170424173000_O_FY2G_AMV_IR1_006_OTG.AWX.gz

Typical file size 3.0 MB

Frequency 4 (per day), 6 hourly

TECHNICAL DETAILS

Platform	Feng-Yun - 2
Orbit type	GEO
Sensor	S-VISSL
Sensor Type	Optical
Local Storage Folder	FY2G_AMV

ADDITIONAL INFORMATION

Acronym	FY2G-AMV
Parameter	Wind, Atmosphere

2. CLOUD CLASSIFICATION PRODUCT - FENG-YUN - 2G

DESCRIPTION

Cloud Classification Product. [Read more](#)



DATA FORMAT (AWX)

Filename convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection>.AWX.gz

Typical file names Z_SATE_C_BABJ_20170522000000_O_FY2G_CLT_MLT_001_NOM.AWX.gz

Typical file size 1.0 MB

Frequency 24 (per day)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2G_CLT

ADDITIONAL INFORMATION

Acronym FY2G-CLT

Parameter Atmosphere, Cloud

3. TOTAL CLOUD AMOUNT PRODUCT - FENG-YUN - 2G

DESCRIPTION

Total Cloud Amount Product. [Read more](#)



DATA FORMAT (AWX)

Filename convention	Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>_<level>.AWX.gz
Typical file names	Z_SATE_C_BABJ_20171005150000_O_FY2G_CTA_MLT_001_NOM.AWX.gz
Typical file size	1.0 MB
Frequency	24 (per day)

TECHNICAL DETAILS

Platform	Feng-Yun - 2
Orbit type	GEO
Sensor	S-VISSLR
Sensor Type	Optical
Local Storage Folder	FY2G_CTA

ADDITIONAL INFORMATION

Acronym	FY2G-CTA
Parameter	Atmosphere, Cloud

4. HUMIDITY PRODUCT ANALYSED BY CLOUD INFORMATION - FENG-YUN - 2G

DESCRIPTION

Humidity product analysed by cloud information Product. [Read more](#)



DATA FORMAT (AWX)

Filename convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>_<level>.AWX.gz

Z_SATE_C_BABJ_20170821090000_O_FY2G_HPF_MLT_003_NOM_300hPa.AWX.gz

Z_SATE_C_BABJ_20170821090000_O_FY2G_HPF_MLT_003_NOM_400hPa.AWX.gz

Z_SATE_C_BABJ_20170821090000_O_FY2G_HPF_MLT_003_NOM_925hPa.AWX.gz

Typical file names Z_SATE_C_BABJ_20170821090000_O_FY2G_HPF_MLT_003_NOM_850hPa.AWX.gz

Z_SATE_C_BABJ_20170821090000_O_FY2G_HPF_MLT_003_NOM_500hPa.AWX.gz

Z_SATE_C_BABJ_20170821090000_O_FY2G_HPF_MLT_003_NOM_700hPa.AWX.gz

Z_SATE_C_BABJ_20170821090000_O_FY2G_HPF_MLT_003_NOM_1000hPa.AWX.gz

Typical file size 1.0 MB

Frequency 56 (per day)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2G_HPF

ADDITIONAL INFORMATION

Acronym FY2G-HPF

Parameter Atmosphere, Humidity

5. OUTGOING LONGWAVE RADIATION PRODUCT - FENG-YUN - 2G

DESCRIPTION

Outgoing Longwave Radiation Product - 3 hours; 5, 10 and 30 days.

[Read more](#)



DATA FORMAT (AWX)

Filename convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>.AWX.gz

Typical file names
 Z_SATE_C_BABJ_20171017000000_O_FY2G_OLR_MLT_003_NOM.AWX.gz
 Z_SATE_C_BABJ_20170731000000_O_FY2G_OLR_MLT_720_NOM.AWX.gz
 Z_SATE_C_BABJ_20170731000000_O_FY2G_OLR_MLT_120_NOM.AWX.gz
 Z_SATE_C_BABJ_20170731000000_O_FY2G_OLR_MLT_240_NOM.AWX.gz
 Z_SATE_C_BABJ_20171017000000_O_FY2G_OLR_MLT_024_NOM.AWX.gz

Typical file size 3.0 MB

Frequency 8 (per day) and 6, 3, 1 (per month)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSR

Sensor Type Optical

Local Storage Folder FY2G_OLR

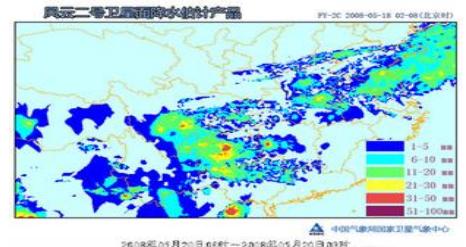
ADDITIONAL INFORMATION

Acronym	FY2G-OLR
Parameter	Atmosphere, Radiation

6. PRECIPITATION ESTIMATION PRODUCT - 6 & 24 HOURS - FENG-YUN - 2G

DESCRIPTION

Precipitation estimation product - 6 and 24 hours. [Read more](#)



DATA FORMAT (AWX)

Filename convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<generation-time>_<projection-mode>.AWX.gz

Typical file names Z_SATE_C_BABJ_20171018000000_O_FY2G_PRE_024_NOM.AWX.gz
Z_SATE_C_BABJ_20171018000000_O_FY2G_PRE_006_NOM.AWX.gz

Typical file size 1.0 MB

Frequency 1 or 4 (per day)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2G_PRE

ADDITIONAL INFORMATION

Acronym FY2G-PRE

Parameter Precipitation, Atmosphere

7. SURFACE SOLAR IRRADIANCE PRODUCT - FENG-YUN - 2G

DESCRIPTION

Surface Solar Irradiance Product. [Read more](#)



DATA FORMAT (AWX)

Filename convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>_<level>.AWX.gz

Typical file names Z_SATE_C_BABJ_20171001000000_O_FY2G_SSI_VIS_024_OTG.AWX.gz

Typical file size 1.0 MB

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSR

Sensor Type Optical

Local Storage Folder FY2G_SSI

ADDITIONAL INFORMATION

Acronym FY2G-SSI

Parameter Atmosphere, Radiation

8. BLACKBODY BRIGHTNESS TEMPERATURE - FENG-YUN - 2G

DESCRIPTION

Blackbody brightness temperature products are disseminated on an hourly, daily, 5-day, 10-day and 30-day basis. [Read more](#)



DATA FORMAT (AWX)

Filename convention	Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection>.AWX.gz
Typical file names	Z_SATE_C_BABJ_20071130230000_O_FY2G_TBB_IR1_001_NOM.AWX.gz Z_SATE_C_BABJ_20071201010000_O_FY2G_TBB_IR1_120_NOM.AWX.gz Z_SATE_C_BABJ_20071130230000_O_FY2G_TBB_IR1_024_NOM.AWX.gz Z_SATE_C_BABJ_20071201010000_O_FY2G_TBB_IR1_720_NOM.AWX.gz Z_SATE_C_BABJ_20071201010000_O_FY2G_TBB_IR1_240_NOM.AWX.gz
Typical file size	1.0 MB
Frequency	Hourly, 1, 5, 10 or 30 days

TECHNICAL DETAILS

Platform	Feng-Yun - 2
Orbit type	GEO
Sensor	S-VISSL
Sensor Type	Optical
Local Storage Folder	FY2G_TBB

ADDITIONAL INFORMATION

Acronym	FY2G-TBB
Parameter	Atmosphere, Radiation

9. TOTAL PRECIPITABLE WATER PRODUCT - FENG-YUN - 2G

DESCRIPTION

Total Precipitable Water Product. [Read more](#)



DATA FORMAT (AWX)

Filename convention	Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>_<level>.AWX.gz
Typical file names	Z_SATE_C_BABJ_20171002000000_O_FY2G_TPW_MLT_003_NOM.AWX.gz
Typical file size	1.0 MB
Frequency	1 (per day)

TECHNICAL DETAILS

Platform	Feng-Yun - 2
Orbit type	GEO
Sensor	S-VISSLR
Sensor Type	Optical
Local Storage Folder	FY2G_TPW

ADDITIONAL INFORMATION

Acronym	FY2G-TPW
Parameter	Precipitation, Atmosphere

10. SNOW FRACTION PRODUCT - FENG-YUN - 2G

DESCRIPTION

Snow Fraction Product for FengYun 2G. [Read more](#)



DATA FORMAT (AWX)

File name convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>.AWX.gz

Typical file names Z_SATE_C_BABJ_20171001000000_O_FY2G_TSG_MLT_024_OTG.AWX.gz

Typical file size 1.0 MB

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2G_TSG

ADDITIONAL INFORMATION

Acronym FY2G-TSG

Parameter Snow and Ice, Land

11. NORMALIZED GEOSTATIONARY PROJECTION DATASET - FENG-YUN - 2G

DESCRIPTION

Full disk images from the Chinese satellite FengYun 2G. [Read more](#)



DATA FORMAT (awx)

Filename convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>.HDF.gz

Z_SATE_C_BABJ_20170501150000_O_FY2G_FDI_IR1_001_NOM.HDF.gz

Z_SATE_C_BABJ_20170501150000_O_FY2G_FDI_IR3_001_NOM.HDF.gz

Typical file names Z_SATE_C_BABJ_20170501150000_O_FY2G_FDI_IR2_001_NOM.HDF.gz

Z_SATE_C_BABJ_20170501150000_O_FY2G_FDI_VIS1KM_001_NOM.HDF.gz

Z_SATE_C_BABJ_20170501150000_O_FY2G_FDI_IR4_001_NOM.HDF.gz

Z_SATE_C_BABJ_20170501150000_O_FY2G_FDI_VIS_001_NOM.HDF.gz

Typical file size 350.0 KB

Frequency 24 (per day)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder

ADDITIONAL INFORMATION

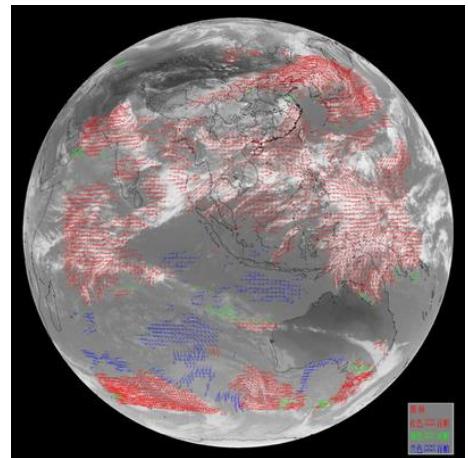
Acronym FY2G-FDI

Parameter Level 1 Data

12. ATMOSPHERIC MOTION VECTORS IR1 AND IR3 - FENG-YUN - 2H

DESCRIPTION

Atmospheric motion vectors (AMVs) are a valuable observation type for providing dynamical information for forecast models. They are produced by tracking clouds or gradients in water vapour through successive satellite images. AMVs have been assimilated in forecast models since the 1980s. Traditionally they are generated using imagery from geostationary satellites, which monitor a constant region of the Earth. AMVs are produced at several centres including EUMETSAT in Europe, NESDIS in the USA, JMA in Japan, CMA in China and IMD in India. [Read more](#)



DATA FORMAT (AWX)

File name convention	Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product_<channel>_<generation-time>_<projection>.AWX.gz
Typical file names	Z_SATE_C_BABJ_20190606140000_O_FY2H_AMV_IR3_006_OTG.AWX.gz Z_SATE_C_BABJ_20190606140000_O_FY2H_AMV_IR1_006_OTG.AWX.gz

Typical file size 166 KB

Frequency 6 hourly (at 03:00, 09:00, 15:00 and 21:00)

TECHNICAL DETAILS

Platform	Feng-Yun - 2
Orbit type	GEO
Sensor	S-VISSL
Sensor Type	Optical
Local Storage Folder	FY2H_AMV

ADDITIONAL INFORMATION

Acronym	FY2H-AMV
Parameter	Wind, Atmosphere

13. CLOUD CLASSIFICATION PRODUCT - FENG-YUN - 2H

DESCRIPTION

Cloud Classification Product. [Read more](#)



DATA FORMAT (AWX)

Filename convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection>.AWX.gz

Typical file names Z_SATE_C_BABJ_20190606140000_O_FY2H_CLT_MLT_001_NOM.AWX.gz

Typical file size 1.0 MB

Frequency 24 (per day)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2G_CLT

ADDITIONAL INFORMATION

Acronym FY2G-CLT

Parameter Atmosphere, Cloud

14. TOTAL CLOUD AMOUNT PRODUCT - FENG-YUN - 2H

DESCRIPTION

Total Cloud Amount Product. [Read more](#)



DATA FORMAT (AWX)

Typical file

names Z_SATE_C_BABJ_20190606140000_O_FY2H_CTA_MLT_001_NOM.AWX.GZ

Typical file size 1.0 MB

Frequency 24 (per day))

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2H_CTA

ADDITIONAL INFORMATION

Acronym FY2H-CTA

Parameter Atmosphere, Cloud

15. HUMIDITY PRODUCT ANALYSED BY CLOUD INFORMATION - FENG-YUN - 2H

DESCRIPTION

Humidity product analysed by cloud information Product. [Read more](#)



DATA FORMAT (AWX)

File name convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection>.AWX.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_HPF_MLT_003_NOM_300hPa.AWX.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_HPF_MLT_003_NOM_700hPa.AWX.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_HPF_MLT_003_NOM_400hPa.AWX.gz

Typical file names Z_SATE_C_BABJ_20190606140000_O_FY2H_HPF_MLT_003_NOM_500hPa.AWX.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_HPF_MLT_003_NOM_1000hPa.AWX.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_HPF_MLT_003_NOM_925hPa.AWX.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_HPF_MLT_003_NOM_850hPa.AWX.gz

Typical file size 1.0 MB

Frequency 8 (*7 products per day)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2H_HPF

ADDITIONAL INFORMATION

Acronym FY2H-HPF

Parameter Atmosphere, Humidity

16. OUTGOING LONGWAVE RADIATION PRODUCT - FENG-YUN - 2H

DESCRIPTION

Outgoing Longwave Radiation Product - 3 hours; 5, 10 and 30 days.

[Read more](#)



DATA FORMAT (AWX)

File name convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>.AWX.gz

Typical file names
 Z_SATE_C_BABJ_20190606140000_O_FY2H_OLR_MLT_120_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_OLR_MLT_024_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_OLR_MLT_240_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_OLR_MLT_720_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_OLR_MLT_003_NOM.AWX.gz

Typical file size 3.0 MB

Frequency 8 and 1 (per day) and 6, 3, 1 (per month)

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSR

Sensor Type Optical

Local Storage Folder FY2H_OLR

ADDITIONAL INFORMATION

Acronym	FY2H-OLR
Parameter	Atmosphere, Radiation

17. PRECIPITATION ESTIMATION PRODUCT - 6 & 24 HOURS - FENG-YUN - 2H

DESCRIPTION

Precipitation estimation product - 6 and 24 hours. [Read more](#)



DATA FORMAT (AWX)

File name convention	Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<generation-time>_<projection-mode>.AWX.gz
Typical file names	Z_SATE_C_BABJ_20190606140000_O_FY2H_PRE_006_NOM.AWX.gz Z_SATE_C_BABJ_20190606140000_O_FY2H_PRE_024_NOM.AWX.gz
Typical file size	1.0 MB
Frequency	1 or 4 (per day)

TECHNICAL DETAILS

Platform	Feng-Yun - 2
Orbit type	GEO
Sensor	S-VISSL
Sensor Type	Optical
Local Storage Folder	FY2H_PRE

ADDITIONAL INFORMATION

Acronym	FY2H-PRE
Parameter	Precipitation, Atmosphere

18. SURFACE SOLAR IRRADIANCE PRODUCT - FENG-YUN - 2H

DESCRIPTION

Surface Solar Irradiance Product. [Read more](#)



DATA FORMAT (AWX)

File name convention	Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>_<level>.AWX.gz
Typical file names	Z_SATE_C_BABJ_20190606140000_O_FY2H_SSI_VIS_024_OTG.AWX.gz
Typical file size	1.0 MB
Frequency	1 (per day)

TECHNICAL DETAILS

Platform	Feng-Yun - 2
Orbit type	GEO
Sensor	S-VISSR
Sensor Type	Optical
Local Storage Folder	FY2H_SSI

ADDITIONAL INFORMATION

Acronym	FY2H-SSI
Parameter	Atmosphere, Radiation

19. BLACKBODY BRIGHTNESS TEMPERATURE - FENG-YUN - 2H

DESCRIPTION

Blackbody brightness temperature products are disseminated on an hourly, daily, 5-day, 10-day and 30-day basis. [Read more](#)



DATA FORMAT (AWX)

File name convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection>.AWX.gz

Typical file names
 Z_SATE_C_BABJ_20190606140000_O_FY2H_TBB_IR1_001_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_TBB_IR1_720_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_TBB_IR1_120_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_TBB_IR1_024_NOM.AWX.gz
 Z_SATE_C_BABJ_20190606140000_O_FY2H_TBB_IR1_240_NOM.AWX.gz

Typical file size 1.0 MB

Frequency Hourly and Daily

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2H_TBB

ADDITIONAL INFORMATION

Acronym FY2H-TBB

Parameter Atmosphere, Radiation

20. TOTAL PRECIPITABLE WATER PRODUCT - FENG-YUN - 2H

DESCRIPTION

Total Precipitable Water Product. [Read more](#)



DATA FORMAT (AWX)

File name convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>_<level>.AWX.gz

Typical file names Z_SATE_C_BABJ_20190606140000_O_FY2H_TPW_MLT_003_NOM.AWX.gz

Typical file size 1.0 MB

Frequency 1 (per day))

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2H_TPW

ADDITIONAL INFORMATION

Acronym FY2H-TPW

Parameter Atmosphere, Cloud

21. SNOW FRACTION PRODUCT - FENG-YUN - 2H

DESCRIPTION

Snow Fraction Product for FengYun 2H. [Read more](#)



DATA FORMAT (AWX)

File name convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>.AWX.gz.

Typical file names Z_SATE_C_BABJ_20190606140000_O_FY2H_TSG_MLT_024_OTG.AWX.gz

Typical file size 1.0 MB

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2H_TSG

ADDITIONAL INFORMATION

Acronym FY2H-TSG

Parameter Snow and Ice, Land

22. NORMALIZED GEOSTATIONARY PROJECTION DATASET - FENG-YUN - 2H

DESCRIPTION

Full disk images from the Chinese satellite FengYun 2E. [Read more](#)



DATA FORMAT (AWX)

File name convention Z_SATE_C_BABJ_<YYYYMMDDhhmmss>_O_<satellite>_<product>_<channel>_<generation-time>_<projection-mode>.HDF.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_FDI_VIS_001_NOM.HDF.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_FDI_IR3_001_NOM.HDF.gz

Typical file names Z_SATE_C_BABJ_20190606140000_O_FY2H_FDI_IR4_001_NOM.HDF.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_FDI_VIS1KM_001_NOM.HDF.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_FDI_IR2_001_NOM.HDF.gz

Z_SATE_C_BABJ_20190606140000_O_FY2H_FDI_IR1_001_NOM.HDF.gz

Typical file size 350.0 KB

Frequency Hourly

TECHNICAL DETAILS

Platform Feng-Yun - 2

Orbit type GEO

Sensor S-VISSL

Sensor Type Optical

Local Storage Folder FY2H_FDI

ADDITIONAL INFORMATION

Acronym FY2H-FDI

Parameter Level 1 Data

23. QUANTITATIVE PRECIPITATION ESTIMATION (GOES PRECIPITATION INDEX) - INSAT-3D

DESCRIPTION

Rainfall from INSAT-3D Imager channels is derived based on two methodologies: (i) Rainfall Estimation by GOES Precipitation Index (GPI) (ii) INSAT Multispectral Rainfall Algorithm. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0300_L2G_GPI.h5

Typical file size 22 KB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_GPI

ADDITIONAL INFORMATION

Acronym INSAT3D-GPI

Parameter Wind, Atmosphere

24. HYDRO ESTIMATOR PRECIPITATION - INSAT-3D

DESCRIPTION

This product is derived on the basis of Hydro-Estimator method. It measures precipitation over Indian Region encompassing the area between longitudes 30°E -to130°E and latitudes 50°N - 50°S. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0900_L2B_HEM.h5

Typical file size 190 KB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_HEM

ADDITIONAL INFORMATION

Acronym INSAT3D-HEM

Parameter Atmosphere, Radiation

25. RAIN RATE (INSAT MULTI-SPECTRAL RAINFALL) - INSAT-3D

DESCRIPTION

Indian Multi Spectral rainfall from IMAGER. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0300_L2G_IMR.h5

Typical file size 300 KB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_IMR

ADDITIONAL INFORMATION

Acronym INSAT3D-IMR

Parameter Precipitation, Land

26. CLOUD MOTION VECTORS (INFRA-RED WIND) - INSAT-3D

DESCRIPTION

Cloud Classification Product. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0300_L2P_IRW.h5

Typical file size 210 KB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_IRW

ADDITIONAL INFORMATION

Acronym INSAT3D-IRW

Parameter Wind, Atmosphere

27. OUTGOING LONGWAVE RADIATION - INSAT-3D

DESCRIPTION

Total outgoing longwave radiation (OLR) flux, thermally emitted from earth atmosphere system, is estimated by applying regression equation relating OLR flux with INSAT-3D Imager observed WV and thermal infrared radiances. The coefficients of the regression equations are determined from results of the Radiative Transfer Model simulation with various atmospheric conditions. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0300_L2B_OLR.h5

Typical file size 26 MB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_OLR

ADDITIONAL INFORMATION

Acronym INSAT3D-OLR

Parameter Atmosphere, Radiation

28. HUMIDITY AND TEMPERATURE PROFILES, OVER INDIAN REGION (A1) AND INDIAN OCEAN (A2) - INSAT-3D

DESCRIPTION

Sounder Level2 data for A1 and A2 sectors. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DSND_18NOV2018_2100_L2B_SA2.h5
3DSND_19NOV2018_0000_L2B_SA1.h5

Typical file size 75 MB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform	INSAT
Orbit type	GEO
Sensor	INSAT Imager
Sensor Type	Imager
Local Storage Folder	INSAT3D_SND

ADDITIONAL INFORMATION

Parameter Temperature, Atmosphere, Humidity

29. SEA SURFACE TEMPERATURE - INSAT-3D

DESCRIPTION

Sea surface temperature is derived from split thermal window channels (TIR1, TIR2) during daytime and using additional mid IR window channel (MIR) during night time over cloud free oceanic regions. The most important part of the SST retrieval from IR observations is the atmospheric correction, especially over tropics. This correction is determined through a suitable characterization of tropical atmospheres in radiative transfer model to simulate the brightness temperatures of INSAT-3D channels. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0300_L2B_SST.h5

Typical file size 11.5 MB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_SST

ADDITIONAL INFORMATION

Acronym INSAT3D-SST

Parameter Temperature, Atmosphere

30. UPPER TROPOSPHERIC HUMIDITY - INSAT-3D

DESCRIPTION

Upper Tropospheric Humidity from IMAGER. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0300_L2B_UTH.h5

Typical file size 5.5 MB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_UTH

ADDITIONAL INFORMATION

Acronym INSAT3D-UTH

Parameter Temperature, Atmosphere

31. WATER VAPOUR WINDS - INSAT-3D

DESCRIPTION

Water vapour derived wind vectors. [Read more](#)



DATA FORMAT (HDF5)

Typical file names 3DIMG_19NOV2018_0300_L2P_WVV.h5

Typical file size 190 KB

Frequency 9 or 10 files (every 3 h)

TECHNICAL DETAILS

Platform INSAT

Orbit type GEO

Sensor INSAT Imager

Sensor Type Imager

Local Storage Folder INSAT3D_WVV

ADDITIONAL INFORMATION

Acronym INSAT3D-WVV

Parameter Wind, Atmosphere

ABOUT US

The Earth Observation Research & Innovation Centre (EORIC) is a research arm of the University of Energy and Natural Resources (UENR)-Sunyani, responsible for the acquisition of near real time satellite-based data, air-borne and in-situ data, metadata and products, automatic weather monitoring, operations and management of unmanned aerial systems, virtual regional fire monitoring and modelling, organization of training programs in the use of Earth Observation (EO) and Geographic Information Systems (GIS) techniques, collectively towards making informed decisions in the areas of water, disasters, health, energy, climate, agriculture, ecosystems and biodiversity.

Website: <http://eoric.uenr.edu.gh/>

