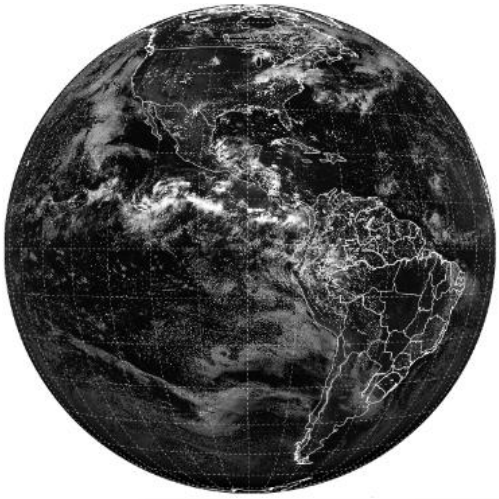
PROVIDER: NOAA-NESDIS

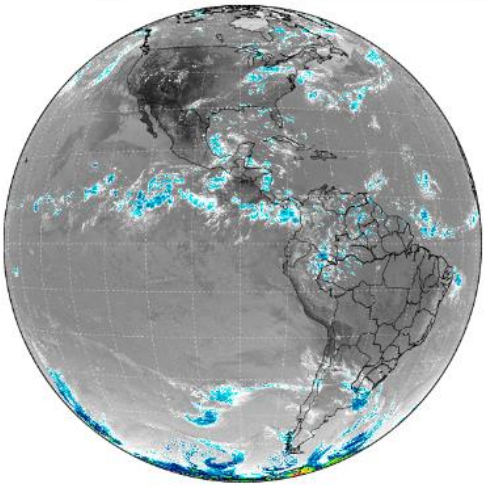
(National Oceanic and Atmospheric Administration – NOAA Satellite and Information Service - USA)

- **GOES-16 Cloud and Moisture Imagery (CMI) - Band 02**



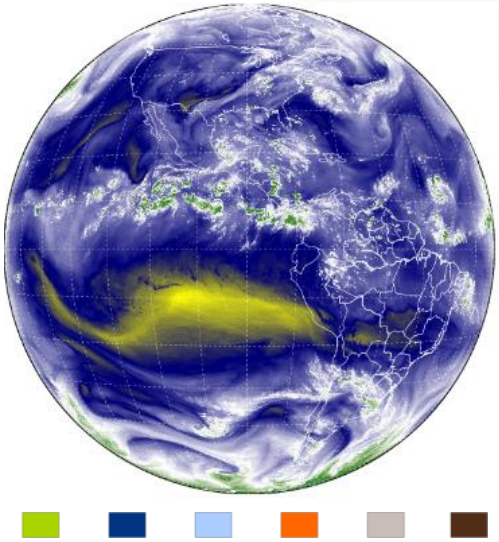
Format: NetCDF4
Average Size: 76 MB
Frequency: 15 minutes
Max n° of files a day: 96
Pixel info: Reflectance (must apply factor and offset)
Satellite: GOES-16
Instrument: ABI
Channel: 02
Band Nickname: "Red"
Wavelength: 0.59 to 0.69 µm, cent. at 0.64 µm
Projection: Geos (Satellite)
Resolution: 1 x 1 km
Naming Convention:
OR_ABI-L2-CMIPF-M3C02_G16_s*_e*_c*.nc

- **GOES-16 Cloud and Moisture Imagery (CMI) - Band 07**



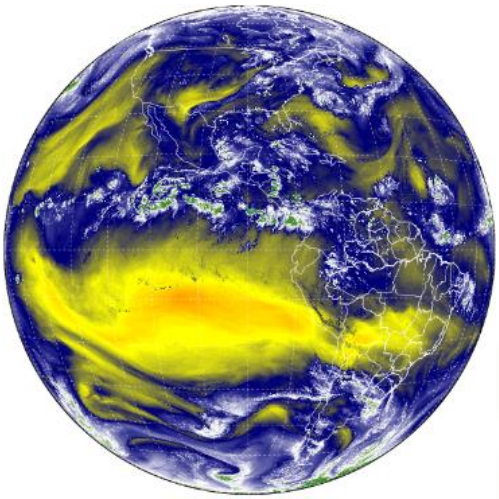
Format: NetCDF4
Average Size: 28 MB
Frequency: 15 minutes
Max n° of files a day: 96
Pixel info: BT (must apply factor and offset)
Satellite: GOES-16
Instrument: ABI
Channel: 07
Band Nickname: "Shortwave Window"
Wavelength: 3.80 to 4.00 µm, cent. at 3.90 µm
Projection: Geos (Satellite)
Resolution: 2 x 2 km
Naming Convention:
OR_ABI-L2-CMIPF-M3C07_G16_s*_e*_c*.nc

- **GOES-16 Cloud and Moisture Imagery (CMI) - Band 08**



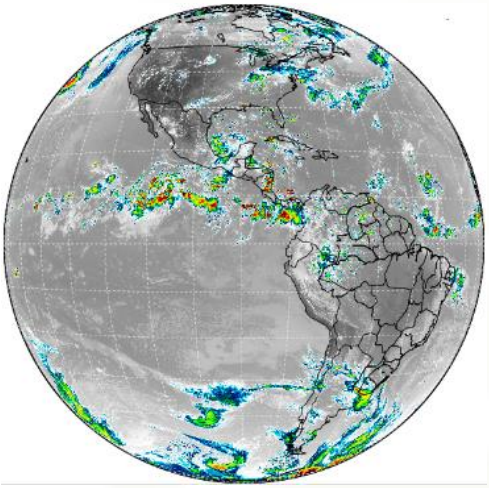
Format: NetCDF4
Average Size: 20 MB
Frequency: 15 minutes
Max n° of files a day: 96
Pixel info: BT (must apply factor and offset)
Satellite: GOES-16
Instrument: ABI
Channel: 08
Band Nickname: "Upper-Level Tropospheric Water Vapor"
Wavelength: 5.77 to 6.6 µm, cent. at 6.19 µm
Projection: Geos (Satellite)
Resolution: 2 x 2 km
Naming Convention:
OR_ABI-L2-CMIPF-M3C08_G16_s*_e*_c*.nc

- **GOES-16 Cloud and Moisture Imagery (CMI) - Band 09**



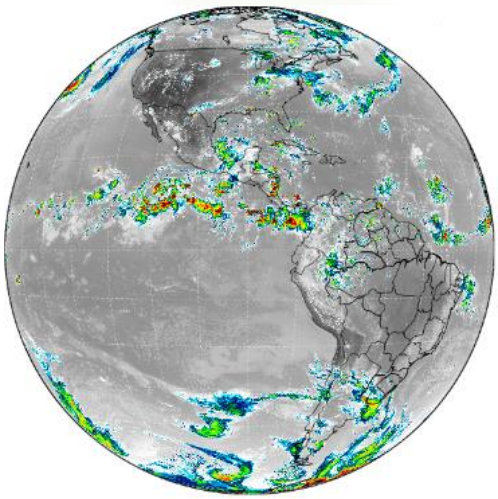
Format: NetCDF4
Average Size: 20 MB
Frequency: 15 minutes
Max n° of files a day: 96
Pixel info: Reflectance (must apply factor and offset)
Satellite: GOES-16
Instrument: ABI
Channel: 09
Band Nickname: "Mid-Level Tropospheric Water Vapor"
Wavelength: 6.75 to 7.15 µm, cent. at 6.95 µm
Projection: Geos (Satellite)
Resolution: 2 x 2 km
Naming Convention:
OR_ABI-L2-CMIPF-M3C09_G16_s*_e*_c*.nc

- **GOES-16 Cloud and Moisture Imagery (CMI) - Band 13**



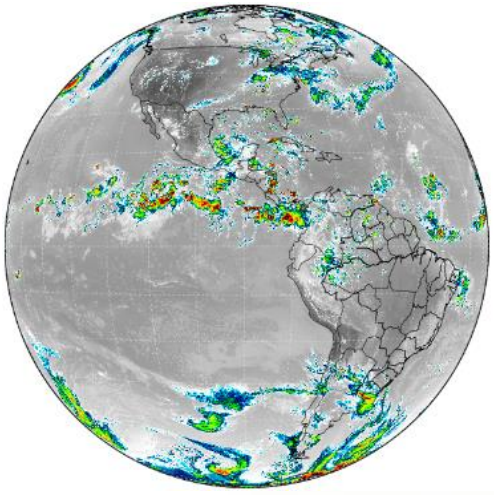
Format: NetCDF4
Average Size: 30 MB
Frequency: 15 minutes
Max n° of files a day: 96
Pixel info: BT (must apply factor and offset)
Satellite: GOES-16
Instrument: ABI
Channel: 13
Band Nickname: "'Clean' IR Longwave Window"
Wavelength: 10.10 to 10.60 µm, cent. at 10.35 µm
Projection: Geos (Satellite)
Resolution: 2 x 2 km
Naming Convention:
OR_ABI-L2-CMIPF-M3C13_G16_s*_e*_c*.nc

- **GOES-16 Cloud and Moisture Imagery (CMI) - Band 14**



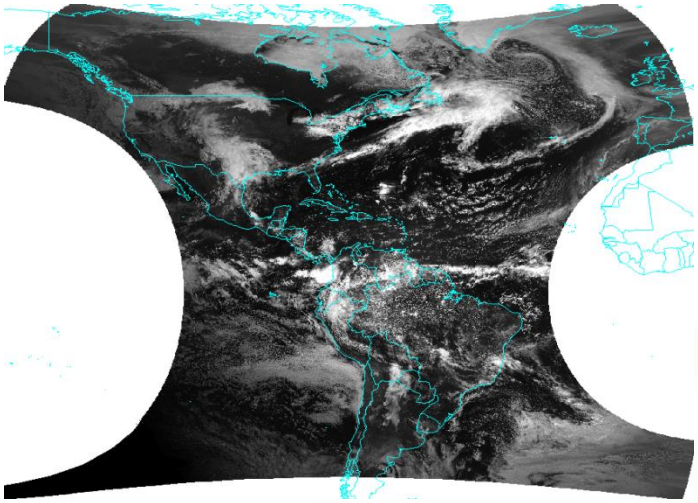
Format: NetCDF4
Average Size: 28 MB
Frequency: 15 minutes
Max n° of files a day: 96
Pixel info: BT (must apply factor and offset)
Satellite: GOES-16
Instrument: ABI
Channel: 14
Band Nickname: "IR Longwave Window"
Wavelength: 10.80 to 11.6 µm, cent. at 11.20 µm
Projection: Geos (Satellite)
Resolution: 2 x 2 km
Naming Convention:
OR_ABI-L2-CMIPF-M3C14_G16_s*_e*_c*.nc

- **GOES-16 Cloud and Moisture Imagery (CMI) - Band 15**



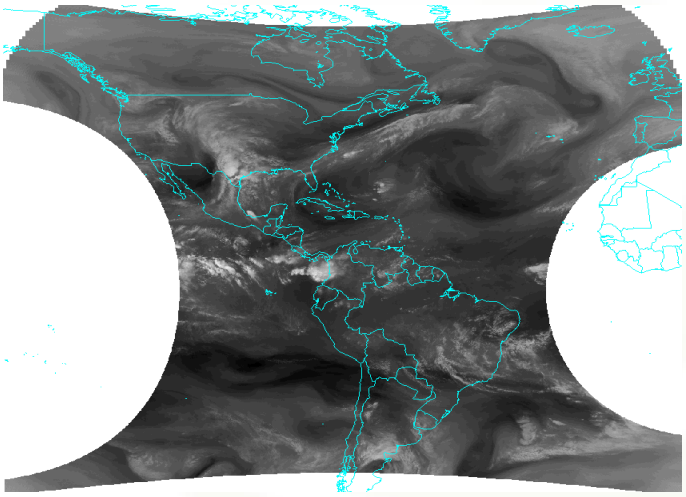
Format: NetCDF4
Average Size: 30 MB
Frequency: 15 minutes
Max n° of files a day: 96
Pixel info: BT (must apply factor and offset)
Satellite: GOES-16
Instrument: ABI
Channel: 15
Band Nickname: "'Dirty' Longwave Window"
Wavelength: 11.80 to 12.8 µm, cent. at 12.30 µm
Projection: Geos (Satellite)
Resolution: 2 x 2 km
Naming Convention:
OR_ABI-L2-CMIPF-M3C15_G16_s*_e*_c*.nc

- **GOES-13 – Northern Hemisphere Extended / Southern Hemisphere – Visible Channel**



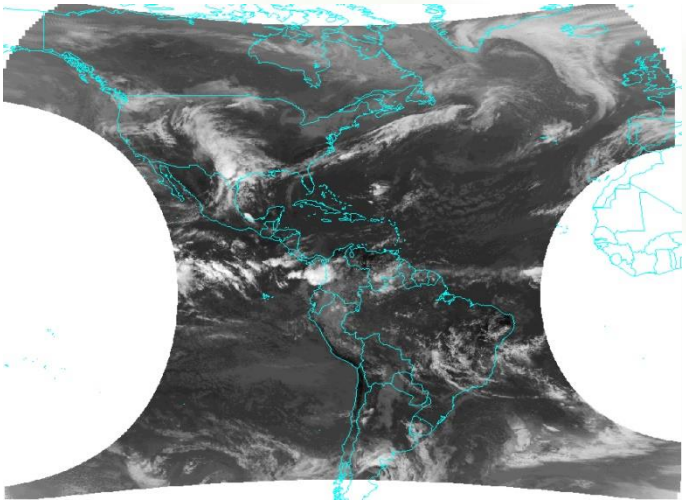
Format: GeoTIFF
Average Sizes: 93.40 MB (Northern) / 37.90 MB (South)
Frequency: 30 minutes
Max n° of files a day: 48 per sector
GeoTIFF pixel info: Albedo x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 µm, cent. at 0.63 µm
Projection: Rectangular
Resolution: 1 x 1 km
Naming Conventions:
GoesEastNH01VjjjHHMM / GoesEastSH01VjjjHHMM

- **GOES-13 – Northern Hemisphere Extended / Southern Hemisphere – Water Vapor Channel**



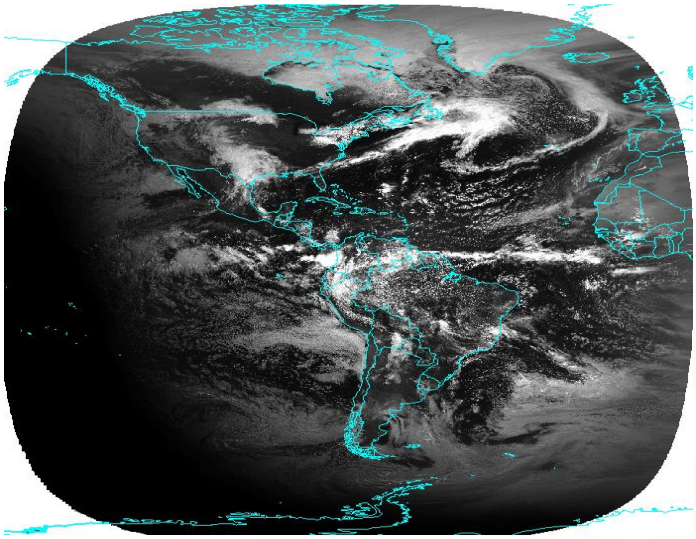
Format: GeoTIFF
Average Sizes: 3.20 MB (Northern) / 1.10 MB (South)
Frequency: 30 minutes
Max n° of files a day: 48 per sector
GeoTIFF pixel info: Brightness Temp. x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 3
Wavelength: 5.77 to 7.33 µm, cent. at 6.50 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Conventions:
GoesEastNH04I3jjjHHMM / GoesEastSH04I3jjjHHMM

- **GOES-13 – Northern Hemisphere Extended / Southern Hemisphere – Infrared Channel**



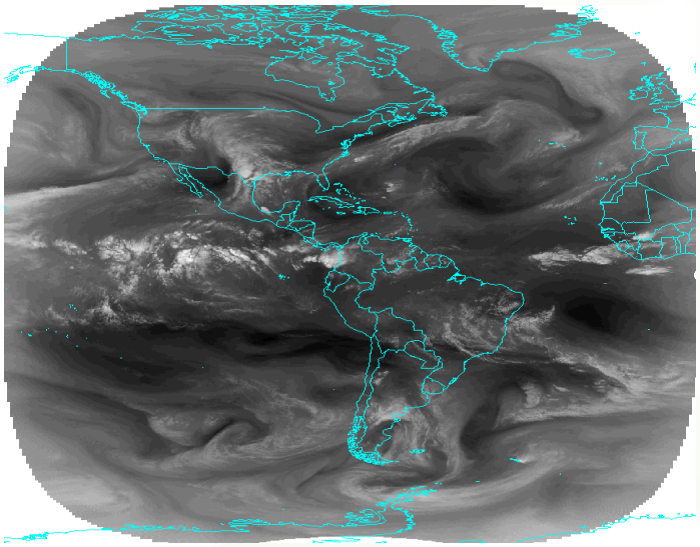
Format: GeoTIFF
Average Sizes: 5.70 MB (Northern) / 2.00 MB (South)
Frequency: 30 minutes
Max n° of files a day: 48 per sector
GeoTIFF pixel info: Brightness Temp. [K] x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Conventions:
GoesEastNH04I4jjjHHMM / GoesEastSH04I4jjjHHMM

- **GOES-13 – Full-Disk – Visible Channel**



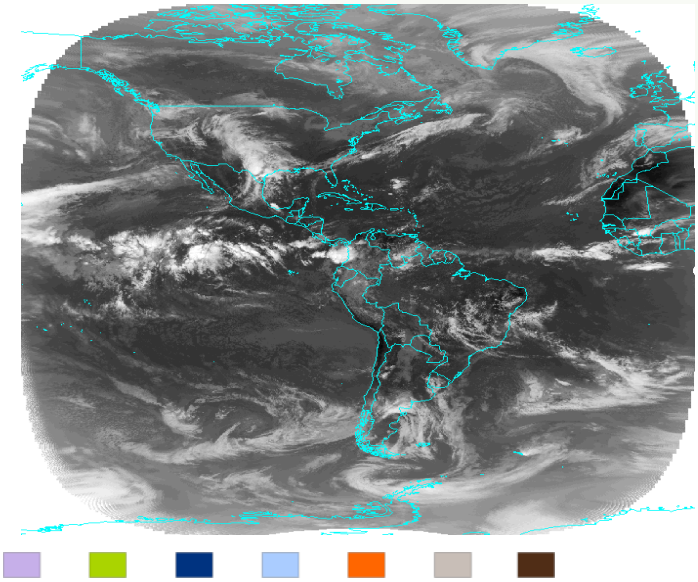
Format: GeoTIFF
Average Size: 103 MB
Frequency: 3 hours
Max n° of files a day: 5 (daylight only)
GeoTIFF pixel info: Albedo x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 µm, cent. at 0.63 µm
Projection: Rectangular
Resolution: 1 x 1 km
Naming Convention:
GoesEastFD01VjjjHHMM

- **GOES-13 – Full-Disk – Water Vapor Channel**



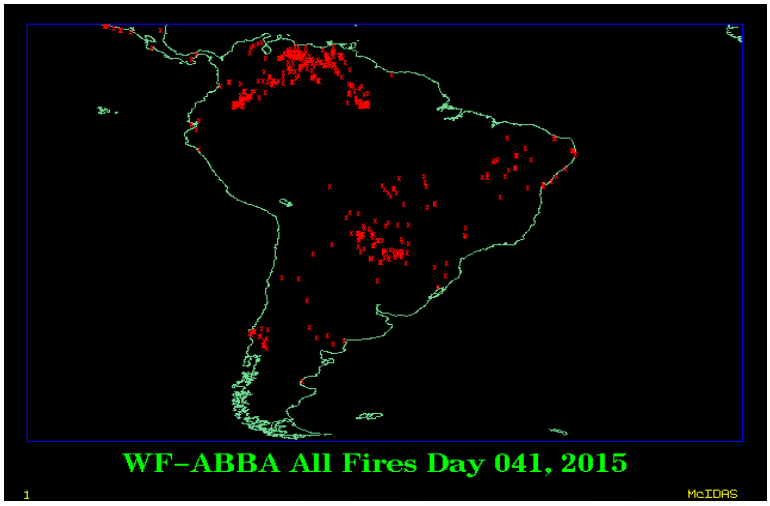
Format: GeoTIFF
Average Size: 48 MB
Frequency: 3 hours
Max n° of files a day: 8
GeoTIFF pixel info: Brightness Temp. x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 3
Wavelength: 5.77 to 7.33 µm, cent. at 6.50 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
GoesEastFD4I3jjjHHMM

- **GOES-13 – Full-Disk – Infrared Channel**



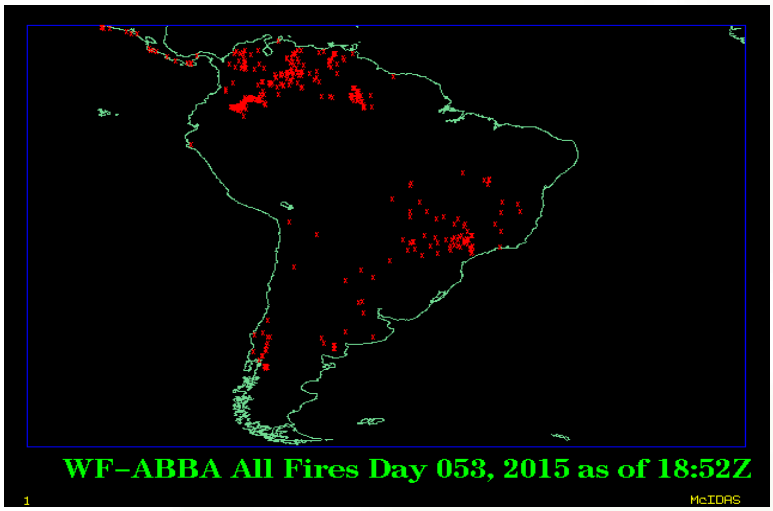
Format: GeoTIFF
Average Size: 89 MB
Frequency: 3 hours
Max n° of files a day: 8
GeoTIFF pixel info: Brightness Temp. x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
GoesEastFD4I4jjjHHMM

- **Automated Biomass Burning Algorithm - ABBA - Accumulated Daily - South America**



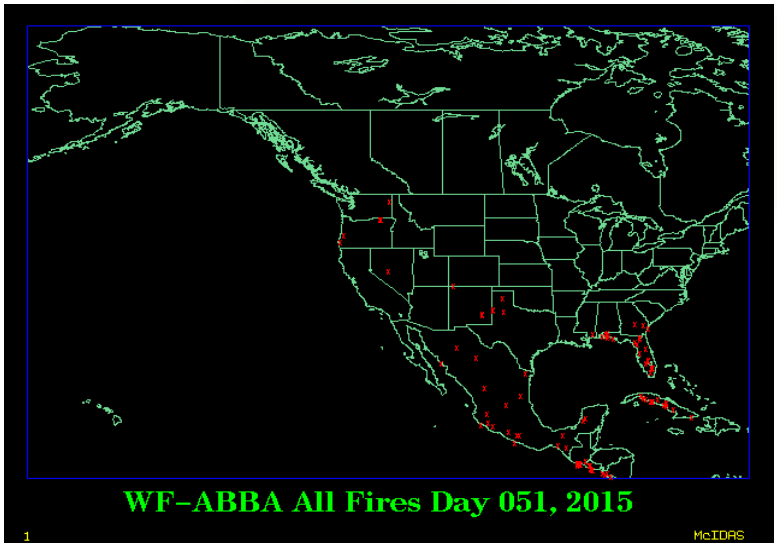
Format: GIF
Average Size: 9 kB
Frequency: 1 per day
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1, 2 and 4
Wavelengths: 0.63, 3.90 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
abba24shr

- **Automated Biomass Burning Algorithm - ABBA - Current - South America**



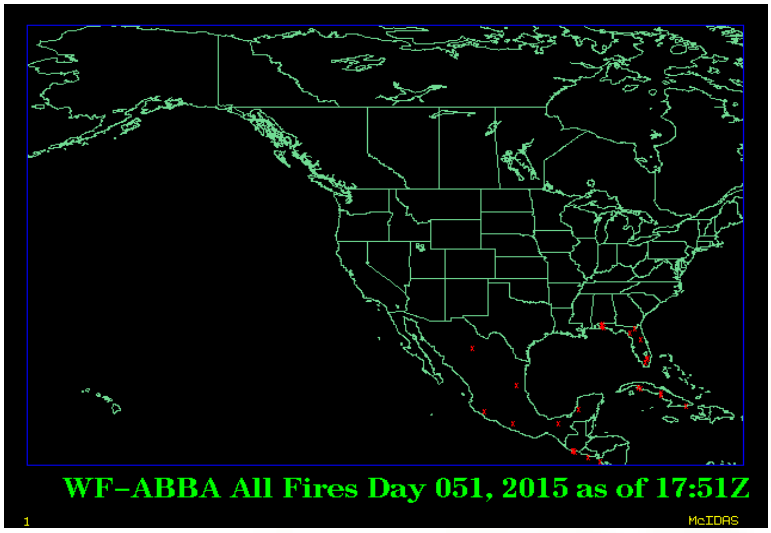
Format: GIF
Average Size: 8 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1, 2 and 4
Wavelengths: 0.63, 3.90 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
abbacurrents

- **Automated Biomass Burning Algorithm - ABBA - Accumulated Daily - North America**



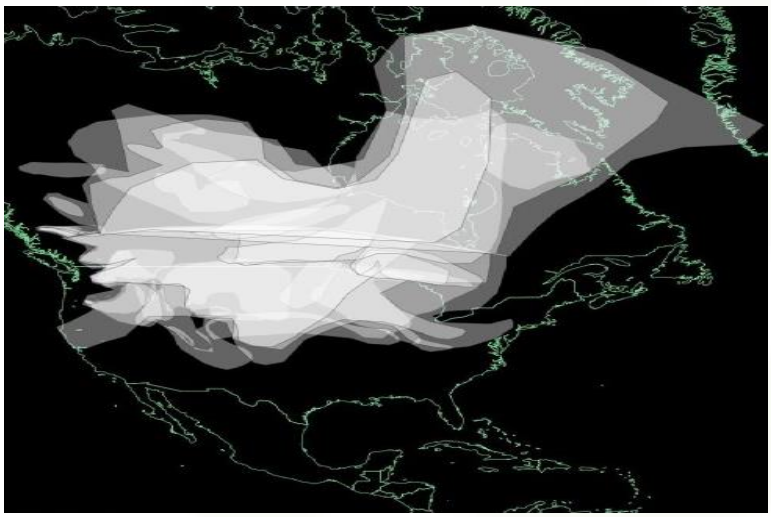
Formats: GIF and CSV
Average Size: 9 kB
Frequency: 1 per day
Satellite: GOES-13 and GOES-15
Instrument: GOES Imager
Channel: 1, 2 and 4
Wavelengths: 0.63, 3.90 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Conventions:
abbaYYYYjjj
abbaYYYYjjjHHMM.g13
abbaYYYYjjjHHMM.g15

- **Automated Biomass Burning Algorithm - ABBA - Current - North America**



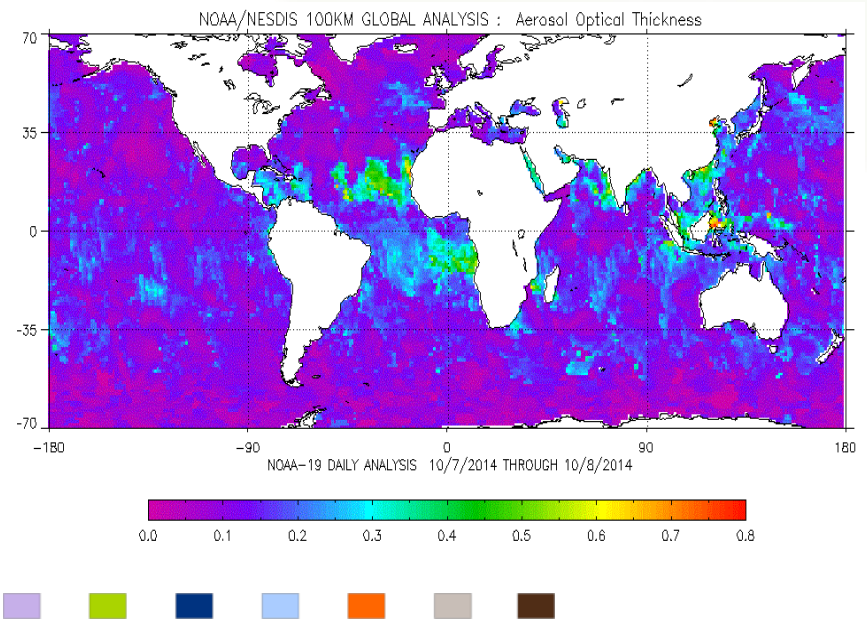
Format: GIF
Average Size: 12 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1, 2 and 4
Wavelengths: 0.63, 3.90 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
abbacurrent

- **Hazard Mapping System - HMS - Smoke Product - North America**



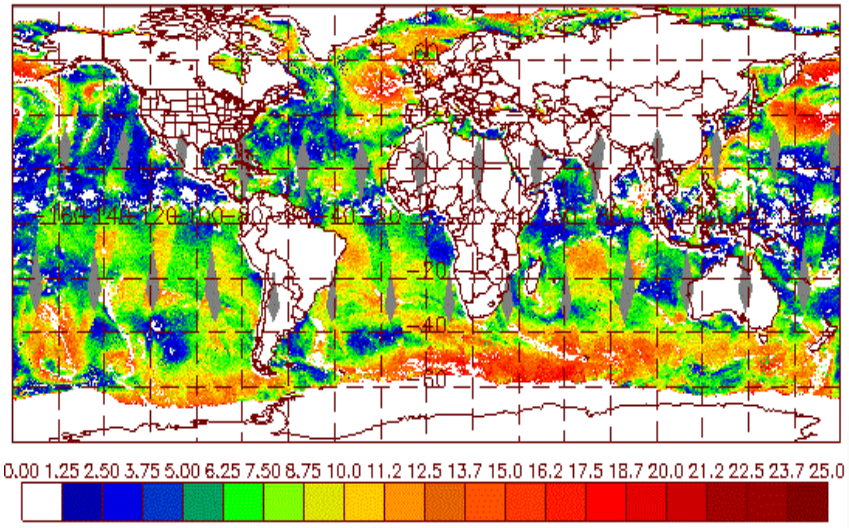
Format: Shapefile (SHP + SHX + DBF)
Preliminary Shape and Final Shape
Average Size: 4 kB
Frequency: 72 minutes
Max n° of files a day: 20
Satellite: GOES / NOAA / AQUA / TERRA
Instrument: GOES Imager / AVHRR / MODIS
Wavelengths: 0.63, 3.90 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
hms_smokeYYYYMMDD

- **NOAA-19 - Aerosol Optical Thickness Daily Analyzed Field - Global**



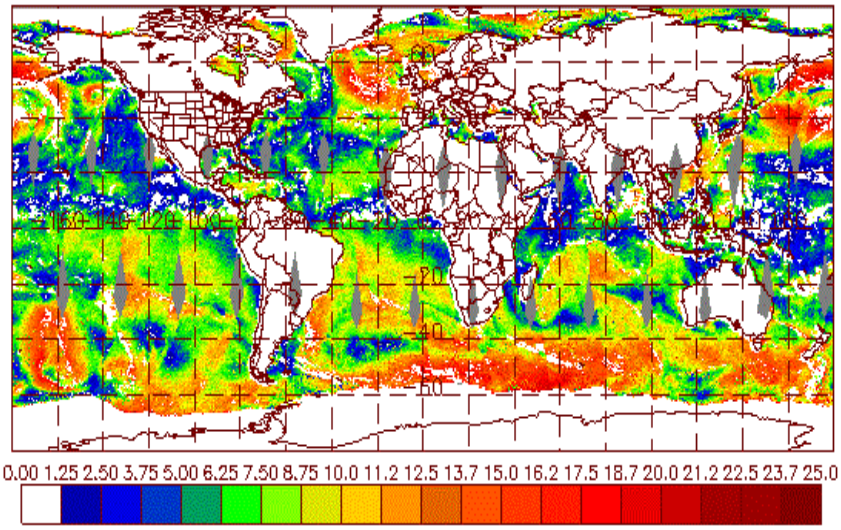
Format: Binary
Average Size: 1.4 MB
Frequency: 1 per day
Satellite: NOAA-19
Instrument: AVHRR
Naming Conventions:
aer.field.100km_global.n19.daily

- **DMSP - F16 SSM/IS EDR - Ocean Surface Wind Speed - Global**



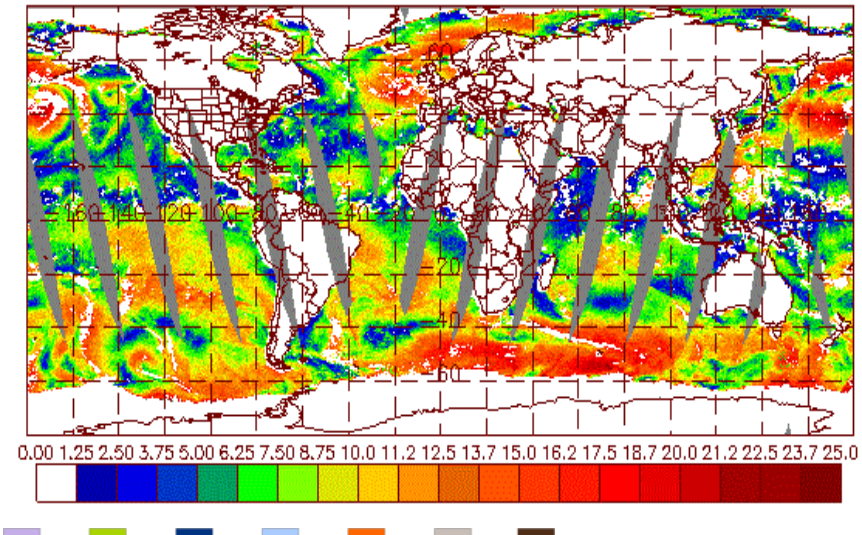
Format: BUFR
Average Size: 1.8 MB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: DMSP (F16)
Instrument: SSM/IS
Naming Convention:
NPR.EDEB.SA.D14274.S0001.E0145.
B5650910.NS

- **DMSP - F17 SSM/IS EDR - Ocean Surface Wind Speed - Global**



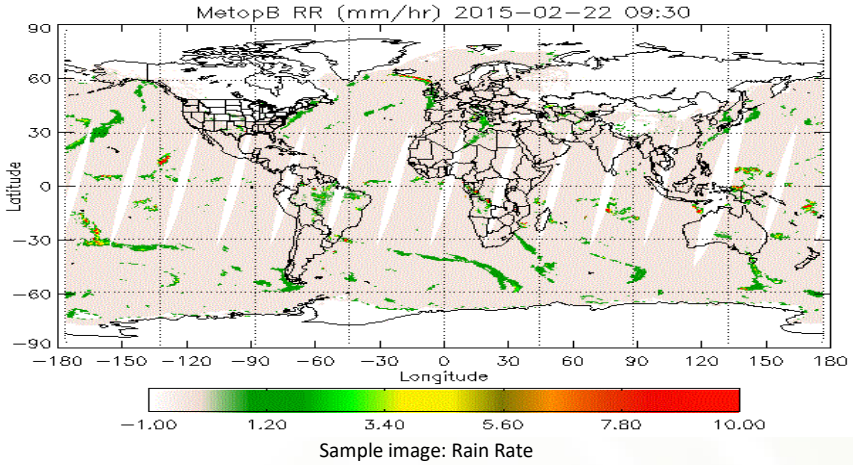
Format: BUFR
Average Size: 740 kB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: DMSP (F17)
Instrument: SSM/IS
Naming Convention:
NPR.EDEB.SB.D14198.S1437.E1457.
B3972223.MM

- **DMSP - F18 SSM/IS EDR - Ocean Surface Wind Speed - Global**



Format: BUFR
Average Size: 1.8 MB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: DMSP (F18)
Instrument: SSM/IS
Naming Convention:
NPR.EDEB.SC.D14198.S1355.E1539.
B2446869.NS

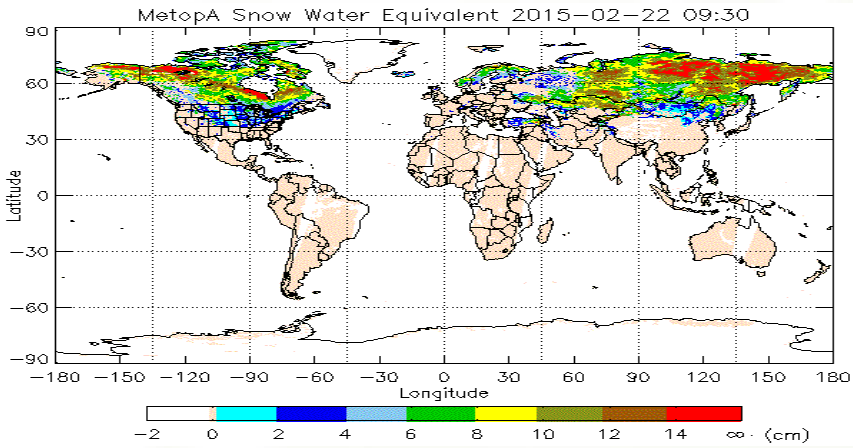
- **Metop-B - MSPPS MHS - Orbital Products – Global** *(Rain Rate, Ice Water Path, Snow Water Equivalent and Snow Fall Rate)*



Sample image: Rain Rate

Format: HDF-EOS
Average Size: 2.0 MB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: Metop-B
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention:
NPR.MHOP.M1.D14203.S1308.E1403.B0955960.NS

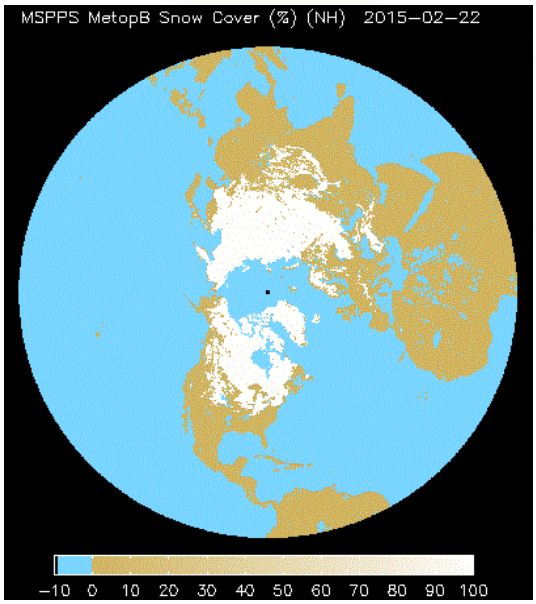
- **Metop-A - MSPPS MHS - Orbital Products – Global** *(Rain Rate, Ice Water Path, Snow Water Equivalent and Snow Fall Rate)*



Sample image: Snow Water Equivalent

Format: HDF-EOS
Average Size: 740 kB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: Metop-A
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention:
NPR.MHOP.M2.D14274.S0839.E1022.B4125253.NS

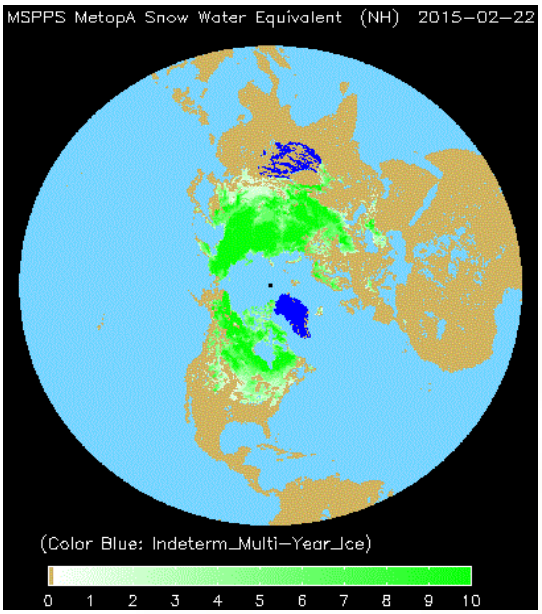
Metop-B - MSPPS MHS - Orbital Products - Polar Stereographic – Northern and Southern Hemisphere *(Snow Cover and Snow Water Equivalent)*



Sample image: Snow Cover

Format: HDF-EOS
Average Size: 9.2 MB
Frequency: Daily
Satellite: Metop-B
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention:
NPR.MHMP.M1.D14203

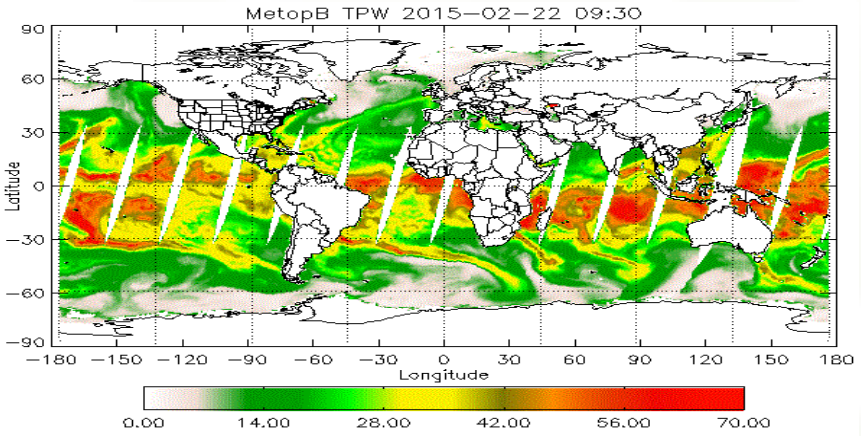
- **Metop-A - MSPPS MHS - Orbital Products - Polar Stereographic – Northern and Southern Hemisphere** *(Snow Cover and Snow Water Equivalent)*



Sample image: Snow Water Equivalent

Format: HDF-EOS
Average Size: 9.2 MB
Frequency: Daily
Satellite: Metop-A
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention:
NPR.MHMP.M2.D14203

- **Metop-B - MSPPS AMSU-A Daily Products – Global** *(Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)*



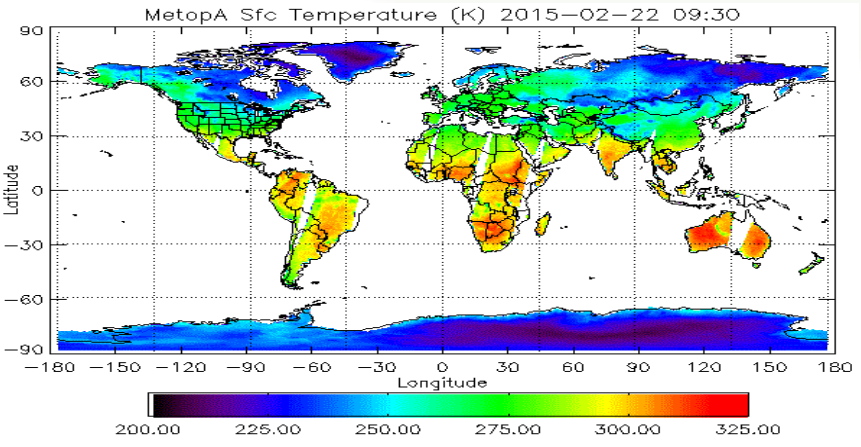
Sample image: Total Precipitable Water

Format: HDF-EOS
Average Size: 10.8 MB
Frequency: Daily
Satellite: Metop-B
Instrument: AMSU-A
Resolution: 45 km at nadir
Naming Convention:
PRD.AADM.M1.D14203

Surface Temperature Pixel Info:
Kelvin * 100

Total Precipitable Water Pixel Info:
mm * 10

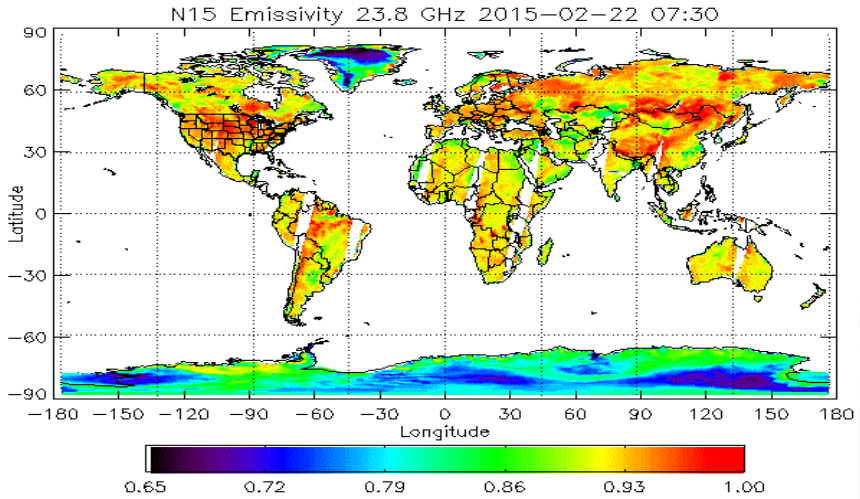
- **Metop-A - MSPPS AMSU-A Daily Products – Global** *(Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)*



Sample image: Surface Temperature

Format: HDF-EOS
Average Size: 10.8 MB
Frequency: Daily
Satellite: Metop-A
Instrument: AMSU-A
Resolution: 45 km at nadir
Naming Convention:
PRD.AADM.M2.D14203

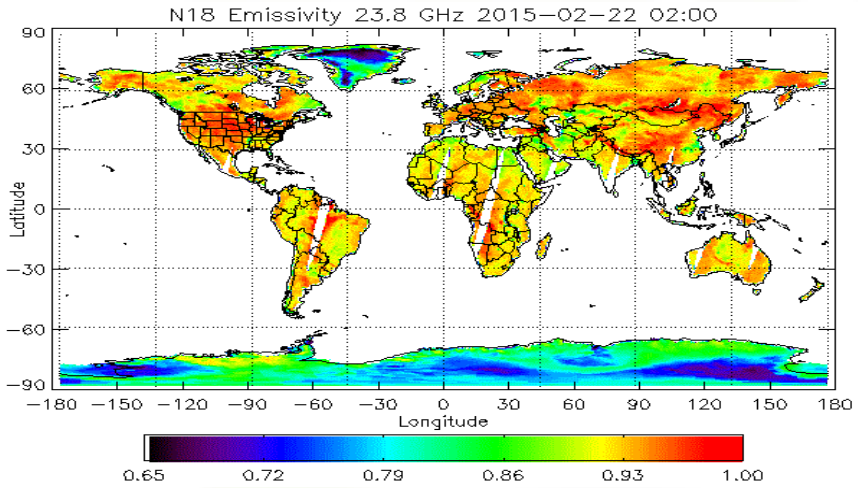
- **NOAA-15 - MSPPS AMSU-A Daily Products – Global** *(Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)*



Sample image: 23.8 GHz Emissivity

Format: HDF-EOS
Average Size: 10.9 MB
Frequency: Daily
Satellite: NOAA-15
Instrument: AMSU-A
Resolution: 45 km at nadir
Naming Convention: PRD.AADM.NK.D14203

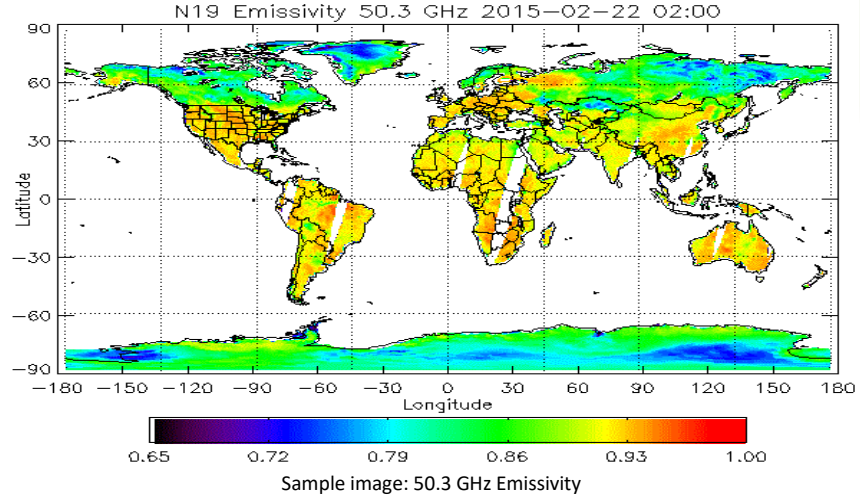
- **NOAA-18 - MSPPS AMSU-A Daily Products – Global** *(Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)*



Sample image: 23.8 GHz Emissivity

Format: HDF-EOS
Average Size: 11.9 MB
Frequency: Daily
Satellite: NOAA-18
Instrument: AMSU-A
Resolution: 45 km at nadir
Naming Convention: PRD.AADM.NN.D14203

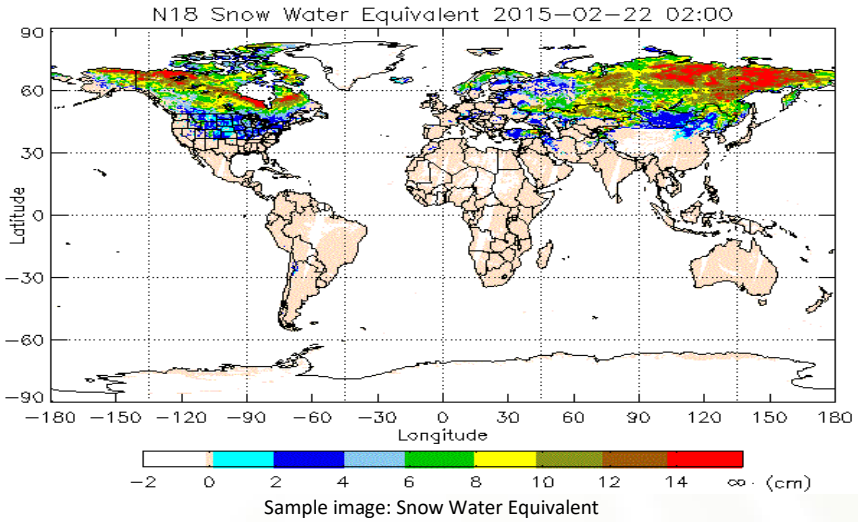
- **NOAA-19 - MSPPS AMSU-A Daily Products – Global** *(Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)*



Sample image: 50.3 GHz Emissivity

Format: HDF-EOS
Average Size: 11.9 MB
Frequency: Daily
Satellite: NOAA-19
Instrument: AMSU-A
Resolution: 45 km at nadir
Naming Convention: PRD.AADM.NP.D14203

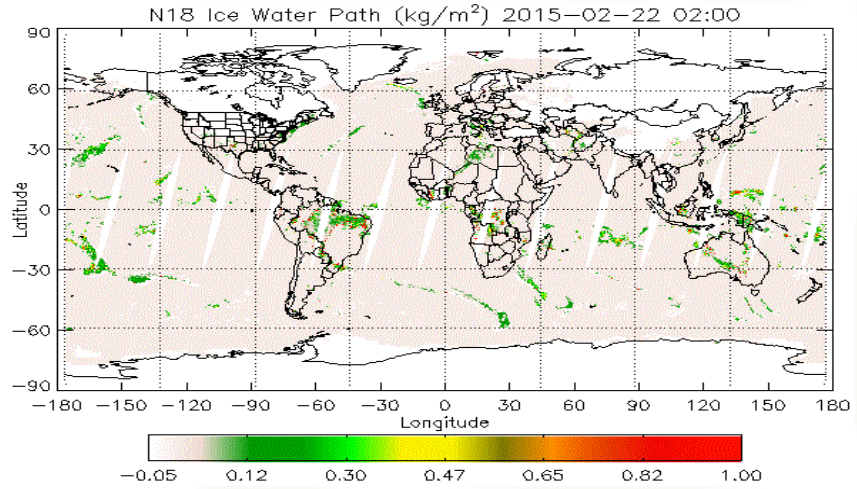
- **NOAA-18 - MSPPS MHS - Orbital Products – Global** *(Rain Rate, Ice Water Path, Snow Water Equivalent and Snow Fall Rate)*



Sample image: Snow Water Equivalent

Format: HDF-EOS
Average Size: 2.0 MB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: NOAA-18
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention: NPR.MHOP.NN.D14203.S0929.E1124.B4725657

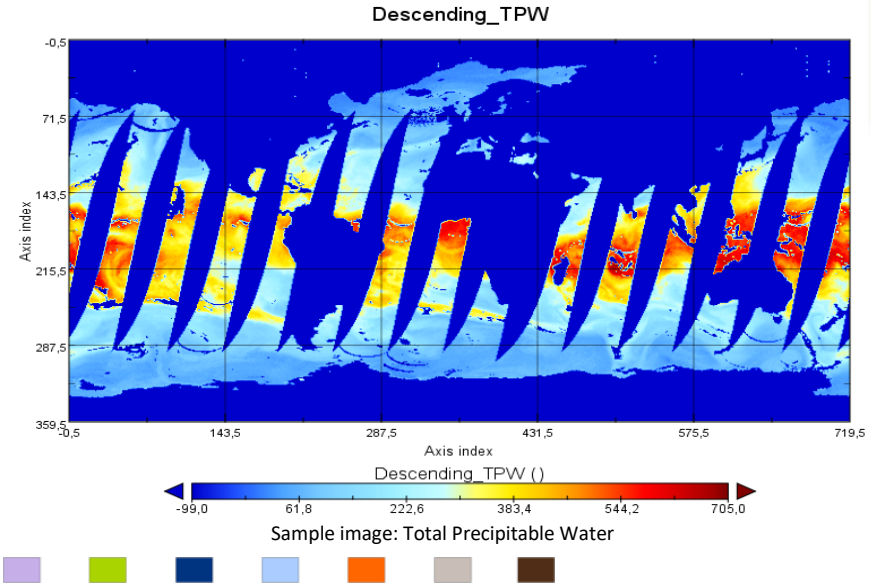
- **NOAA-19 - MSPPS MHS - Orbital Products – Global** *(Rain Rate, Ice Water Path, Snow Water Equivalent and Snow Fall Rate)*



Sample image: Ice Water Path

Format: HDF-EOS
Average Size: 740 kB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: NOAA-19
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention: NPR.MHOP.NP.D14203.S1157.E1343.B2809596.NS

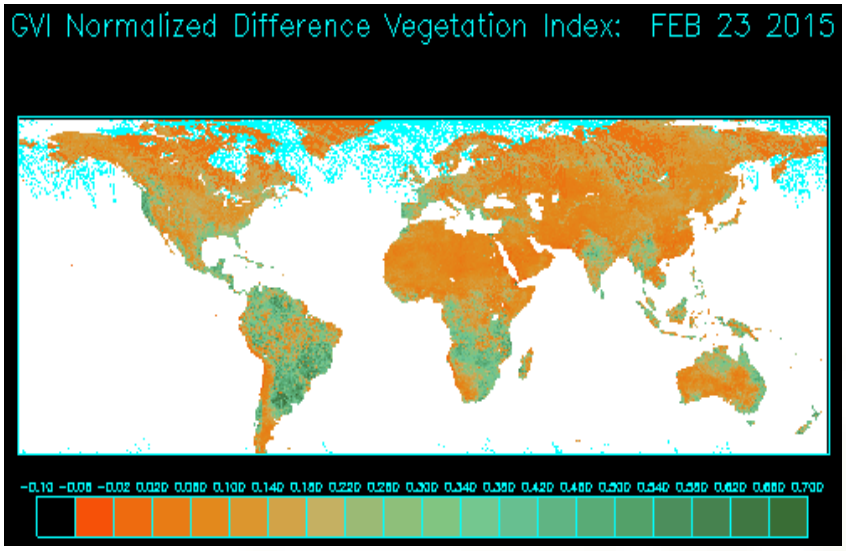
- **DMSP F15 SSM/I Daily Products - Global** *(Total Precipitable Water, Cloud Liquid Water, Cloud Type, Snow Depth, Sea Ice)*



Sample image: Total Precipitable Water

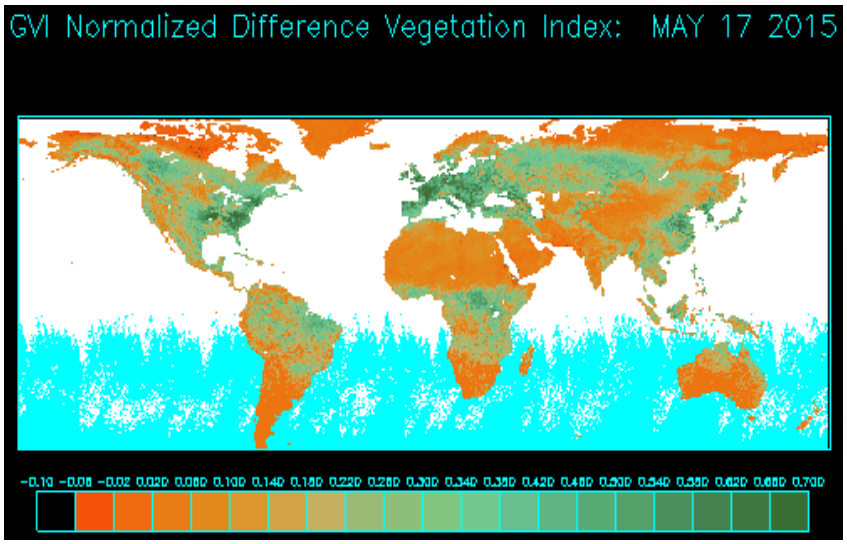
Format: HDF-EOS
Average Size: 7.7 MB
Frequency: Daily
Satellite: DMSP (F15)
Instrument: SSM/I
Naming Convention: PRD.SSMIDM.S9.D14203

- **NOAA-18 weekly NDVI in Platee Carree Projection - Global**



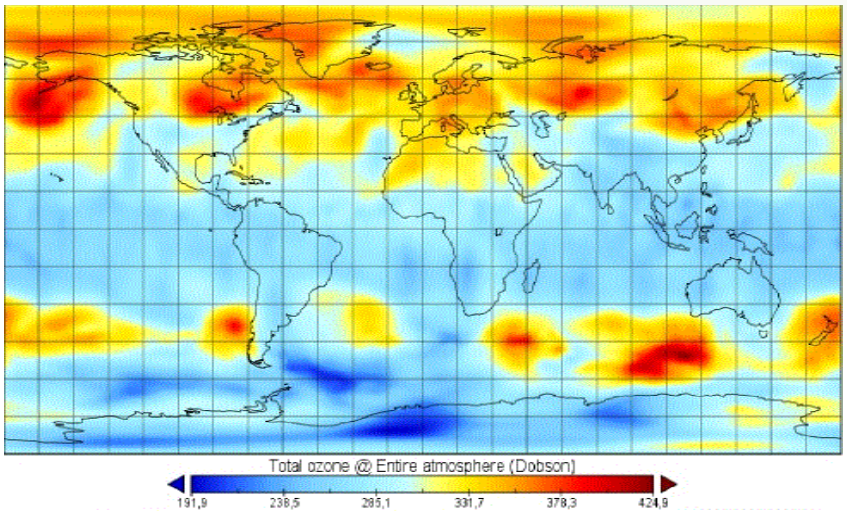
Format: BINARY
Average Size: 2.15 MB
Frequency: Daily
Satellite: NOAA-18
Instrument: AVHRR
Resolution: 1 km
Naming Convention:
NPR.VACC.NN.D14209.PCWN

- **NOAA-19 weekly NDVI in Platee Carree Projection - Global**



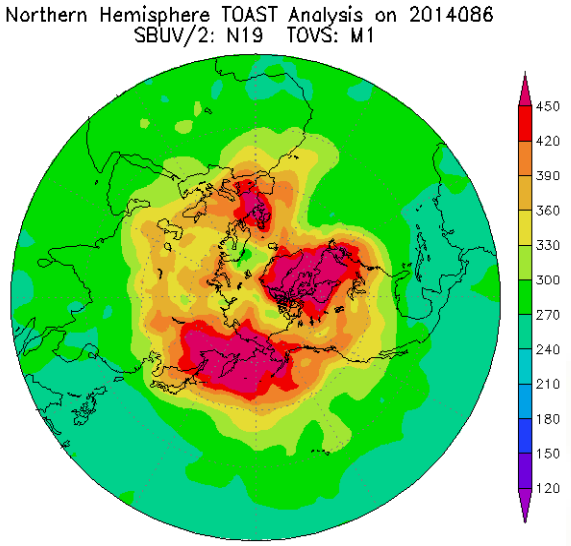
Format: BINARY
Average Size: 2.15 MB
Frequency: Daily
Satellite: NOAA-19
Instrument: AVHRR
Resolution: 1 km
Naming Convention:
NPR.VACC.NP.D14209.PCWN

- **Total Ozone Analysis using SBUV-2 and TOVS - TOAST - Global**



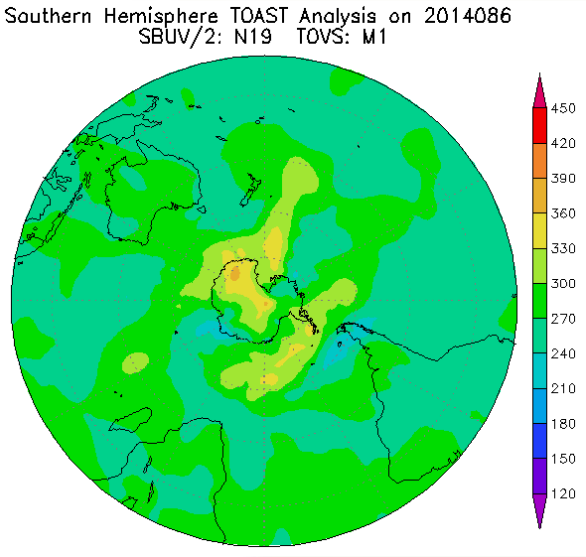
Formats: Binary / GRIB / PNG
Average Sizes: 254 kB (Binary), 96 kB (GRIB), 23 kB (PNG)
Frequency: Daily
Data Input: Ozone Retrievals from SBUV/2 (24 to 54 km) and TOVS (4 to 23 km)
GRIB pixel info: Ozone (Dobson)
Resolution: 1 degree
Naming Conventions:
toast_YYYYMMDD.bin
TOAST_YYMMDD.GRB
toast_YYYYMMDD.png

- **Total Ozone Analysis using SBUV-2 and TOVS - TOAST - Northern Hemisphere**



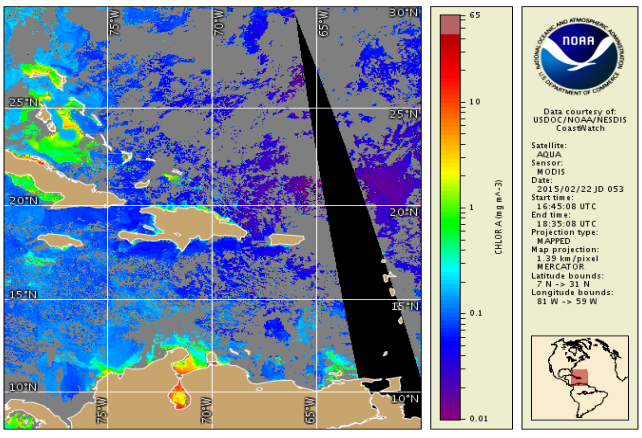
Format: PNG
Average Size: 19 kB
Frequency: Daily
Data Input: Ozone Retrievals from SBUV/2 (24 to 54 km) and TOVS (4 to 23 km)
Resolution: 1 degree
Naming Convention:
toast_nh

- **Total Ozone Analysis using SBUV-2 and TOVS - TOAST - Southern Hemisphere**



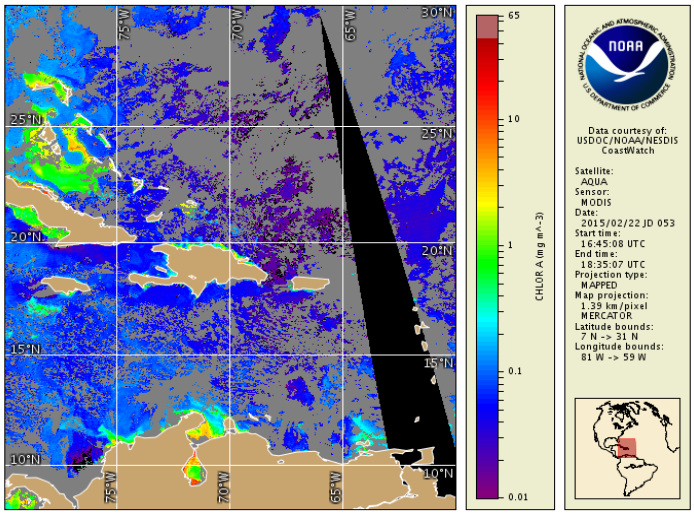
Format: PNG
Average Size: 19 kB
Frequency: Daily
Data Input: Ozone Retrievals from SBUV/2 (24 to 54 km) and TOVS (4 to 23 km)
Resolution: 1 degree
Naming Convention:
toast_sh

- **Sea Surface Chlorophyll - NOAA SWIR - Caribbean**



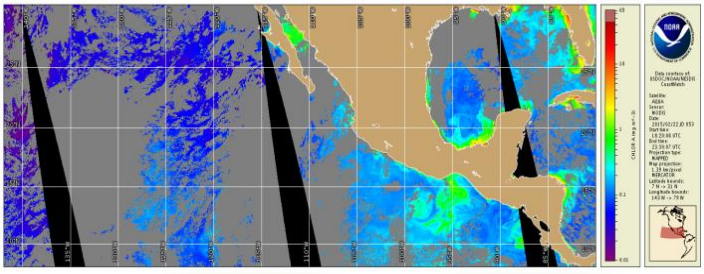
Formats: GeoTIFF and PNG
Average Sizes: 2.9 MB (GeoTIFF), 115 kB (PNG)
Frequency: Daily
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODWCW_P2014273_C5_1740_1745_1915-1925_CB05_closest_chlora
MODWCW_P2014198_C3_1755-1805_CB05_closest_chlora

- **Sea Surface Chlorophyll - SEADAS - Caribbean**



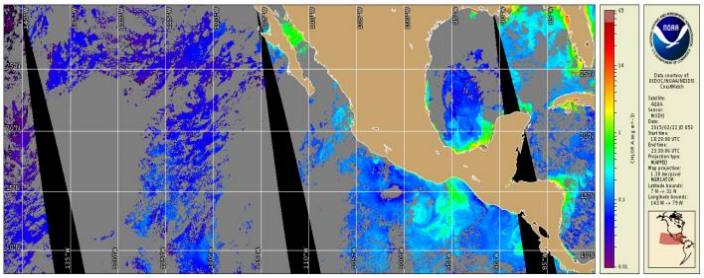
Formats: GeoTIFF and PNG
Average Sizes: 2.9 MB (GeoTIFF), 115 kB (PNG)
Frequency: Daily
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODSCW_P2014185_C1_1655_CB05_closest_chlora
MODSCW_P2014185_C1_1655_CB05_closest_chlora

- **Sea Surface Chlorophyll - NOAA SWIR – North America (Eastern Tropical Pacific)**



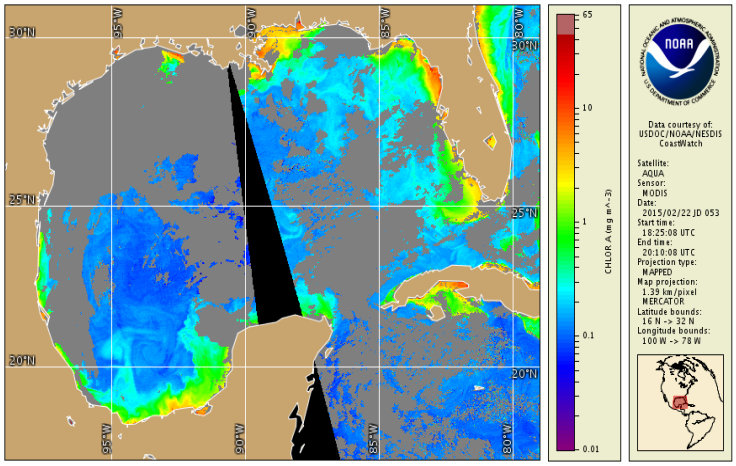
Formats: GeoTIFF and PNG
Average Sizes: 8.85 MB (GeoTIFF), 215 kB (PNG)
Frequency: Daily
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODWCW_P2014198_C9_1800_1805_1935-1945_2115_2120_2255_2300_EP05_closest_chlora
MODWCW_P2014198_C9_1800_1805_1935-1945_2115_2120_2255_2300_EP05_closest_chlora

- **Sea Surface Chlorophyll - SEADAS – North America (Eastern Tropical Pacific)**



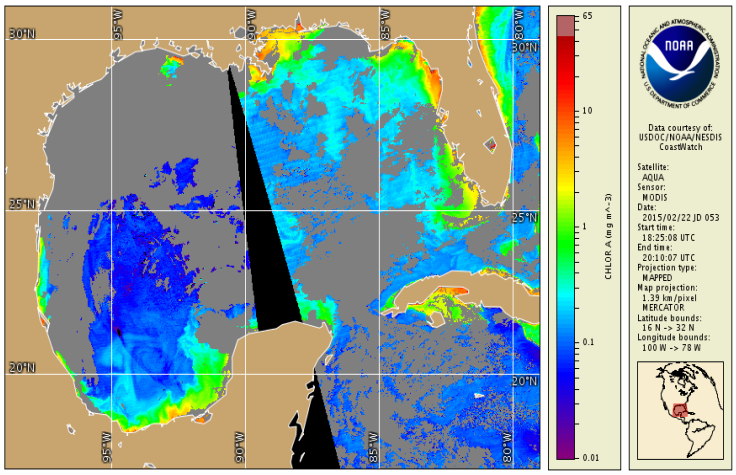
Formats: GeoTIFF and PNG
Average Sizes: 8.85 MB (GeoTIFF), 225 kB (PNG)
Frequency: Daily
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODSCW_P2014198_C9_1800_1805_1935-1945_2115_2120_2255_2300_EP05_closest_chlora
MODSCW_P2014198_C9_1800_1805_1935-1945_2115_2120_2255_2300_EP05_closest_chlora

- **Sea Surface Chlorophyll - NOAA SWIR - North America (Gulf of Mexico)**



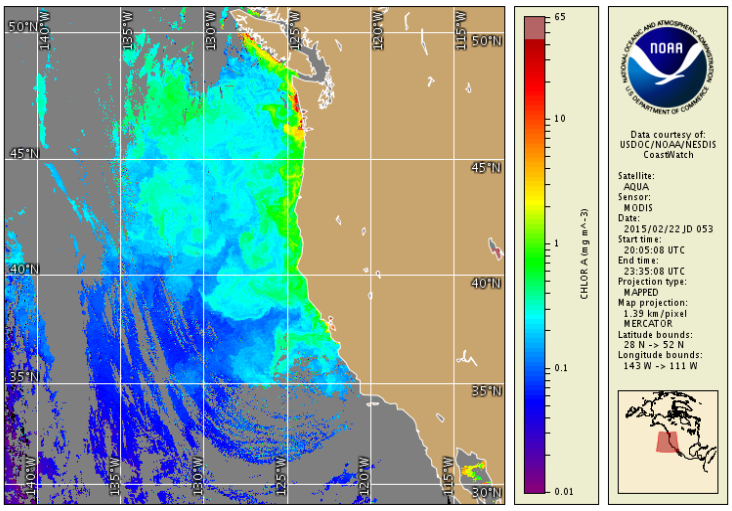
Formats: GeoTIFF and PNG
Average Sizes: 1.87 MB (GeoTIFF), 133 kB (PNG)
Frequency: Daily
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODWCW_P2014198_C3_1800_1805_1940_GM05_closest_chlora
MODWCW_P2014198_C3_1800_1805_1940_GM05_closest_chlora

- **Sea Surface Chlorophyll - SEADAS - North America (Gulf of Mexico)**



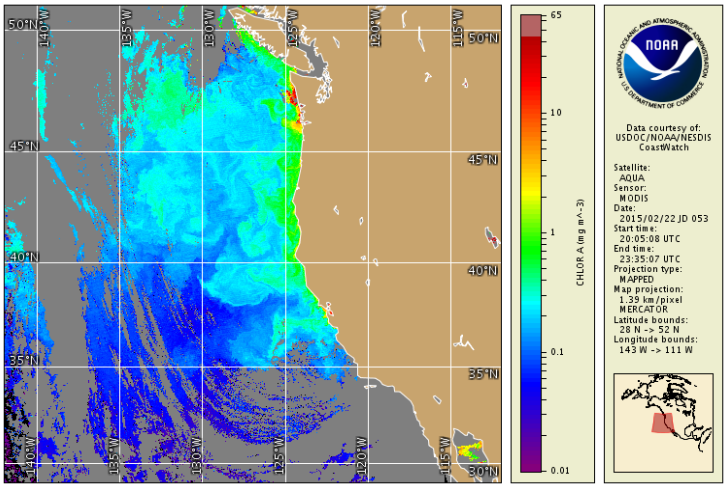
Formats: GeoTIFF and PNG
Average Sizes: 1.87 MB (GeoTIFF), 137 kB (PNG)
Frequency: Daily
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODSCW_P2014198_C3_1800_1805_1940_GM05_closest_chlora
MODSCW_P2014198_C3_1800_1805_1940_GM05_closest_chlora

- **Sea Surface Chlorophyll - NOAA SWIR - North America (West Coast [US])**



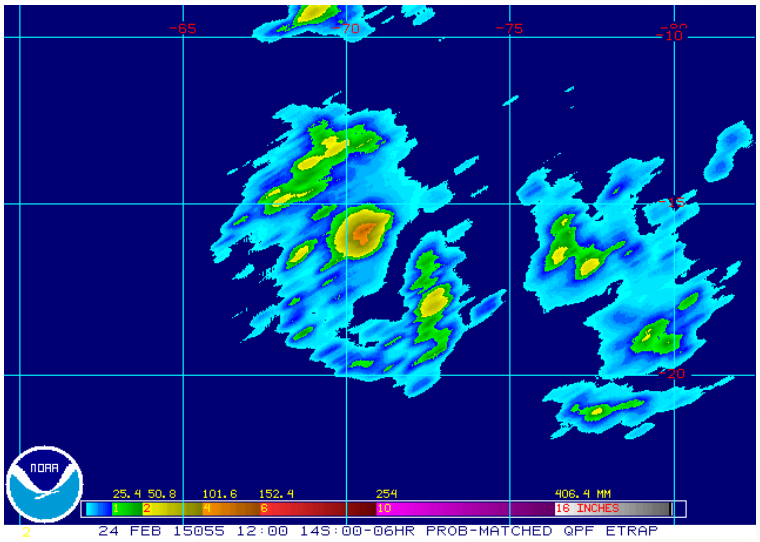
Formats: GeoTIFF and PNG
Average Sizes: 5.34 MB (GeoTIFF), 108 kB (PNG)
Frequency: 480 minutes
Max n° of files a day: 3 per format
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODWCW_P2014198_C5_1945_1950_2120_2125_2300_WC05_closest_chlora
MODWCW_P2014198_C5_1945_1950_2120_2125_2300_WC05_closest_chlora

- **Sea Surface Chlorophyll - SEADAS - North America (West Coast [US])**



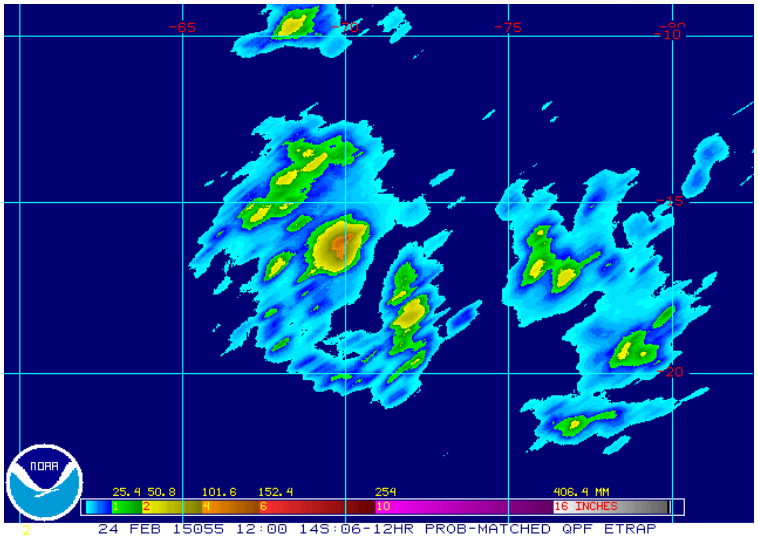
Formats: GeoTIFF and PNG
Average Sizes: 5.34 MB (GeoTIFF), 102 kB (PNG)
Frequency: 720 minutes
Max n° of files a day: 2 per format
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
MODSCW_P2014198_C6_1945_1950_2120_2125_2300_2305_WC05_closest_chlora
MODSCW_P2014198_C6_1945_1950_2120_2125_2300_2305_WC05_closest_chlora

- **Ensemble Tropical Rainfall Potential - eTRaP - 0 to 6 hours forecast**



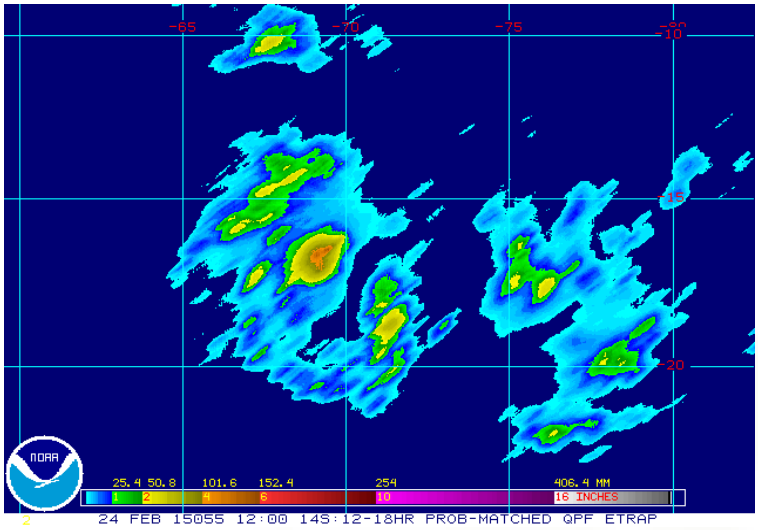
Format: GIF
Average Sizes: 15 kB
Frequency: Variable
Max n° of files a day: Variable
Instruments: AMSU, TRMM, SSMI and AMSRE
Naming Conventions:
eTRaP.*.p25.*.00

- **Ensemble Tropical Rainfall Potential - eTRaP - 6 to 12 hours forecast**



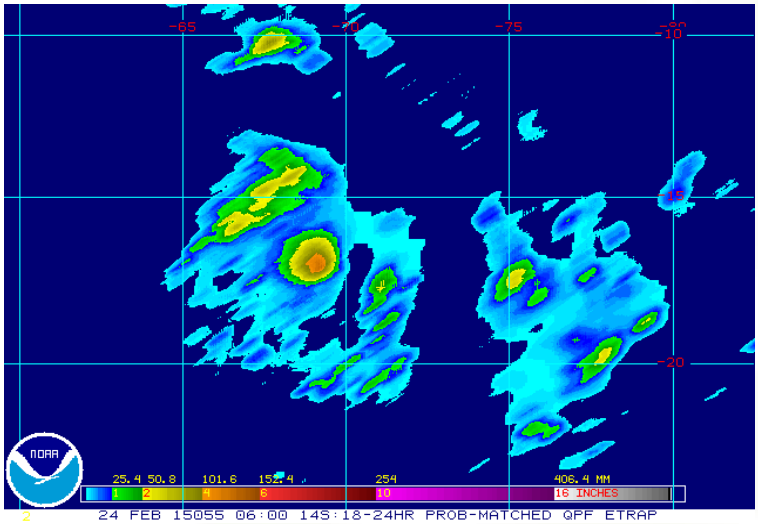
Format: GIF
Average Sizes: 15 kB
Frequency: Variable
Max n° of files a day: Variable
Instruments: AMSU, TRMM, SSMI and AMSRE
Naming Conventions:
eTRaP.*.p25.*.06

- **Ensemble Tropical Rainfall Potential - eTRaP - 12 to 18 hours forecast**



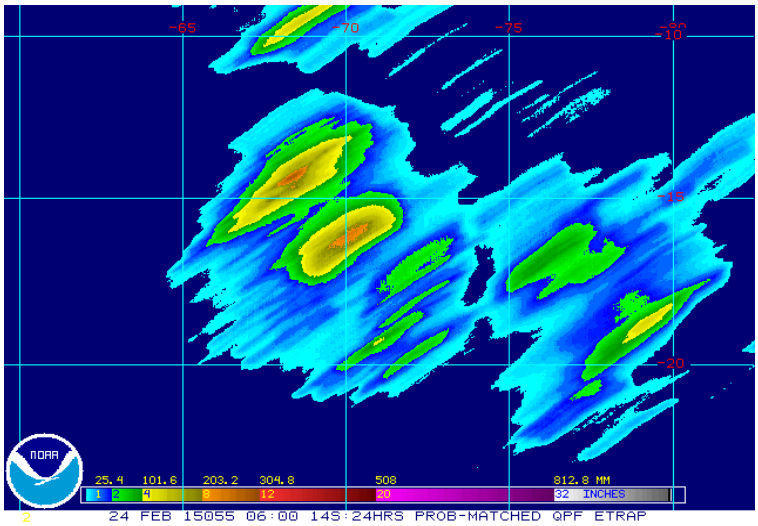
Format: GIF
Average Sizes: 15 kB
Frequency: Variable
Max n° of files a day: Variable
Instruments: AMSU, TRMM, SSMI and AMSRE
Naming Conventions:
eTRaP.*.p25.*.12

- **Ensemble Tropical Rainfall Potential - eTRaP - 18 to 24 hours forecast**



Format: GIF
Average Sizes: 15 kB
Frequency: Variable
Max n° of files a day: Variable
Instruments: AMSU, TRMM, SSMI and AMSRE
Naming Conventions:
eTRaP.*.p25.*.18

- **Ensemble Tropical Rainfall Potential - eTRaP - 24 hours accumulated forecast**

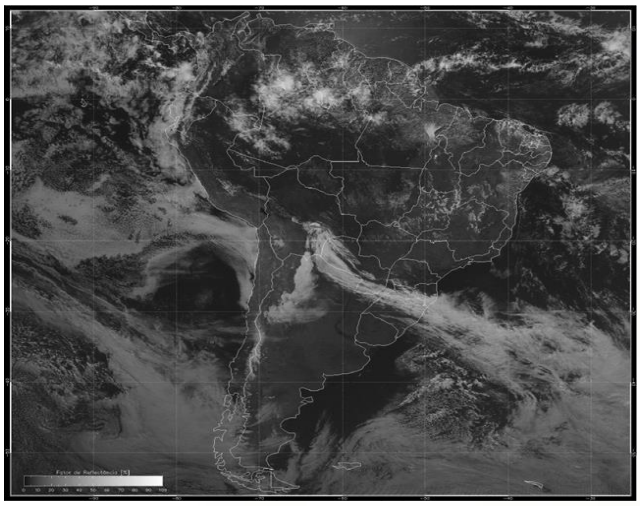


Format: GIF
Average Sizes: 15 kB
Frequency: Variable
Max n° of files a day: Variable
Instruments: AMSU, TRMM, SSMI and AMSRE
Naming Conventions:
eTRaP.*.p25.*.24

PROVIDER: INPE

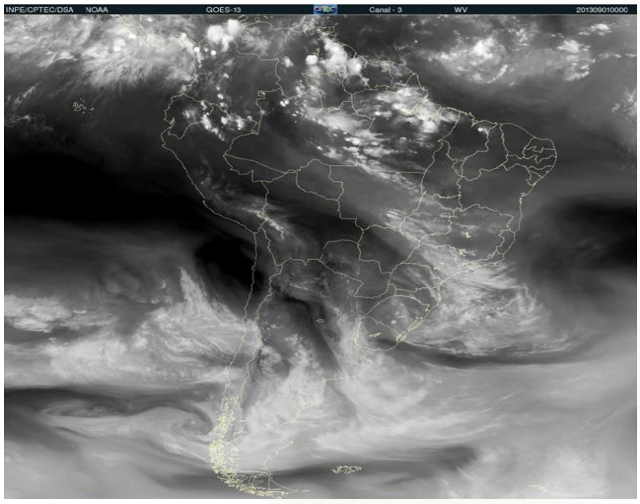
(National Institute for Space Research - Brazil)

- **GOES-13 – Visible Channel – South America**



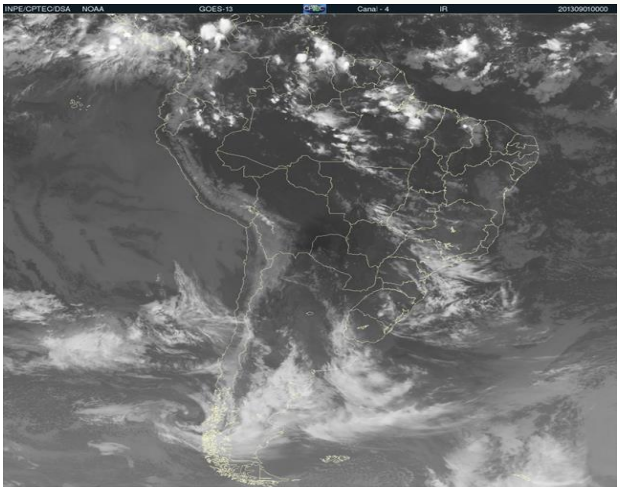
Formats: GeoTIFF and Georeferenced JPEG (JPG + JGW)
Average Sizes: 2.30 MB (GeoTIFF) / 590 kB (JPEG)
Frequency: 30 minutes
Max n° of files a day: 48 per format
GeoTIFF pixel info: Albedo x 100
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 µm, cent. at 0.63 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SAV_YYYYMMDDHHMN

- **GOES-13 – Water Vapor Channel – South America**



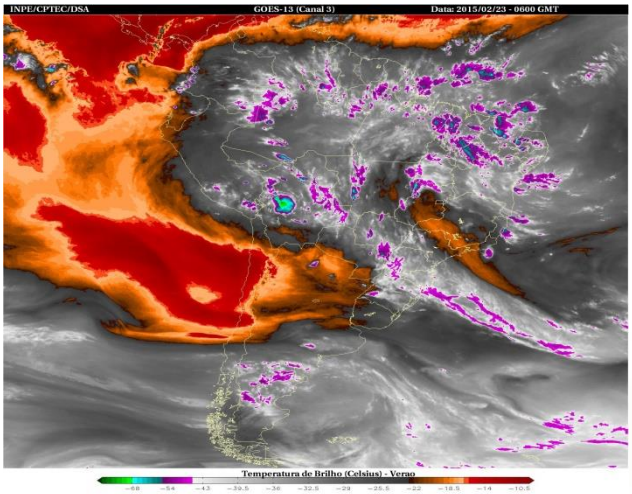
Formats: GeoTIFF and Georeferenced JPEG (JPG + JGW)**Average Sizes:** 1.70 MB (GeoTIFF) / 550 kB (JPEG)
Frequency: 30 minutes
Max n° of files a day: 48 per format
GeoTIFF pixel info: Brightness Temp. x 10
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 3
Wavelength: 5.77 to 7.33 µm, cent. at 6.50 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SAW_YYYYMMDDHHMN

- **GOES-13 – Infrared Channel – South America**



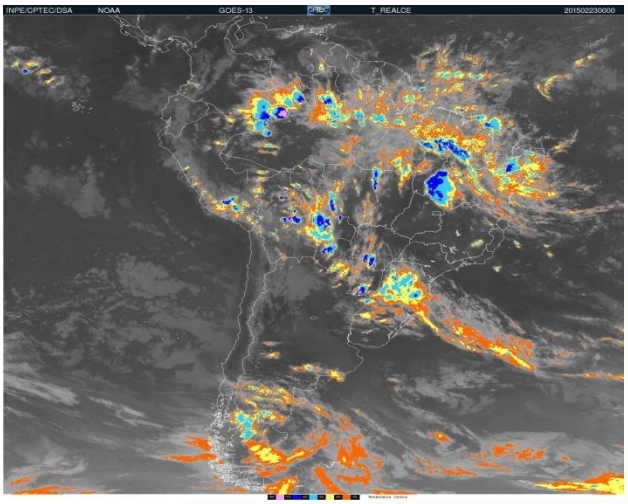
Formats: GeoTIFF and Georeferenced JPEG (JPG + JGW)
Average Sizes: 2.70 MB (GeoTIFF) / 640 kB (JPEG)
Frequency: 30 minutes
Max n° of files a day: 48 per format
GeoTIFF pixel info: Brightness Temp. x 10
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SAI_YYYYMMDDHHMN

- **GOES-13 – Water Vapor Channel Enhanced – South America**



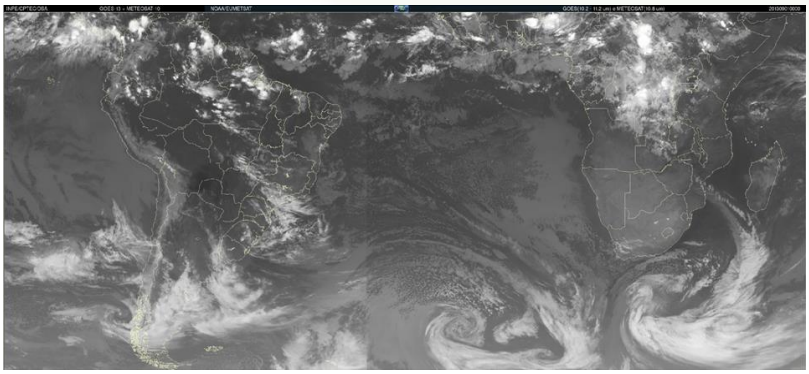
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 2.40 MB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 3
Wavelength: 5.77 to 7.33 µm, cent. at 6.50 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SWE_YYYYMMDDHHMN

- **GOES-13 – Infrared Channel Enhanced – South America**



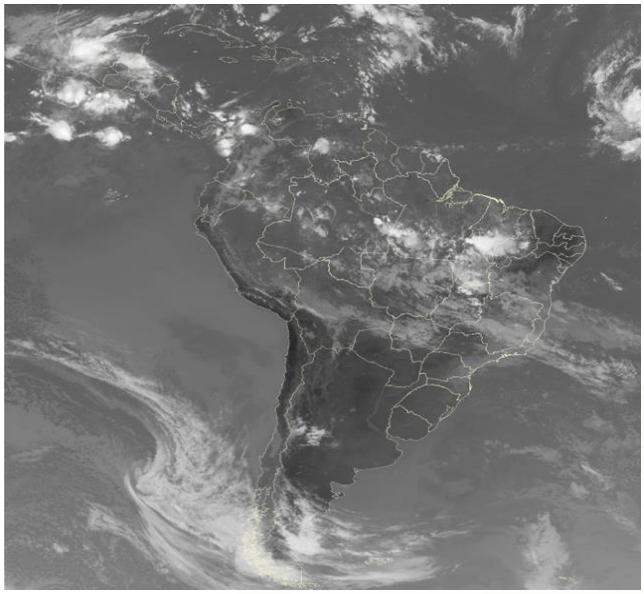
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 402 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SAE_YYYYMMDDHHMN

- **GOES-13 + METEOSAT 10 - Infrared Channel - South America and Africa**



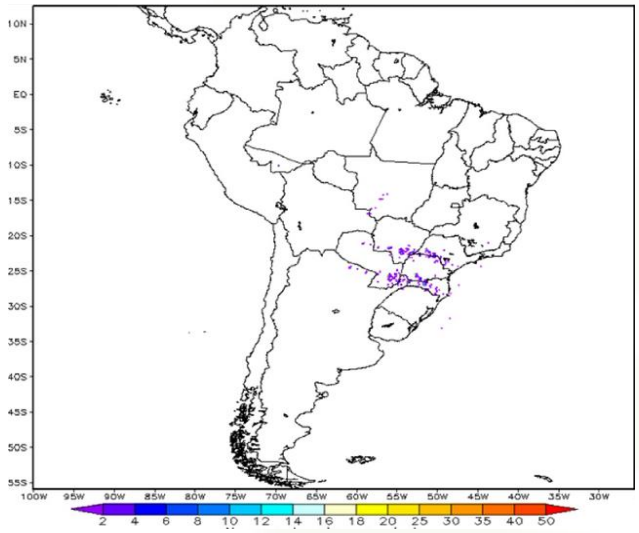
Formats: GeoTIFF and Georeferenced JPEG (JPG + JGW)
Average Sizes: 6.50 MB (GeoTIFF) / 708 kB (JPEG)
Frequency: 30 minutes
Max n° of files a day: 48 per format
GeoTIFF pixel info: Brightness Temp. x 10
Satellites: GOES-13 and METEOSAT-10
Instrument: GOES-13 Imager / SEVIRI
Channels: 4 and 9
Wavelengths:
10.20 to 11.20 µm, cent. at 10.70 µm
9.80 to 11.80 µm, cent. at 10.80 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_GMC_YYYYMMDDHHMN

- **GOES-13 – Infrared Channel – Central and South America**



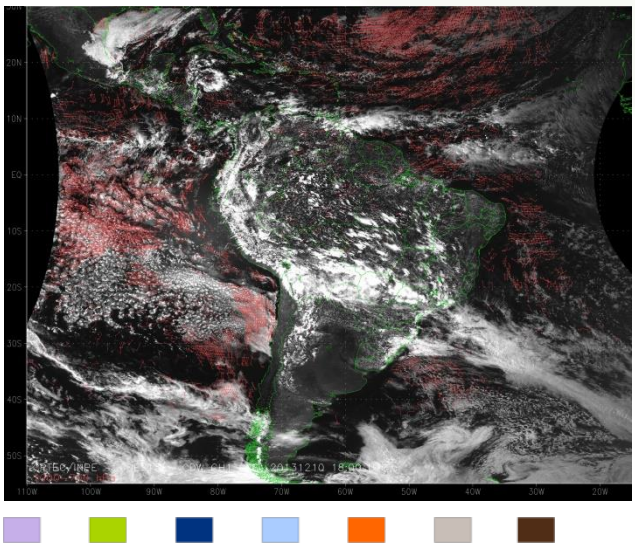
Format: GeoTIFF
Average Size: 3.60 MB
Frequency: 3 hours
Max n° of files a day: 8
GeoTIFF pixel info: Brightness Temp. x 10
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_CSI_YYYYMMDDHHMN

- **Lightning Discharges Images – South America**



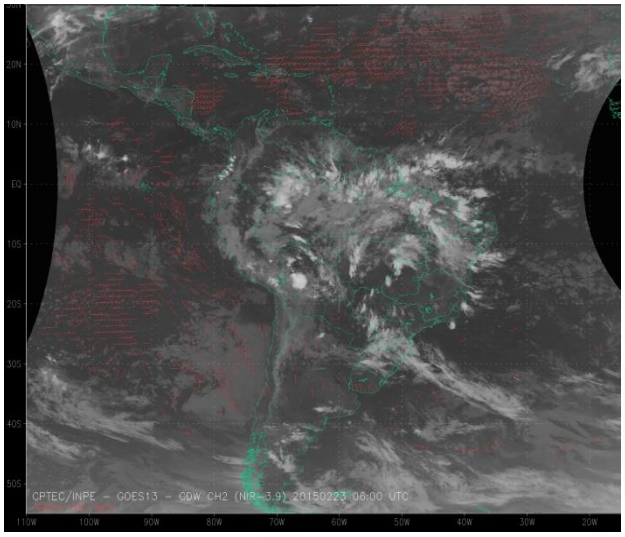
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 64 kB
Frequency: 30 minutes
Max n° of files a day: 48
Data Input: Lightning occurrence information collected by RINDAT ground network
Naming Convention:
INPE_LDI_YYYYMMDDHHMN

- **Wind Chart - Visible Channel (701-1000 hPa Daytime) - South America**



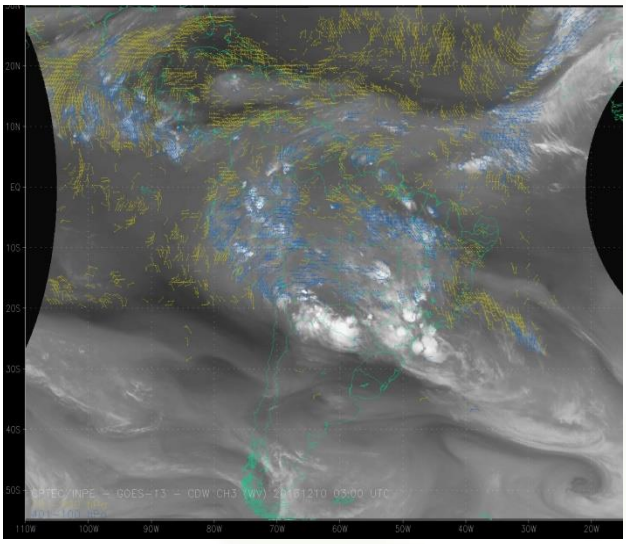
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 2.0 MB
Frequency: 30 minutes (daylight only)
Max n° of files a day: 20
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 µm, cent. at 0.63 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_GWV_YYYYMMDDHHMN

- **Wind Chart - Near Infrared Channel - (701-1000 hPa Nighttime) South America**



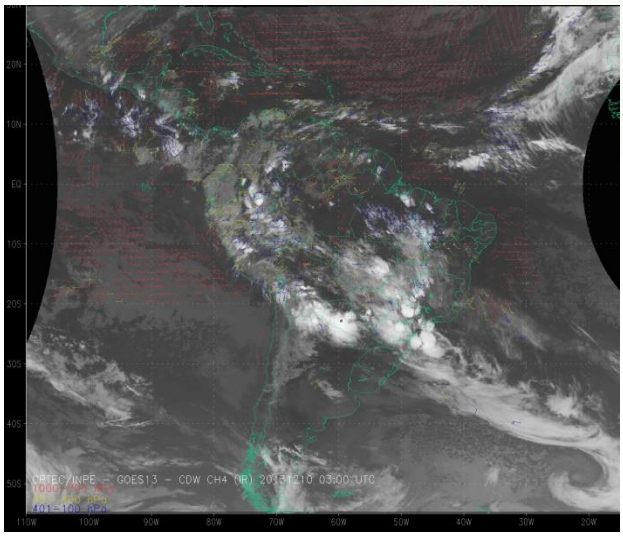
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 806 kB
Frequency: 30 minutes
Max n° of files a day: 25 (nighttime only)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 2
Wavelength: 3.78 to 4.03 µm, cent. at 3.90 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_GWN_YYYYMMDDHHMN

- **Wind Chart - Water Vapor Channel (100-400 and 401-700 hPa) - South America**



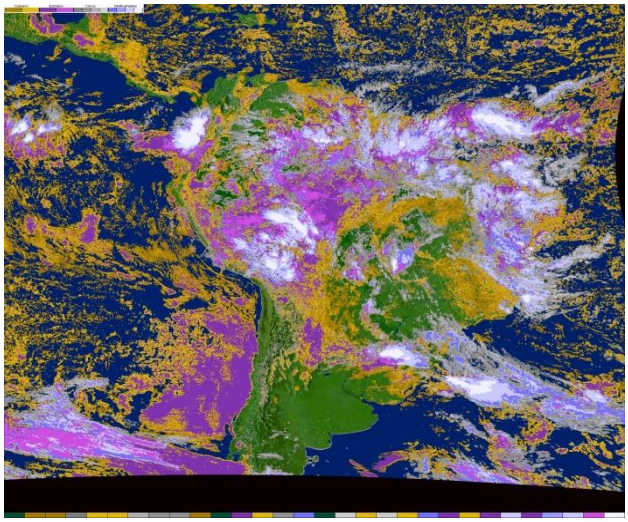
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1.23 MB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 3
Wavelength: 5.77 to 7.33 µm, cent. at 6.50 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_GWW_YYYYMMDDHHMN

- **Wind Chart - Infrared Channel - All Alitude Levels - South America**



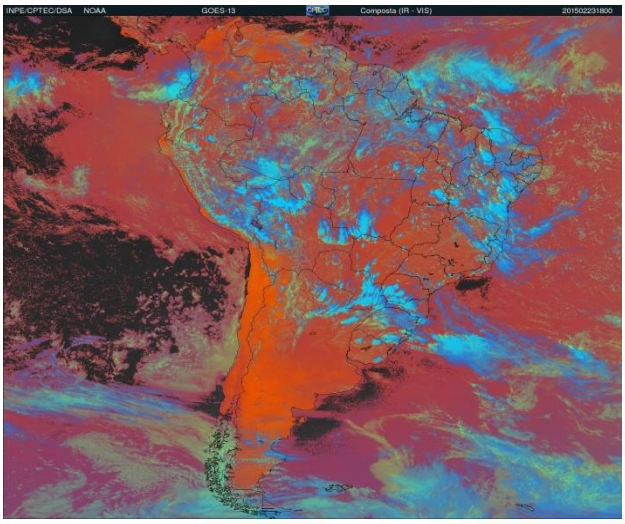
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1.12 MB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_GWI_YYYYMMDDHHMN

- **GOES-13 - Cloud Classification - South America**



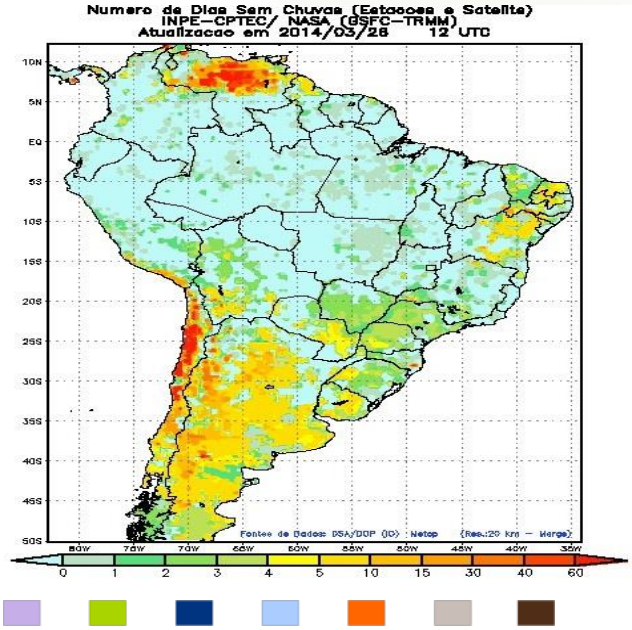
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1.40 MB
Frequency: 30 minutes
Max n° of files a day: 30 (daylight only)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channels: 1 and 4
Wavelength: 0.63 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_CLC_YYYYMMDDHHMN

- **GOES-13 – Channel Composite - South America**



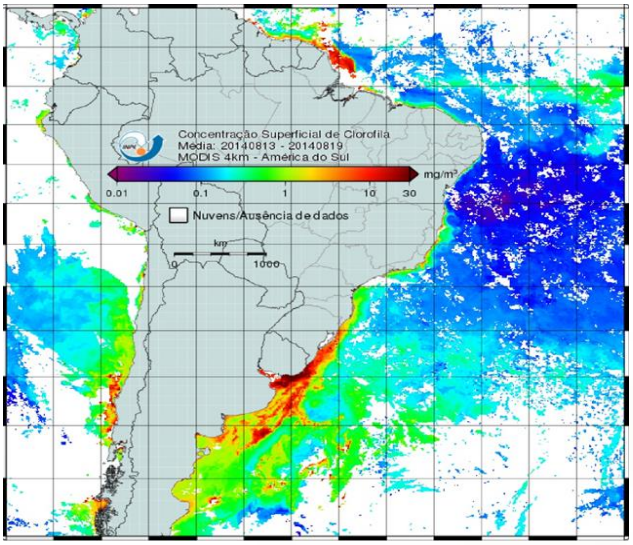
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 420 kB
Frequency: 30 minutes
Max n° of files a day: 30 (daylight only)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channels: 1 and 4
Wavelength: 0.63 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SAC_YYYYMMDDHHMN

- **Number of Days Without Rain – South America**



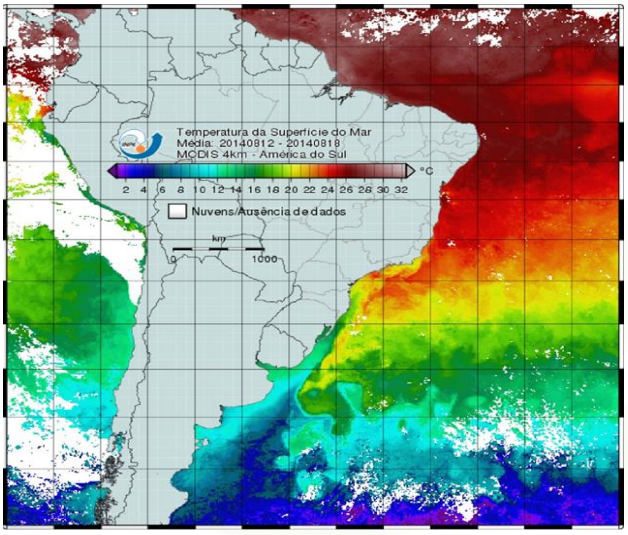
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 120 kB
Frequency: Daily
Data Input: TMPA NASA product derived from several satellite inputs (TRMM Radar / GOES-13 / DMSP / Aqua / NOAA) combined with data from Meteorological Surface Stations
Projection: Rectangular
Resolution: 24 x 24 km
Naming Convention:
INPE_NDR_YYYYMMDDHHMN

- **Sea Surface Chlorophyll - South America**



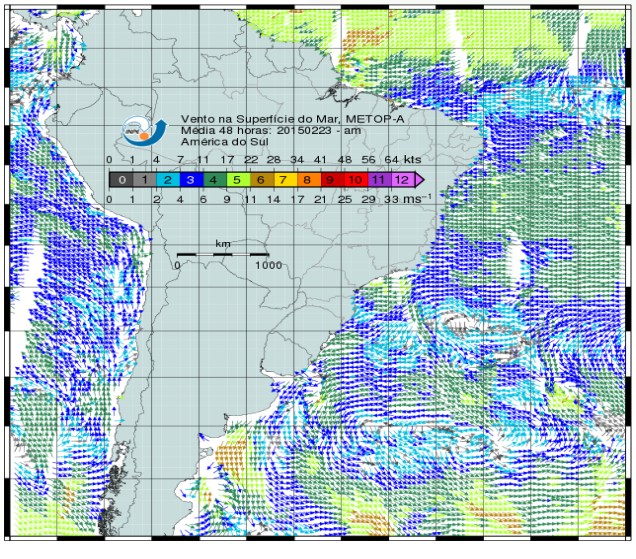
Format: Georeferenced PNG (PNG + PGW)
Average Size: 245 kB
Frequency: Daily
Satellite: AQUA
Instrument: MODIS
Channels / Bands used: Channels 8 to 16 (412 nm to 869 nm)
Projection: Rectangular
Resolution: 1 x 1 km
Naming Convention:
INPE_SSC_YYYYMMDDHHMN

- **Sea Surface Temperature - South America**



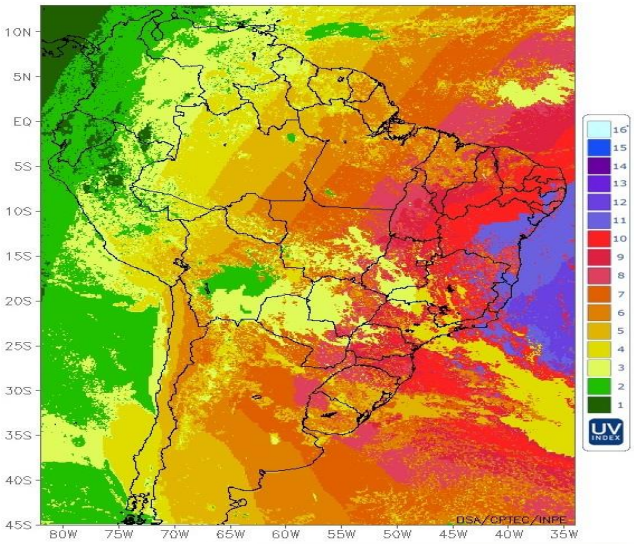
Format: Georeferenced PNG (PNG + PGW)
Average Size: 410 kB
Frequency: Daily
Satellite: AQUA
Instrument: MODIS
Channels / Bands used: 31 (10.30 – 11.30 µm) / 32 (11.50 – 12.50 µm)
Projection: Rectangular
Resolution: 1 x 1 km
Naming Convention:
INPE_SST_YYYYMMDDHHMN

- **Sea Surface Winds - South America**



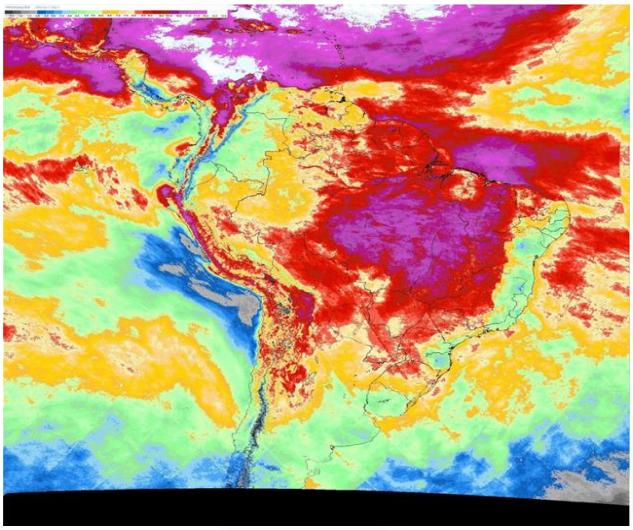
Format: Georeferenced PNG (PNG + PGW)
Average Size: 410 kB
Frequency: Twice a Day
Satellite: METOP A/B
Instrument: ASCAT
Projection: Rectangular
Naming Convention:
INPE_SSW_YYYYMMDDHHMN

- **Ultraviolet Index – South America**



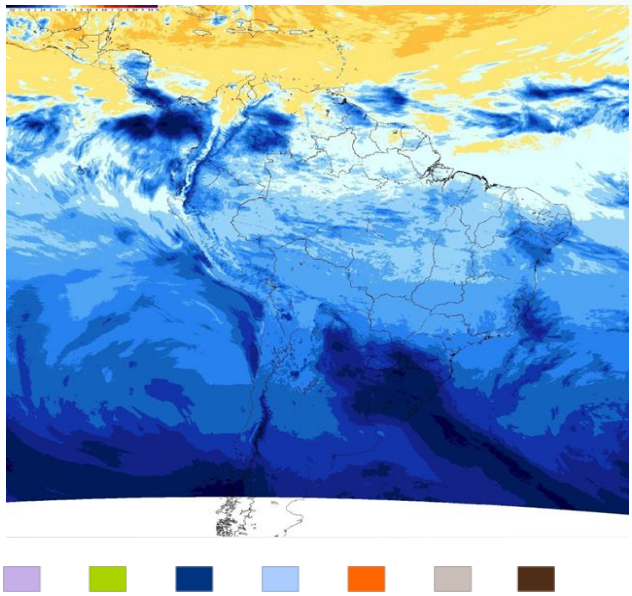
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 170 kB
Frequency: 30 min
Max n° of files a day: 25 (daylight only)
Data Input: Ozone concentration from NCEP/NOAA analysis and GOES-13 imagery (Cloud type estimation)
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_UVI_YYYYMMDDHHMN

- **Accumulated Average Insolation - South America**



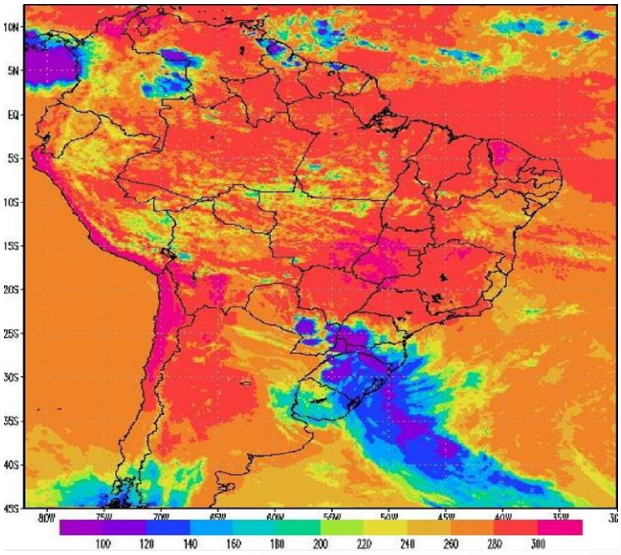
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1.68 MB
Frequency: Daily
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 µm, cent. at 0.63 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_AAI_YYYYMMDDHHMN

- **Global Solar Radiation - South America**



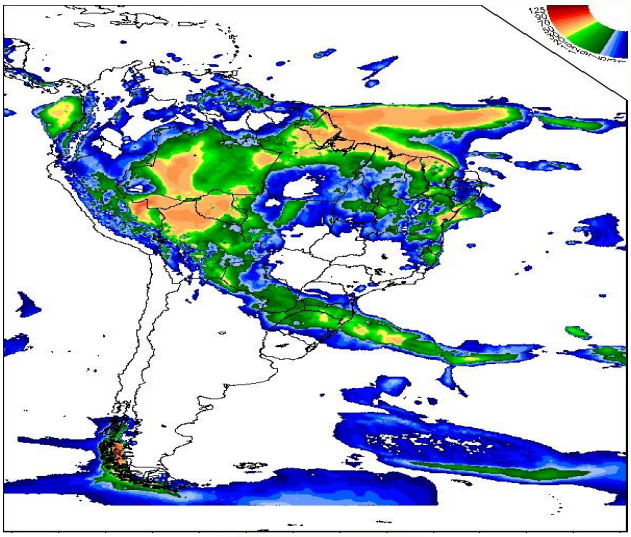
Formats: GeoTIFF and Georeferenced JPEG (JPG + JGW)
Average Sizes: 3.83 MB (GeoTIFF) / 1.07 MB (JPEG)
Frequencies: Monthly (GeoTIFF) / Daily (JPEG)
GeoTIFF pixel info: W/m² x 10
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 µm, cent. at 0.63 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_GSR_YYYYMMDDHHMN

- **Long Wave Radiation - South America**



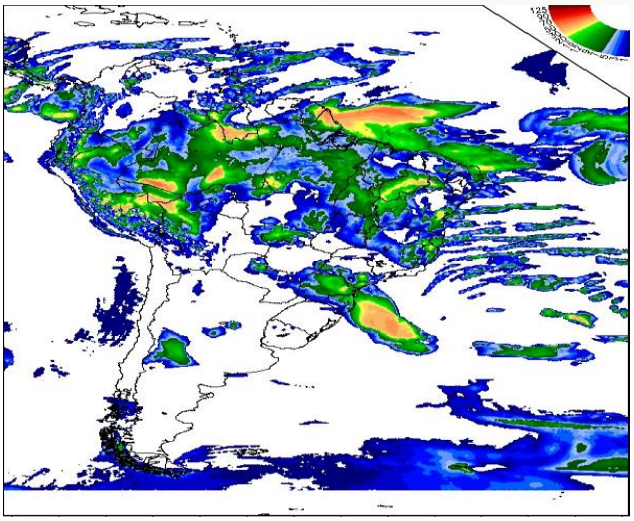
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 180 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_LWR_YYYYMMDDHHMN

- **Accumulated Precipitation Forecast - 24 Hours - South America**



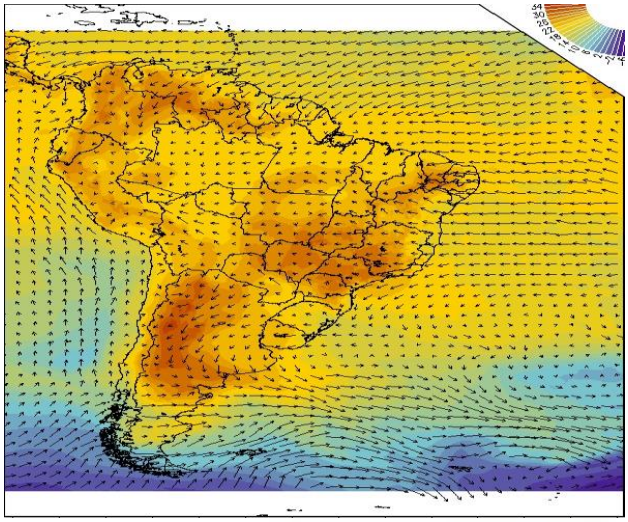
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 180 kB
Frequency: Daily
Naming Convention:
INPE_RP1_YYYYMMDDHHMN

- **Accumulated Precipitation Forecast - 48 Hours - South America**



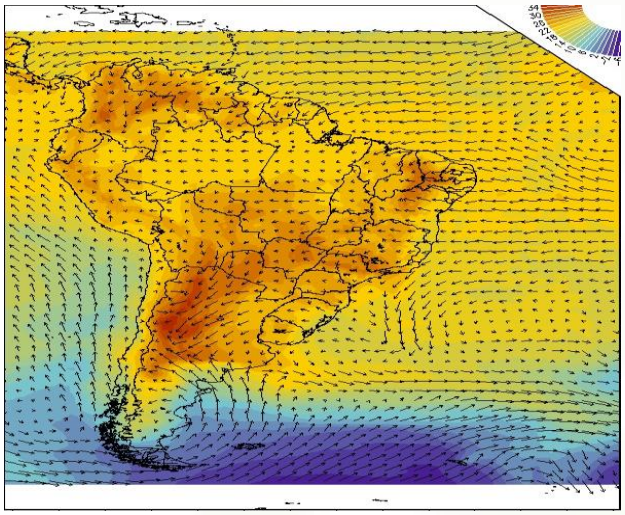
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 200 kB
Frequency: Daily
Naming Convention:
INPE_RP2_YYYYMMDDHHMN

- **Air Temperature and Wind at 925 hPa - 24 Hours - South America**



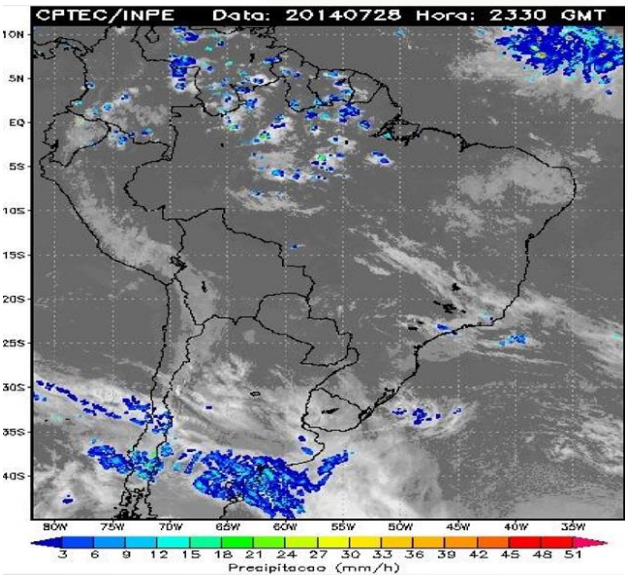
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 265 kB
Frequency: Daily
Naming Convention:
INPE_RT1_YYYYMMDDHHMN

- **Air Temperature and Wind at 925 hPa - 48 Hours - South America**



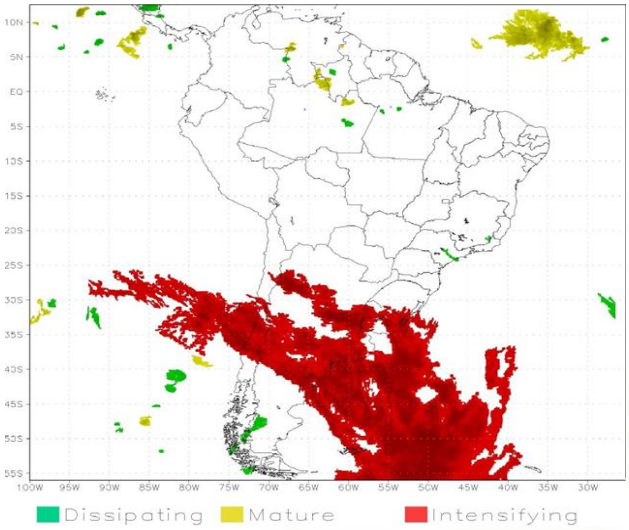
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 265 kB
Frequency: Daily
Naming Convention:
INPE_RT2_YYYYMMDDHHMN

- **Instantaneous Precipitation - South America**



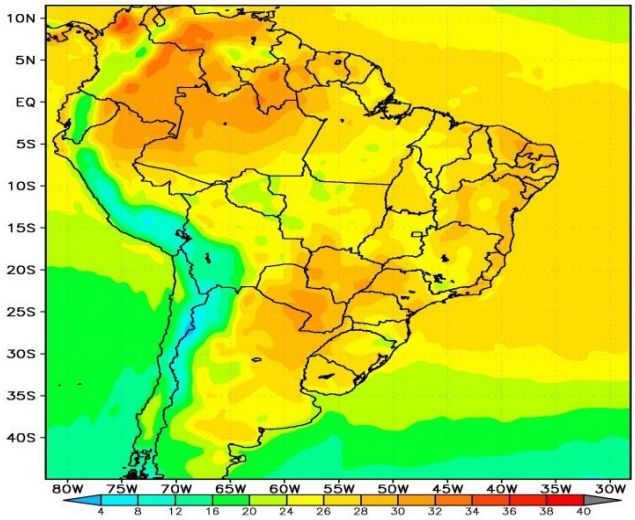
Formats: GeoTIFF and Georeferenced JPEG (JPG + JGW)
Average Sizes: 40 kB (GeoTIFF) / 115 kB (JPEG)
Frequency: 30 minutes
Max n° of files a day: 48 per format
GeoTIFF pixel info: 0 ~ 255
Max n° of files a day: 48
Data Input: GOES-13 imagery (Cloud top brightness temperature)
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_RFS_YYYYMMDDHHMN

- **Forecast and Tracking the Evolution of Cloud Clusters - ForTraCC - South America**



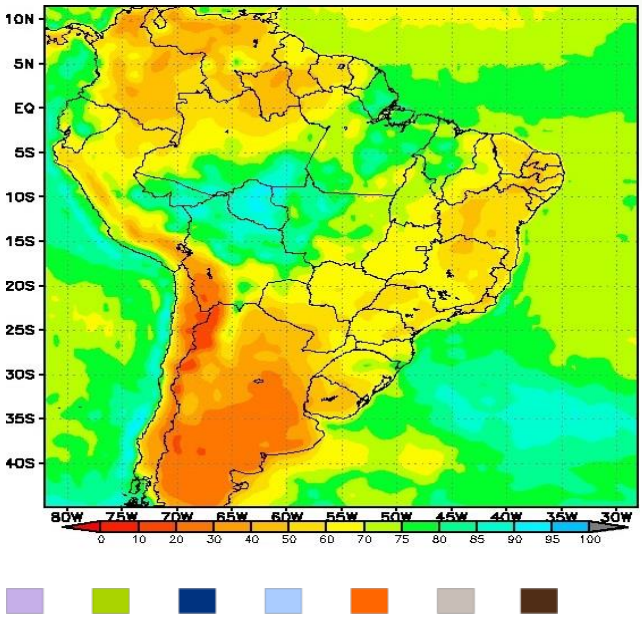
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 410 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_RFS_YYYYMMDDHHMN

- **Average Maximum Air Temperature - South America**



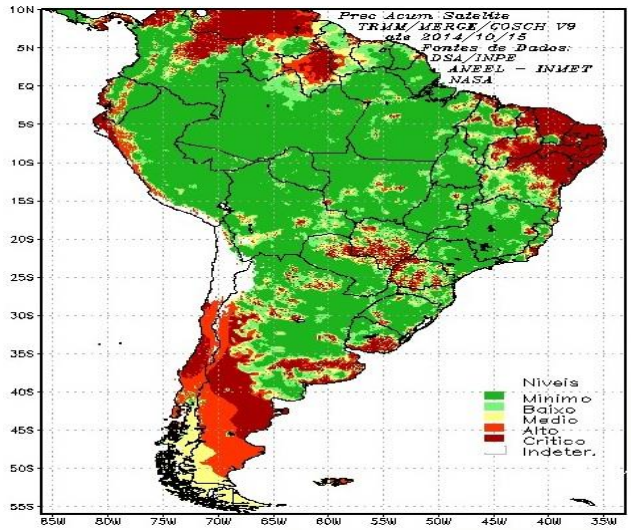
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 145 kB
Frequency: Daily
Naming Convention:
INPE_AMT_YYYYMMDDHHMN

- **Average Minimum Relative Humidity - South America**



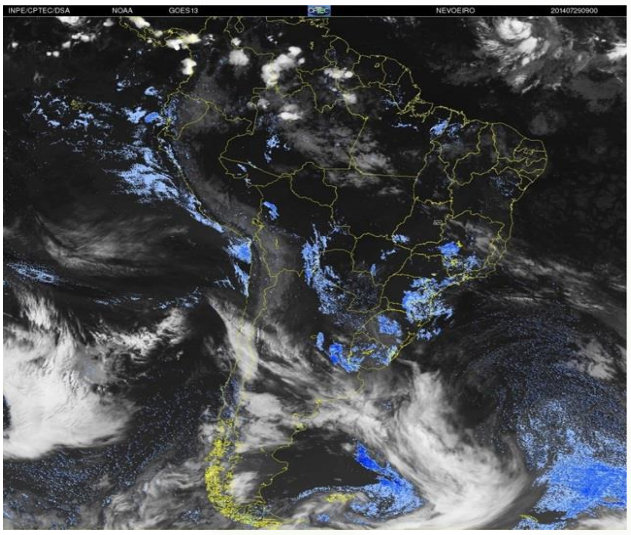
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 155 kB
Frequency: Daily
Naming Convention:
INPE_ARH_YYYYMMDDHHMN

- **Fire Risk Map - South America**



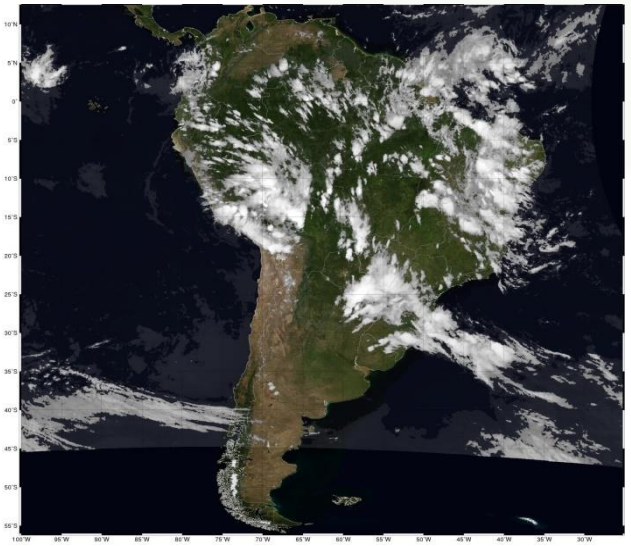
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 145 kB
Frequency: Daily
Naming Convention:
INPE_FRM_YYYYMMDDHHMN

- **Fog - South America**



Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1.96 MB
Frequency: 30 minutes
Max n° of files a day: 25 (nighttime only)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 2 and 4
Wavelength: 3.90 and 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SAF_YYYYMMDDHHMN

- **GOES-13/AQUA/TERRA - Blue Marble - South America**

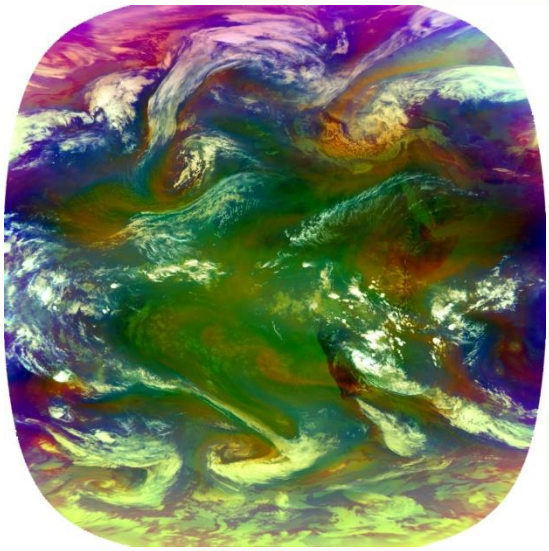


Format: Georeferenced JPEG (JPG + JGW)
Average Size: 700 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellites: GOES-13/AQUA/TERRA
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Naming Convention:
INPE_SAD_YYYYMMDDHHMN

- **METEOSAT-10 – Natural Colors RGB Composite**

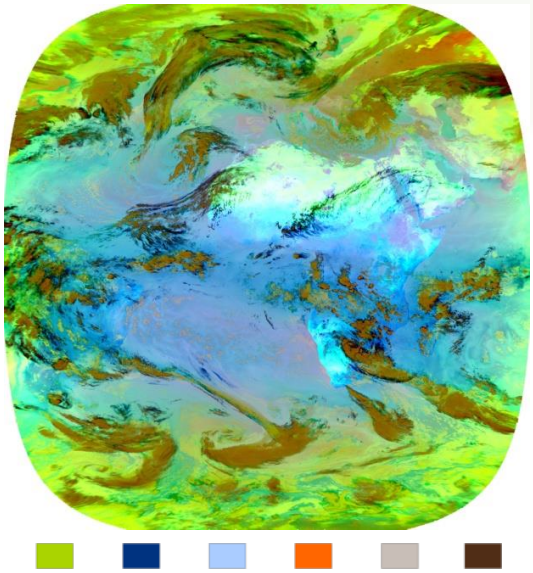
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1200 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: METEOSAT-10
Instrument: SEVIRI
Projection: Rectangular
Naming Convention:
INPE_NAT_YYYYMMDDHHMN

- **METEOSAT-10 – Airmass RGB Composite**



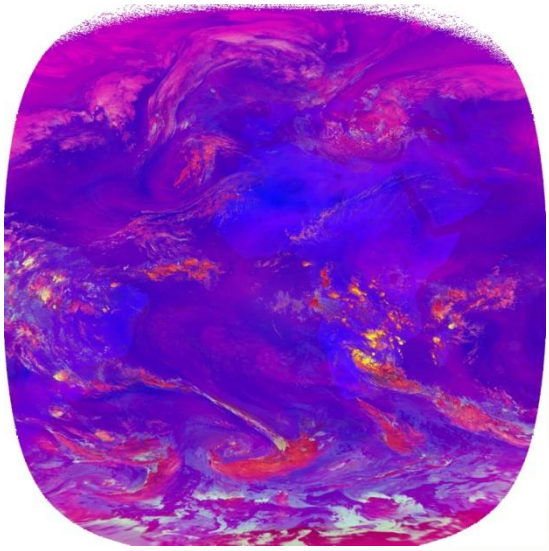
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1400 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: METEOSAT-10
Instrument: SEVIRI
Projection: Rectangular
Naming Convention:
INPE_AIR_YYYYMMDDHHMN

- **METEOSAT-10 – Ash RGB Composite**



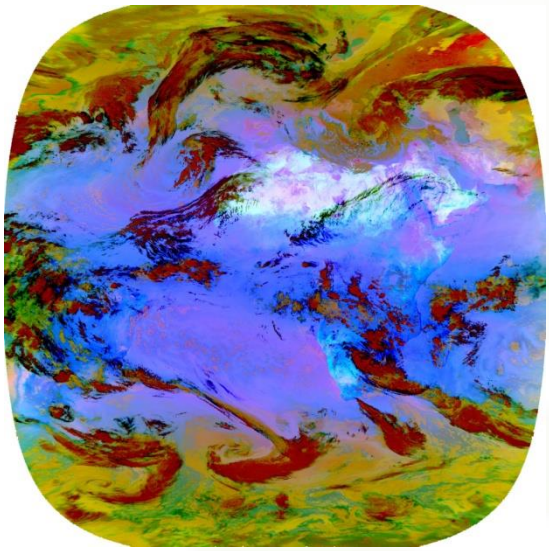
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 2000 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: METEOSAT-10
Instrument: SEVIRI
Projection: Rectangular
Naming Convention:
INPE_ASH_YYYYMMDDHHMN

- **METEOSAT-10 – Convective Systems RGB Composite**



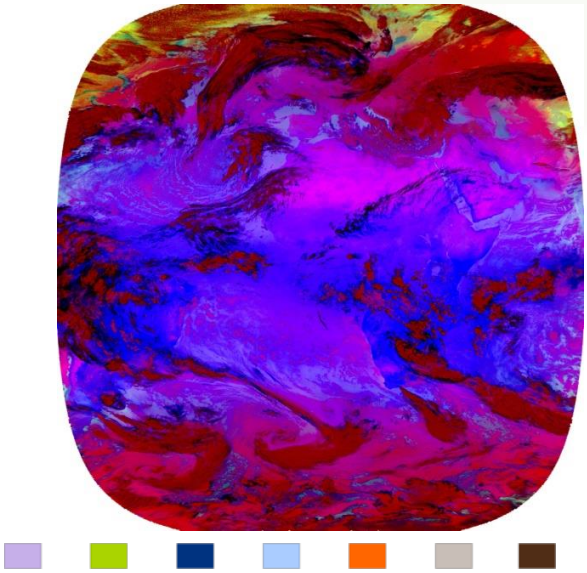
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 1150 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: METEOSAT-10
Instrument: SEVIRI
Projection: Rectangular
Naming Convention:
INPE_CON_YYYYMMDDHHMN

- **METEOSAT-10 – Dust RGB Composite**



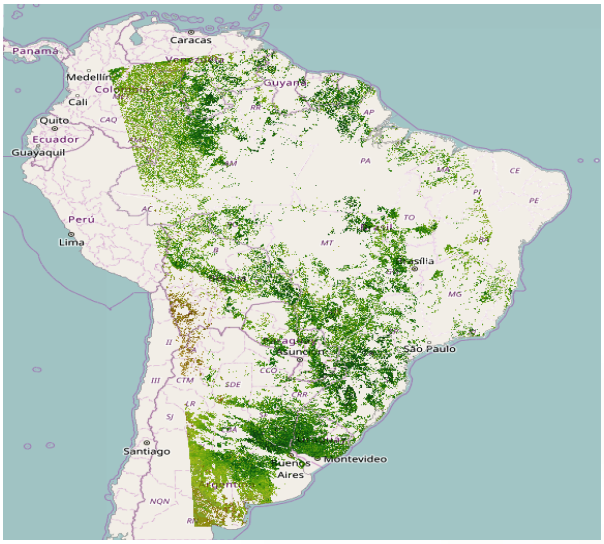
Format: Georeferenced JPEG (JPG + JGW)
Average Size: 2000 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: METEOSAT-10
Instrument: SEVIRI
Projection: Rectangular
Naming Convention:
INPE_DST_YYYYMMDDHHMN

- **METEOSAT-10 – Fog RGB Composite**



Format: Georeferenced JPEG (JPG + JGW)
Average Size: 2000 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: METEOSAT-10
Instrument: SEVIRI
Projection: Rectangular
Naming Convention:
INPE_FOG_YYYYMMDDHHMN

- **NPP – Normalized Difference Vegetation Index (Daily) – South America**



Format: Color GeoTIFF (ZIP)
Average Size: 1600 kB
Frequency: Daily
Max n° of files a day: 1
GeoTIFF pixel info: 0 ~ 255
Satellite: NPP
Instrument: VIIRS
Projection: Rectangular
Naming Convention:
INPE_NDVID_YYYYMMDDHHMN

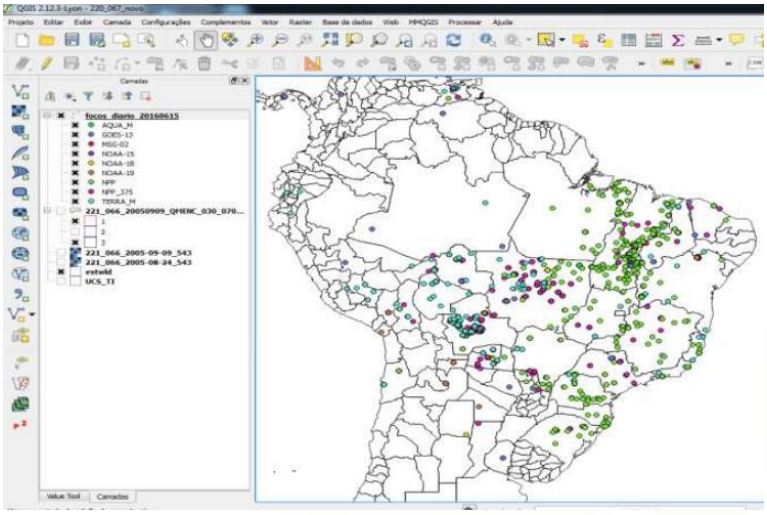
- **NPP – Normalized Difference Vegetation Index (Biweekly) – South America**

Format: Color GeoTIFF (ZIP)
Average Size: 4500 kB
Frequency: Biweekly
GeoTIFF pixel info: 0 ~ 255
Satellite: NPP
Instrument: VIIRS
Projection: Rectangular
Naming Convention:
INPE_NDVIB_YYYYMMDDHHMN

- **NPP – Normalized Difference Vegetation Index (Monthly) – South America**

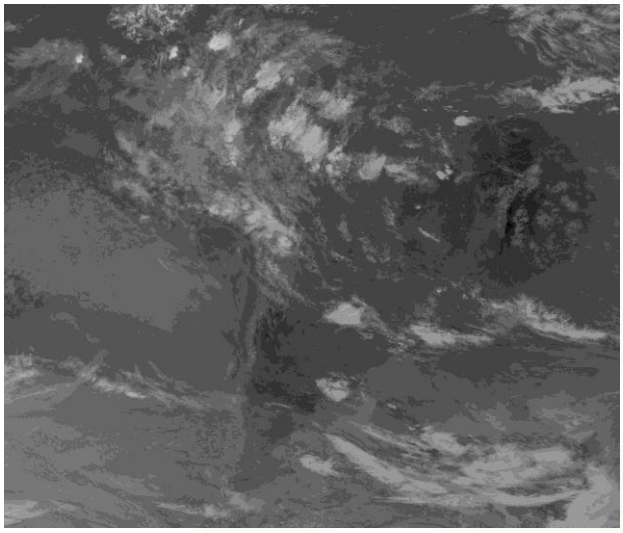
Format: Color GeoTIFF (ZIP)
Average Size: 4500 kB
Frequency: Monthly
GeoTIFF pixel info: 0 ~ 255
Satellite: NPP
Instrument: VIIRS
Projection: Rectangular
Naming Convention:
INPE_NDVIM_YYYYMMDDHHMN

- **Monitoring of Vegetation Fires – Multimission (AQUA, TERRA, METOP, NOAA, NPP, METEOSAT, GOES)**



Format: Shapefile (SHP + SHX + DBF)
Average Size: 1500 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellites: AQUA, TERRA, METOP, NOAA, NPP, METEOSAT, GOES
Projection: Rectangular
Naming Convention:
INPE_MVF_YYYYMMDDHHMN

- **GOES-13 – Near Infrared Channel – South America**

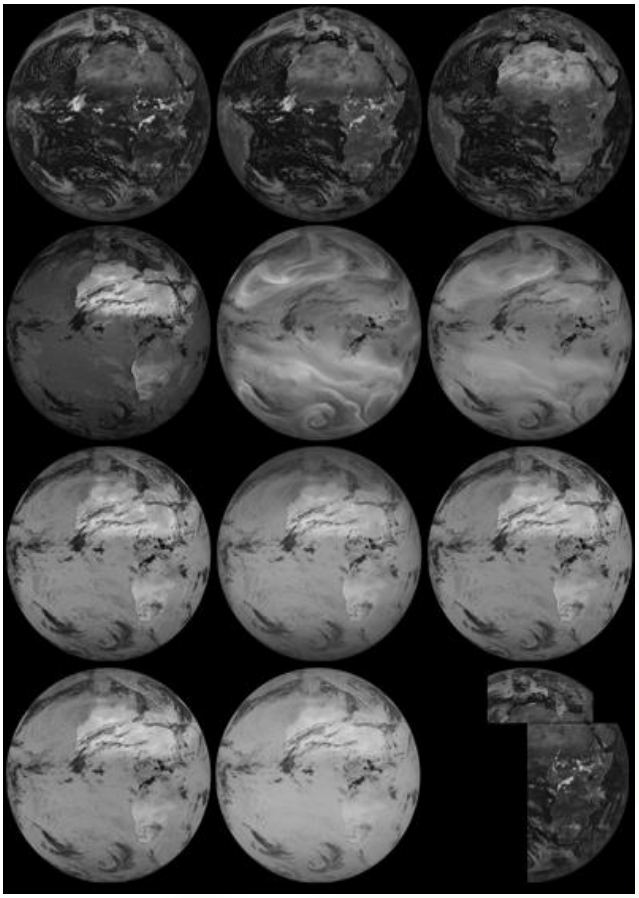


Formats: Georeferenced JPEG (JPG + JGW)
Average Size: 370 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 2
Wavelength: **3**.78 to 4.03 µm, cent. at 3.9 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
INPE_SAN_YYYYMMDDHHMN

PROVIDER: EUMETSAT

(European Organization for the Exploitation of Meteorological Satellites – Europe / Intergovernmental)

- **SEVIRI Level 1.5 Image Data - MSG - 0 degree**

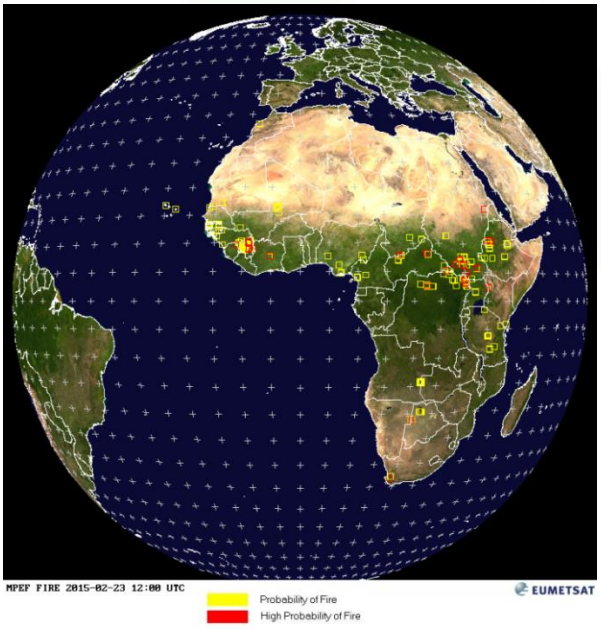


Format: HRIT
Average Size: 90 MB
Frequency: 3 hours
Max n° of files a day: 114 x 8
Satellite: METEOSAT-10
Instrument: SEVIRI
Channels / Resolutions:
VIS0.6 - 3,0 km
VIS0.8 - 3,0 km
IR1.6 - 3,0 km
IR3.9 - 3,0 km
WV6.2 - 3,0 km
WV7.3 - 3,0 km
IR 8.7 - 3,0 km
IR9.7 - 3,0 km
IR10.8 - 3,0 km
IR 12.0 - 3,0 km
IR13.4 - 3,0 km
HRV - 1,0 km

Naming Conventions:

H-000-MSG3__-MSG3_____-IR_120___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-VIS006___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-IR_039___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-VIS008___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-IR_087___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-IR_097___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-WV_062___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-WV_073___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-HRV_____000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-IR_134___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-IR_108___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-IR_016___000001___-YYYMMDDHHMN--C_
H-000-MSG3__-MSG3_____-_____-PRO_____-YYYYMMDDHHMN--__
H-000-MSG3__-MSG3_____-_____-EPI_____-YYYYMMDDHHMN--__

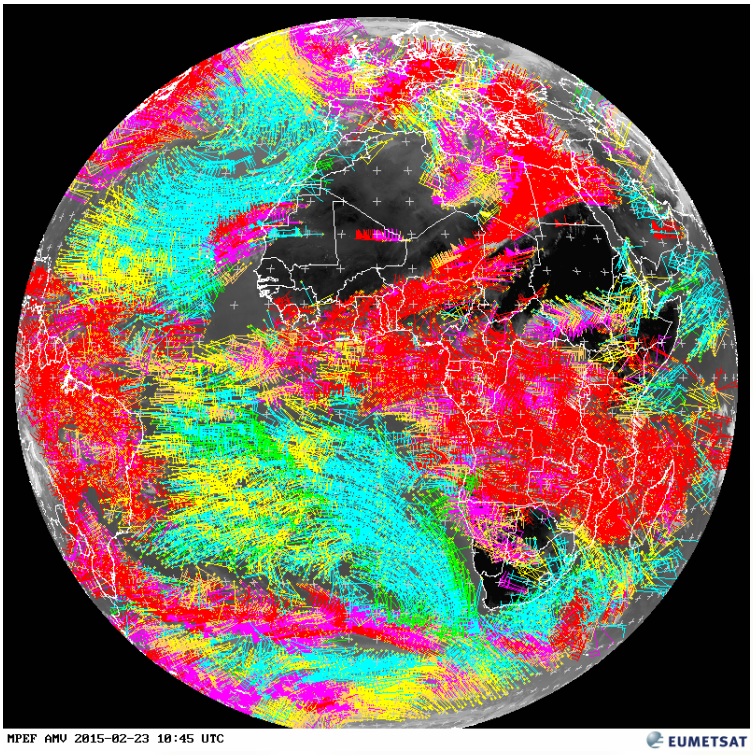
- **Active Fire Monitoring - MSG - 0 degree**



Formats: CAP (Common Alert Protocol) and GRIB2
Files per day: 192 per format
Volume per day: 2 MB (CAP) and 1.5 MB (GRIB2)
Naming Convention:
L-000-MSG?__-MPEF_____-FIRC[_]*

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.

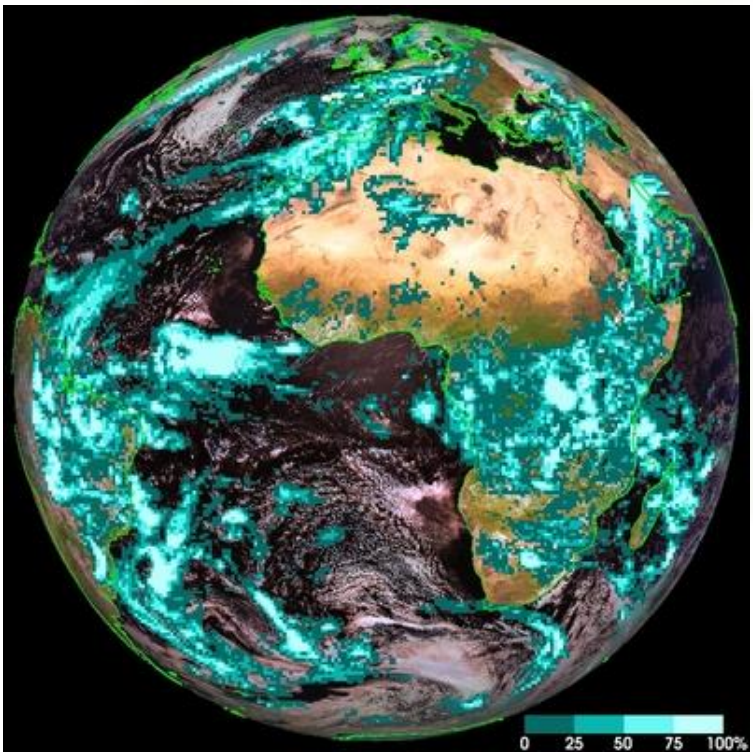
- **Atmospheric Motion Vectors - MSG - 0 degree**



Format: BUFR
Files per day: 48
Volume per day: 52 MB
Naming Convention:
L-000-MSG?__-MPEF_____-AMV[_]*

Atmospheric Motion Vectors at all heights below the tropopause, derived from 5 channels (Visual 0.8, Water Vapour 6.2, Water Vapour 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 vapour 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.

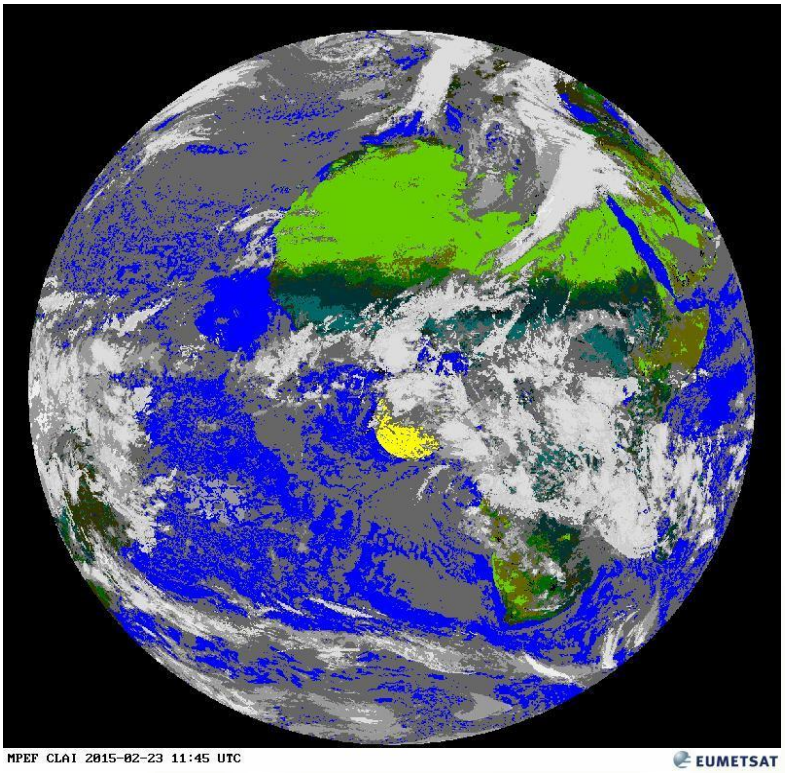
- **Cloud Analysis - MSG - 0 degree**



Format: BUFR
Files per day: 32
Volume per day: 12 MB
Naming Convention:
L-000-MSG?__-MPEF_____-CLA[_]*

Identification of cloud layers with cloud type and coverage, height and temperature. Applications and users: Weather forecasting, numerical weather prediction, climate research and monitoring.

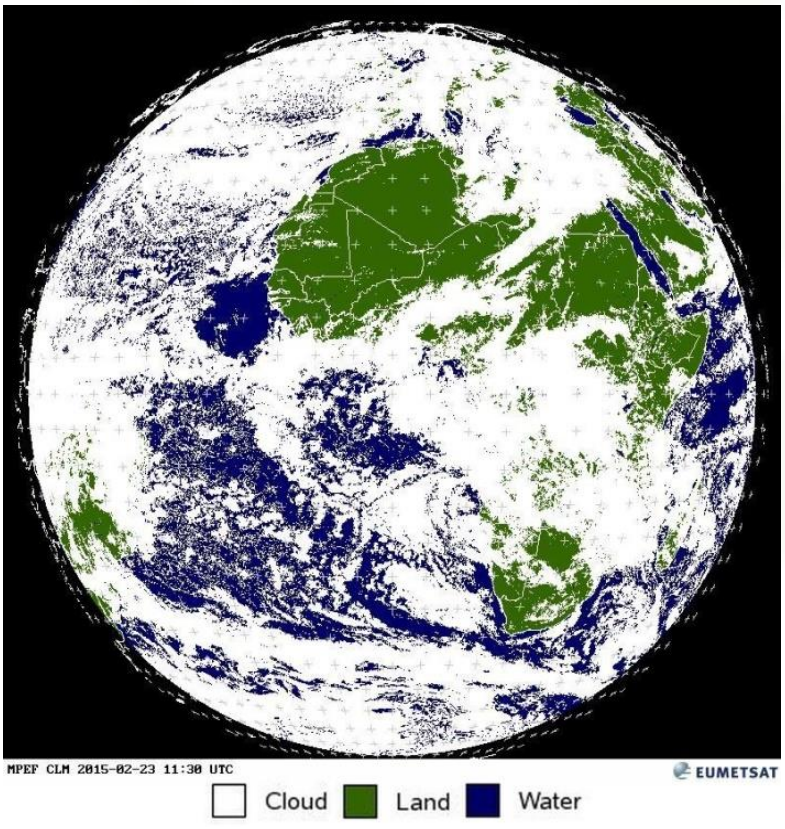
- **Cloud Analysis Image - MSG - 0 degree**



Format: GRIB2
Files per day: 32
Volume per day: 9.5 MB
Naming Convention:
L-000-MSG?__-MPEF_____-CLAI[_]*

Identification of scenes type for each image segment. This is an image product derived along with CLA. Applications and Users: Weather forecasting, numerical weather prediction, climate research and monitoring.

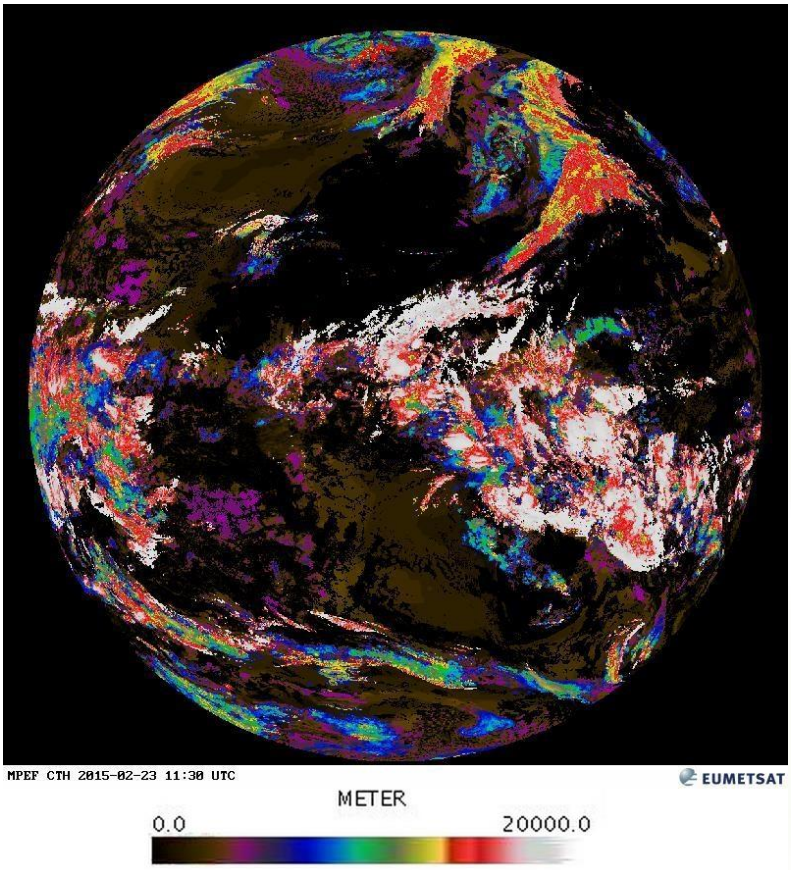
- **Cloud Mask - MSG - 0 degree**



Format: GRIB2
Files per day: 672
Volume per day: 325 MB
Naming Convention:
L-000-MSG?__-MPEF_____-CLM[_]*

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.

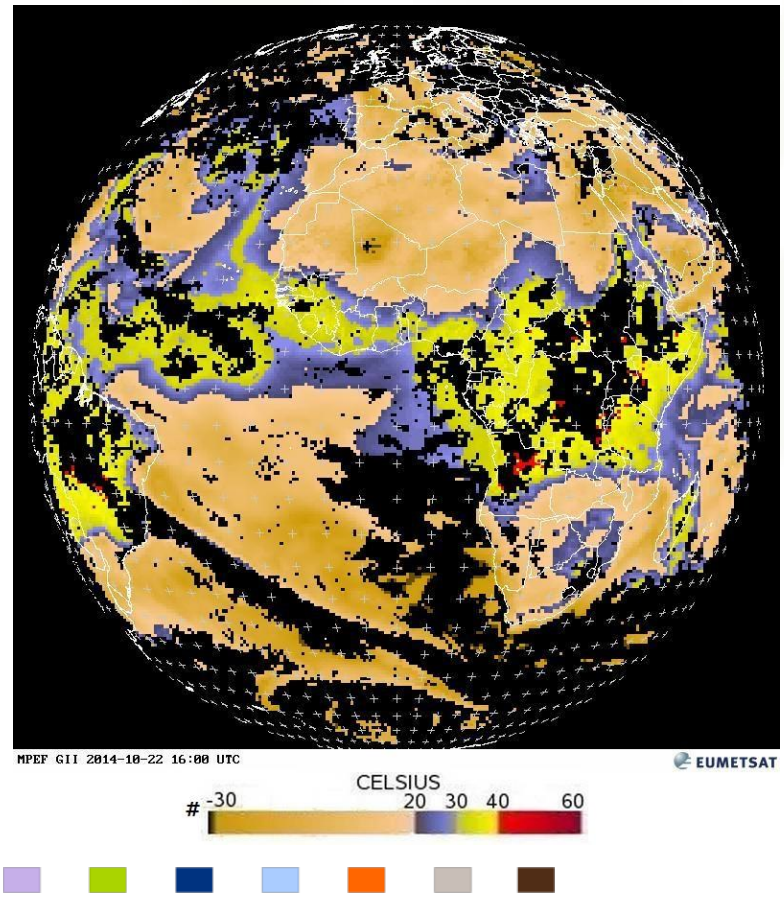
- **Cloud Top Height - MSG - 0 degree**



Format: GRIB2
Files per day: 288
Volume per day: 80 MB
Naming Convention:
L-000-MSG?__-MPEF_____-CTH[_]*

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.

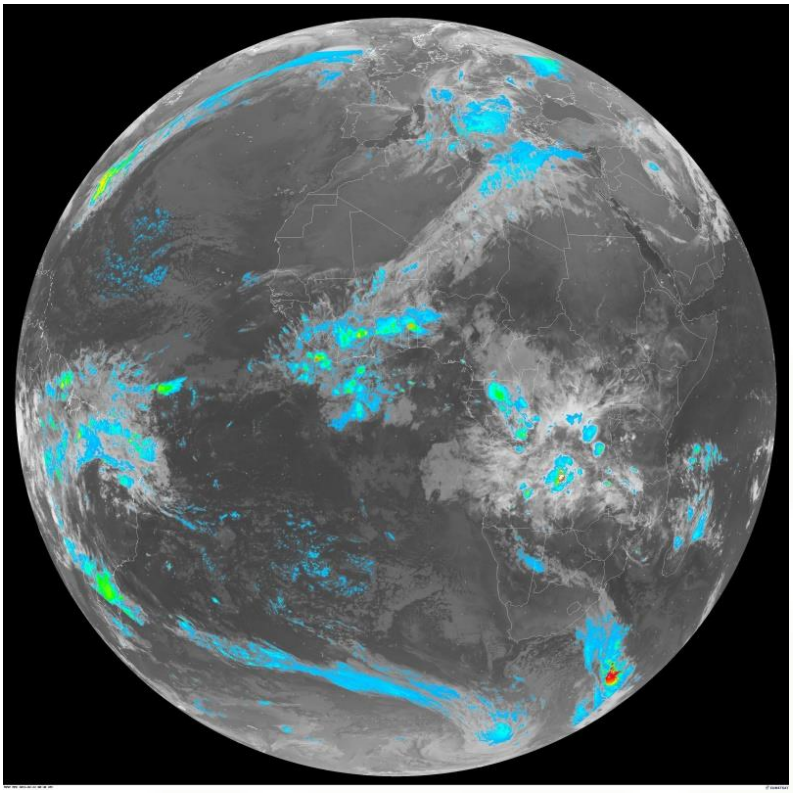
- **Global Instability Index - MSG - 0 degree**



Format: BUFR
Files per day: 192
Volume per day: 840 MB
Naming Convention:
L-000-MSG?__-MPEF_____-GII[_]*

Atmospheric air mass instability in cloud free areas. 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.

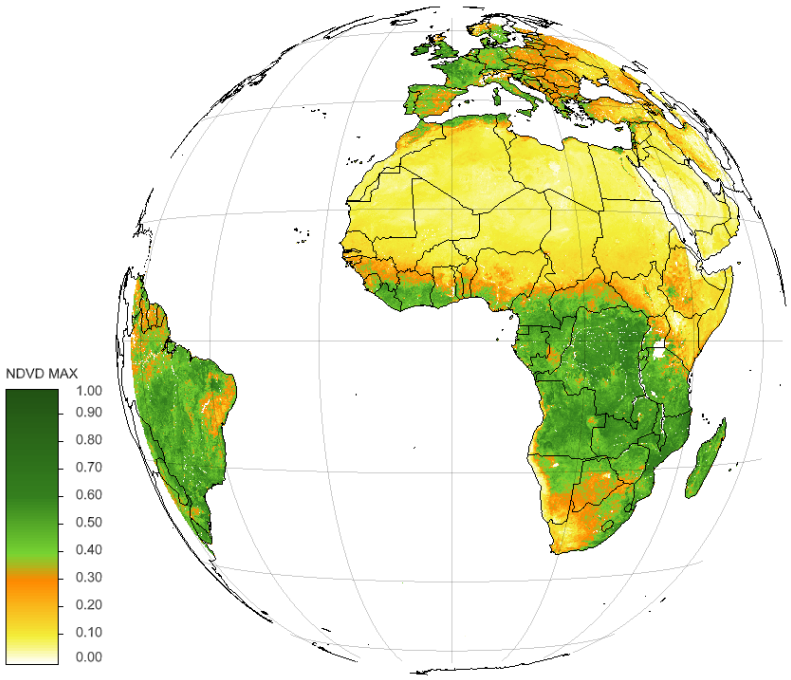
- **Multi-Sensor Precipitation Estimate (GRIB) - MSG - 0 degree**



Format: GRIB2
Files per day: 480
Volume per day: 210 MB
Naming Convention:
L-000-MSG?__-MPEF_____-MPEG[_]*

The Multi-Sensor Precipitation Estimate (MPE) product consists of the near-real-time rain rates in mm/hr for each Meteosat image in original pixel resolution. The algorithm is based on the combination of polar orbiter microwave measurements and images in the Meteosat IR channel by a so-called blending technique. The MPE is most suitable for convective precipitation. Applications and Users: Operational weather forecasting in areas with poor or no radar coverage, especially in Africa and Asia.

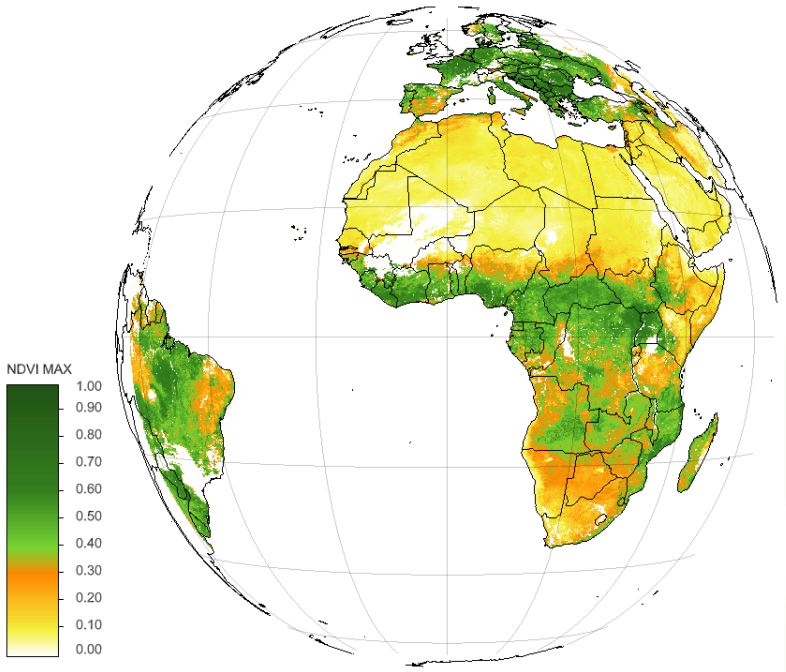
- **Normalised Difference Vegetation Index Decadal - MSG - 0 degree**



Format: HDF5
Files per day: 2
Volume per day: 11.5 MB
Naming Convention:
L-000-MSG?__-MPEF_____-NDVD[_]*

The decadal Normalised Difference Vegetation Index product is derived from the daily NDVI products. The NDVD is an aggregated product based on the daily NDVI products using the following aggregation periods: Aggregated NDVD product covering Days 1 to 10 of each month, Days 11 to 20 of each month and covering Day 21 to the last day of each month. The NDVD product estimates the land surface characteristics derived from satellite data. It is widely used to characterise the density and vigour of the given vegetation cover as well as to identify vegetation stress and drought. Applications and Users: Land surface applications. Used Input Data: Reflectances from the SEVIRI Level 1.5 image data for the VIS0.6 µm and the VIS0.8 µm channels.

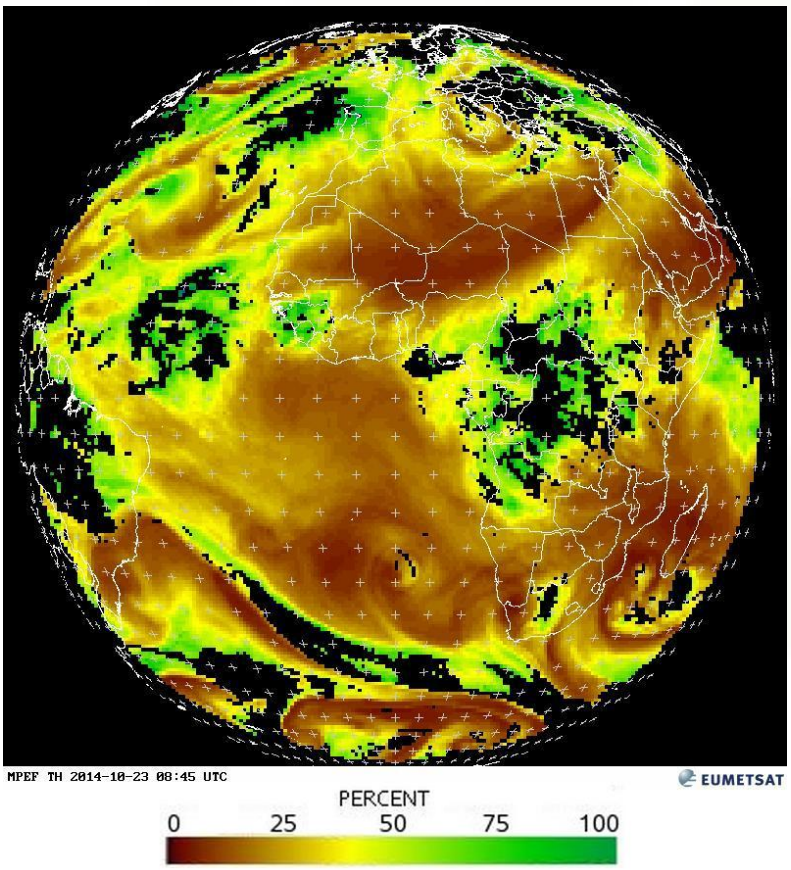
- **Normalised Difference Vegetation Index - MSG - 0 degree**



Format: HDF5
Files per day: 2
Volume per day: 9.3 MB
Naming Convention:
L-000-MSG?__-MPEF_____-NDVI[_]*

The Normalised Difference Vegetation Index product is derived from the differences in the VIS reflectances. The daily NDVI product estimates the land surface characteristics derived from satellite data. It is widely used to characterize the density and vigour of the given vegetation cover as well as to identify vegetation stress and drought. Note that no NDVI retrievals will be conducted in cloudy or night time conditions.

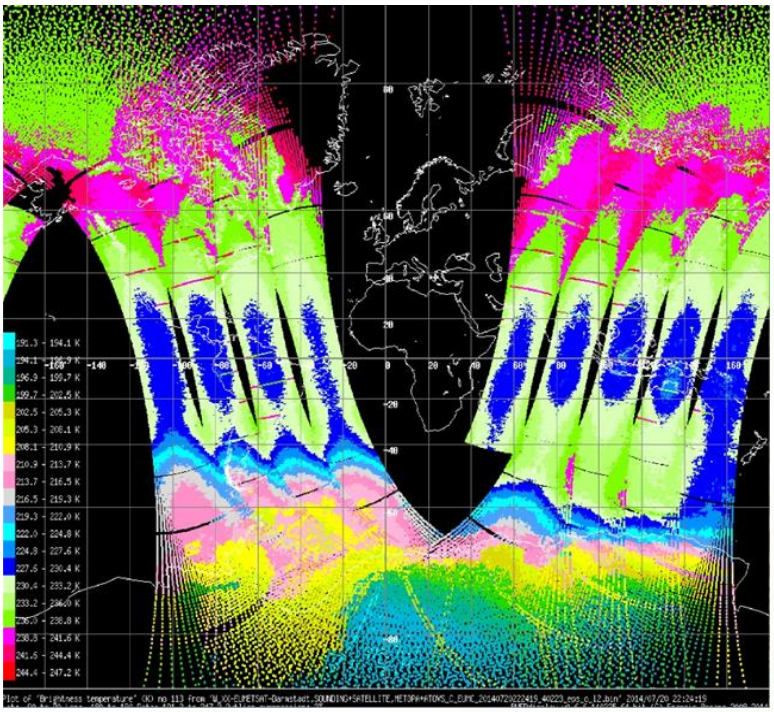
- **Tropospheric Humidity - MSG - 0 degree**



Format: BUFR
Files per day: 16
Volume per day: 3.5 MB
Naming Convention:
L-000-MSG?__-MPEF_____-TH[_]*

Relative humidity in both mid and upper layers of the troposphere, using a 16 x 16 pixel segment grid. The upper level is derived from the mean layer relative humidity between about 600 hPa and 300 hPa using the WV6.2 micron channel, while mid-tropospheric humidity represents the mean value between 850 hPa and 600 hPa using the WV7.3 micron channel

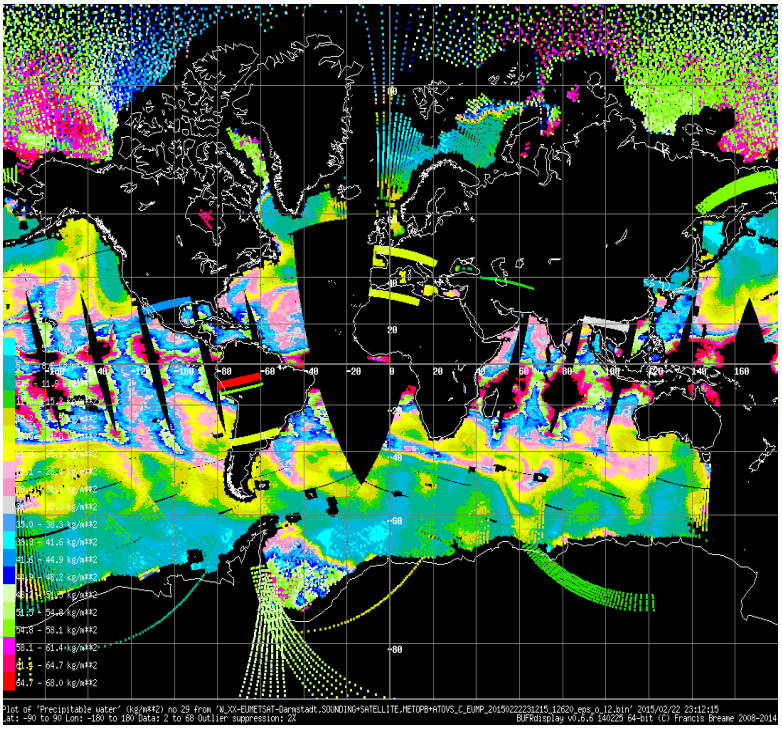
- **METOP A - Advanced TIROS Operational Sounder - ATOVS – Global** *(Temperature Profiles, Humidity Profiles, Surface Temperatures, Cloud Top Temperatures, Cloud Top Pressure, Effective Cloud Amount, Cloud Liquid Water Content and Total Columns Precipitable Water)*



Sample image: Temperature Profile

Format: BUFR
Average Size: 180 kB
Frequency: 3 minutes
Max n° of files a day: 480
Satellite: METOP A
Instruments: ATOVS / AVHRR
Naming Convention:
W_XX-EUMETSAT-Darmstadt,SOUNDING+SATELLITE,METOPA+ATOVS_C_EUMC_YYYYMMDDHHMNSS_ORBIT#_eps_o_l2

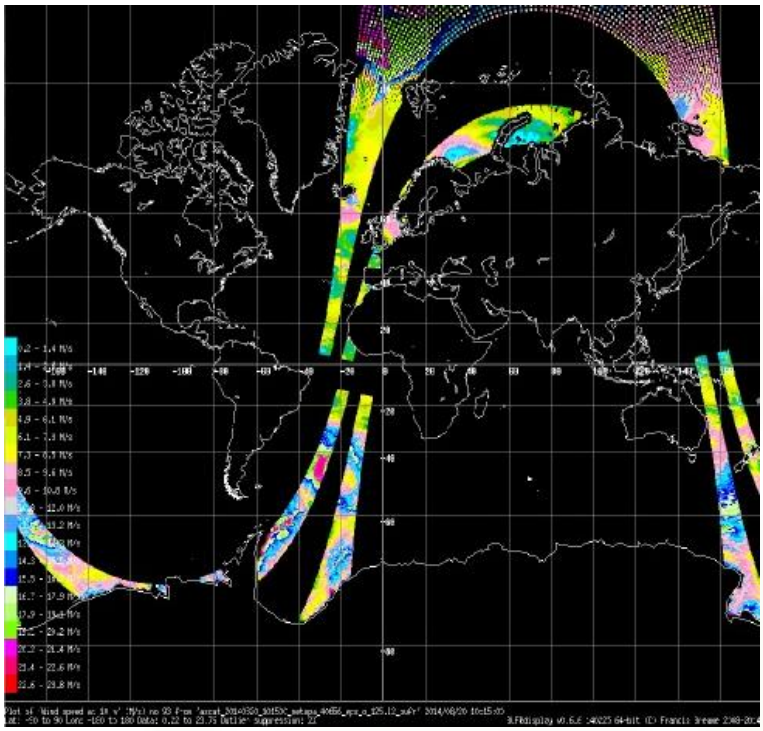
- **METOP B - Advanced TIROS Operational Sounder - ATOVS – Global** *(Temperature Profiles, Humidity Profiles, Surface Temperatures, Cloud Top Temperatures, Cloud Top Pressure, Effective Cloud Amount, Cloud Liquid Water Content and Total Columns Precipitable Water)*



Sample image: Precipitable Water

Format: BUFR
Average Size: 180 kB
Frequency: 3 minutes
Max n° of files a day: 480
Satellite: METOP B
Instruments: ATOVS / AVHRR
Naming Convention:
W_XX-EUMETSAT-Darmstadt,SOUNDING+SATELLITE,METOPB+ATOVS_C_EUMC_YYYYMMDDHHMNSS_ORBIT#_eps_o_l2

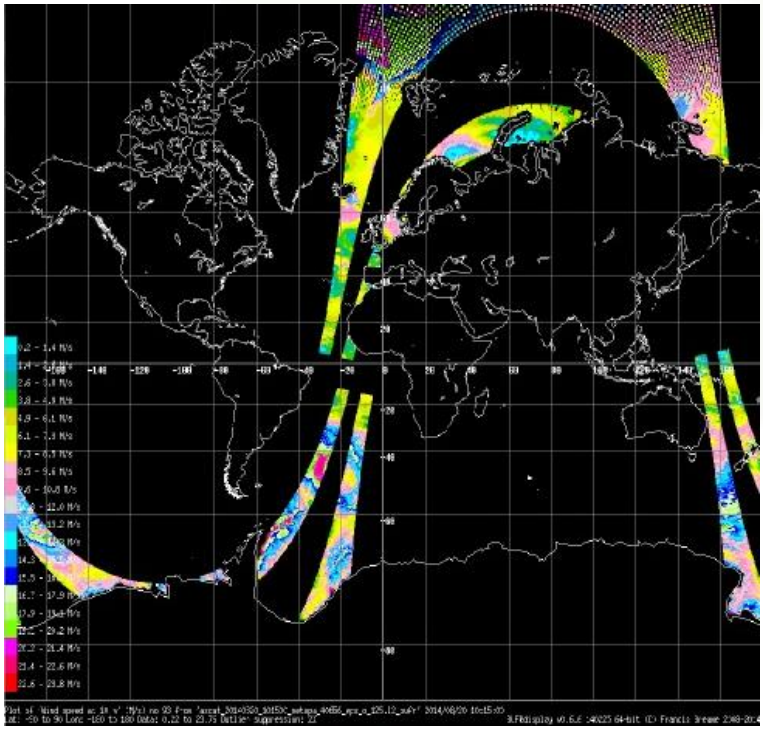
- **METOP A / B – ASCAT Coastal Winds at 12.5 km Swath Grid – Global** (*Equivalent neutral 10m winds over the global oceans, with specific sampling to provide as many observations as possible near the coasts)*



Sample image: Precipitable Water

Format: BUFR
Average Size: 400 kB
Frequency: 3 minutes per satellite
Max n° of files a day: 480 per satellite
Satellite: METOP A / B
Instrument: ASCAT
Naming Conventions:
ascat_YYYYMMDD_HHMMSS_metopa_ orbit#_ eps_o_coa_ovw.l2_bufr
ascat_YYYYMMDD_HHMMSS_metopb_ orbit#_ eps_o_coa_ovw.l2_bufr

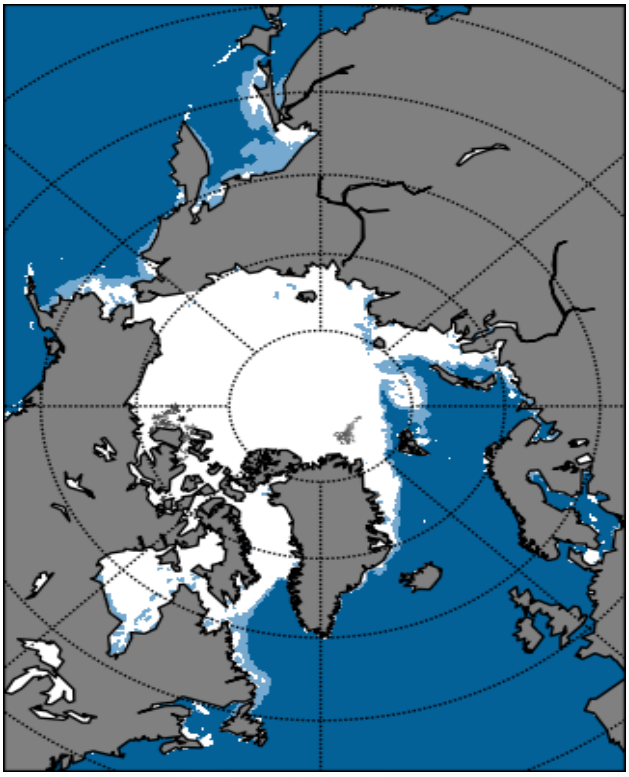
- **METOP A / B – ASCAT Winds and Soil Moisture at 25 km Swath Grid – Global** *(Surface Soil Moisture, Mean Surface Soil Moisture, Rain Fall Detection, Snow Cover, Frozen Land Fraction, Inundation and Wetland Fraction, Topographic Complexity, Model Wind Speed at 10 m, Model Wind Direction at 10 m, Ice Probability, Ice age ("a" parameter), Wind Speed at 10 m and Wind direction at 10 m)*



Sample image: Precipitable Water

Format: BUFR
Average Sizes:
385 kB (12.5 km) / 95 kB (25 km)
Frequency: 3 minutes per satellite
Max n° of files a day: 480 per per satellite
Satellites: METOP A / B
Instrument: ASCAT
Naming Conventions:
ascat_YYYYMMDD_HHMMSS_metopa_orbit#_ eps_0_250.l2_bufr
ascat_YYYYMMDD_HHMMSS_metopb_orbit#_ eps_0_250.l2_bufr

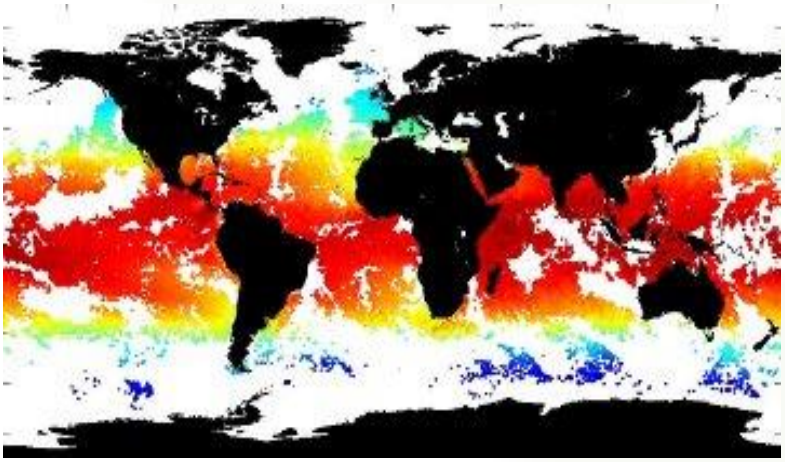
- **METOP - Medium Resolution Sea Ice Drift – North Hemisphere**



Format: NetCDF
Files per day: 2
Volume per day: 1.2 MB
Naming Convention:
S-OSI_-DMI_-MTOP-NH_MRSIDRIFT-<date>.nc.gz

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.

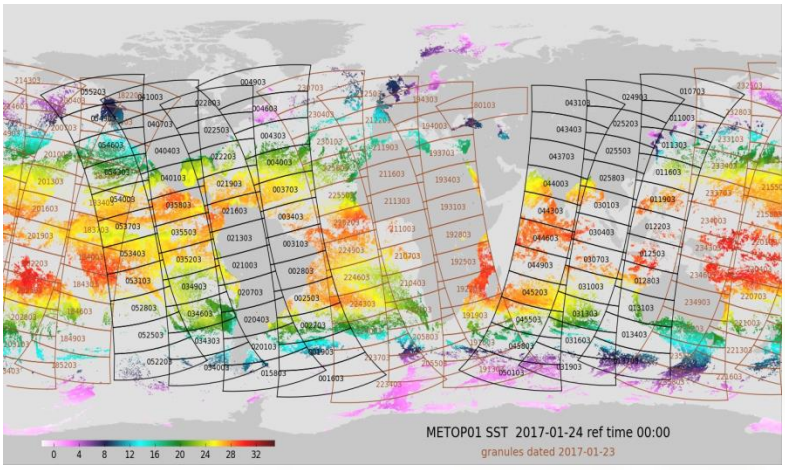
- **METOP - IASI Sea Surface Temperature**



Format: NetCDF
Files per day: 480
Volume per day: 130 kB
Naming Convention:
S-OSI_-FRA_-MTOP-IASISSTFIELD-<date>.nc

This is a full resolution skin SST product based on Metop IASI data, in satellite projection from a resolution of 12km at nadir to 40km. The product format is compliant with the Data Specification (GDS) version 2 from the Group for High Resolution Sea Surface Temperatures (GHRSST).

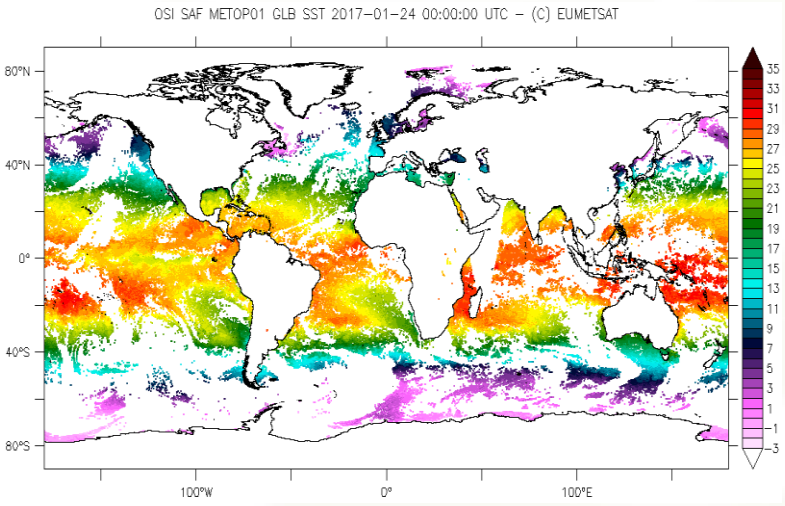
- **METOP - Full Resolution Sea Surface Temperature Metagranules**



Format: NetCDF
Files per day: 480
Volume per day: 3.8 MB
Naming Convention:
S-OSI_-FRA_-MTOP-MGRSST_FIELD-<date>.nc

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).

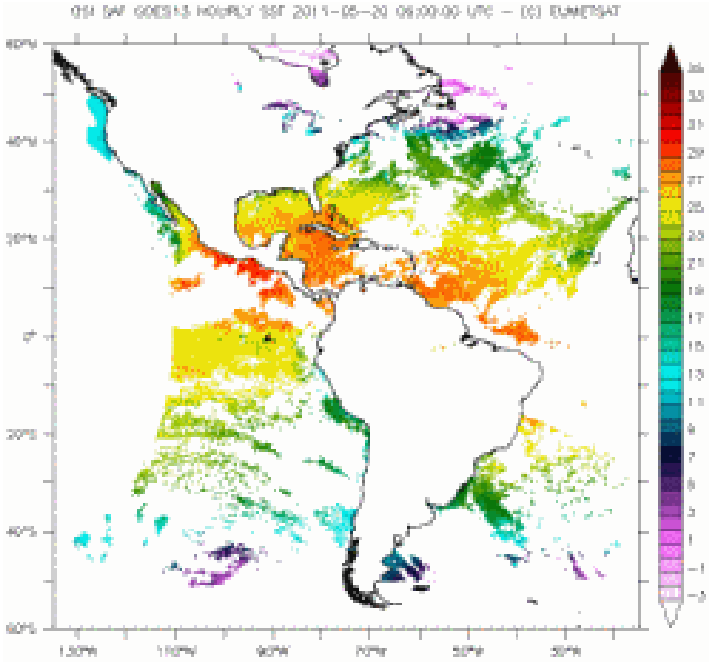
- **METOP - Global Sea Surface Temperature**



Format: NetCDF and GRIB2
Files per day: 2 per format
Volume per day: 40 MB (NetCDF) and 8.5 MB (GRIB2)
Naming Conventions:
S-OSI_-FRA_-MTOP-MGRSST_FIELD-<date>.nc
S-OSI_-FRA_-MTOP-GLBSST_FIELD-<date>.grb.gz

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).

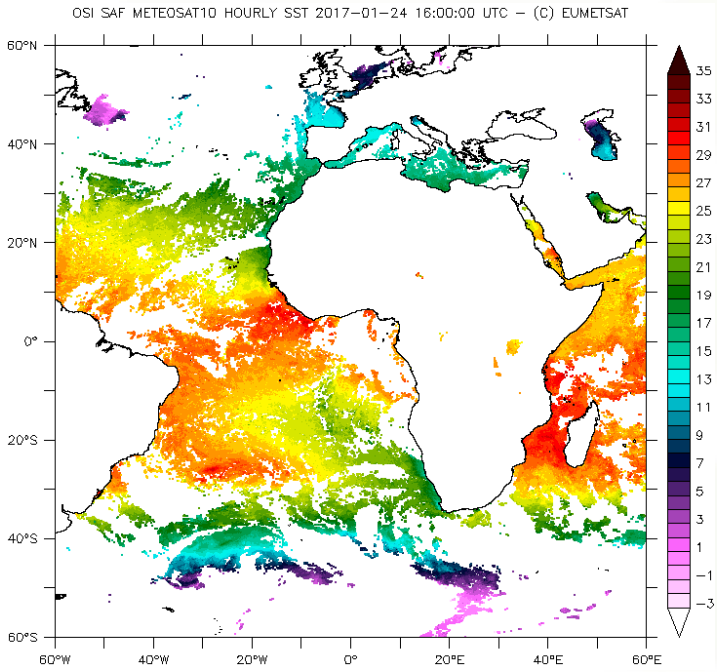
- **GOES - Hourly Sea Surface Temperature**



Format: NetCDF and GRIB
Files per day: 24 per format
Volume per day: 11 MB (NetCDF) and 1.7 MB (GRIB)
Naming Conventions:
S-OSI_-FRA_-GOES-H__SST_FIELD-<date>.nc
S-OSI_-FRA_-GOES-H__SST_FIELD-<date>.grb.gz

Hourly sub-skin Sea Surface Temperature product derived from GOES-13 at 75°E longitude, covering 60S-60N and 135W-15W 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).

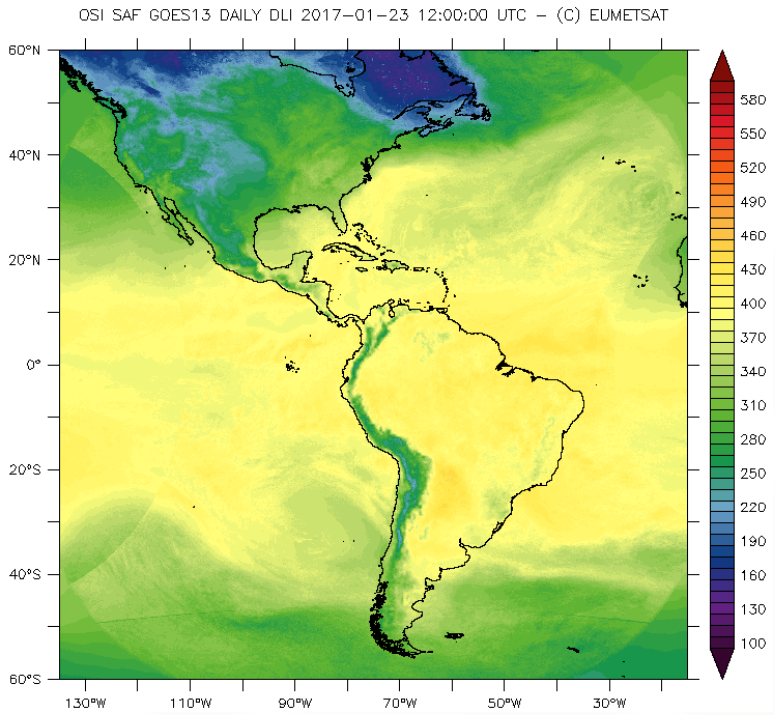
- **METEOSAT - Hourly Sea Surface Temperature**



Format: NetCDF and GRIB
Files per day: 24 per format
Volume per day: 11 MB (NetCDF) and 11 MB (GRIB)
Naming Conventions:
S-OSI_-FRA_-MSG_-H__SST_FIELD-<date>.nc
S-OSI_-FRA_-MSG_-H__SST_FIELD-<date>.grb.gz

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).

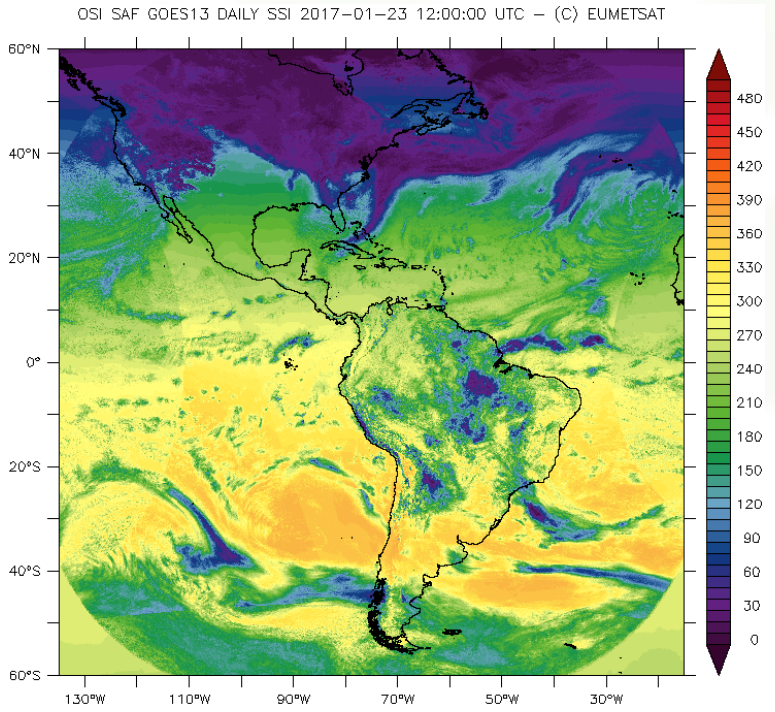
- **GOES - Daily Downward Longwave Irradiance**



Format: GRIB
Files per day: 24
Volume per day: 6 MB
Naming Conventions:
S-OSI_-FRA_-GOES-H__DLI_FIELD-<date>.grb.gz

Estimation of the Downward Longwave Irradiance reaching the Earth surface, derived from the geostationary satellite GOES-E, produced by remapping over a 0.05° regular grid and expressed in W/m2. Algorithm is a bulk parameterization that uses NWP model outputs to calculate a clear sky Downward Longwave Irradiance (DLI), corrected according to satellite derived cloud information. An essential point is the calculation of products interpolated at rounded UT hours. A radiative flux calculated on a satellite image is not homogeneous in time (the pixel time varies from north to south, of about 24 minutes for GOES-E data).

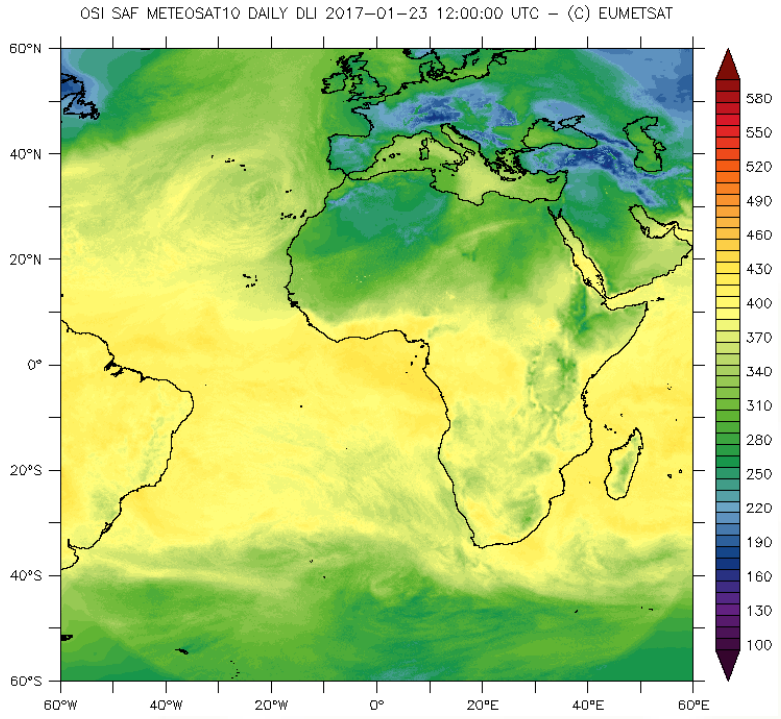
- **GOES - Daily Shortwave Solar Irradiance**



Format: GRIB
Files per day: 24
Volume per day: 2 MB
Naming Conventions:
S-OSI_-FRA_-GOES-H__SSI_FIELD-<date>.grb.gz

Estimation of the solar irradiance reaching the Earth surface, derived from the geostationary satellite GOES-E, produced by remapping over a 0.05° regular grid and expressed in W/m2. Algorithm is a physical parameterization applied separately to every pixel of a satellite image to derive an instantaneous field of the Solar Surface Irradiance. An essential point is the calculation of products interpolated at rounded UT hours. A radiative flux calculated on a satellite image is not homogeneous in time (the pixel time varies from north to south, of about 24 minutes for GOES-E data).

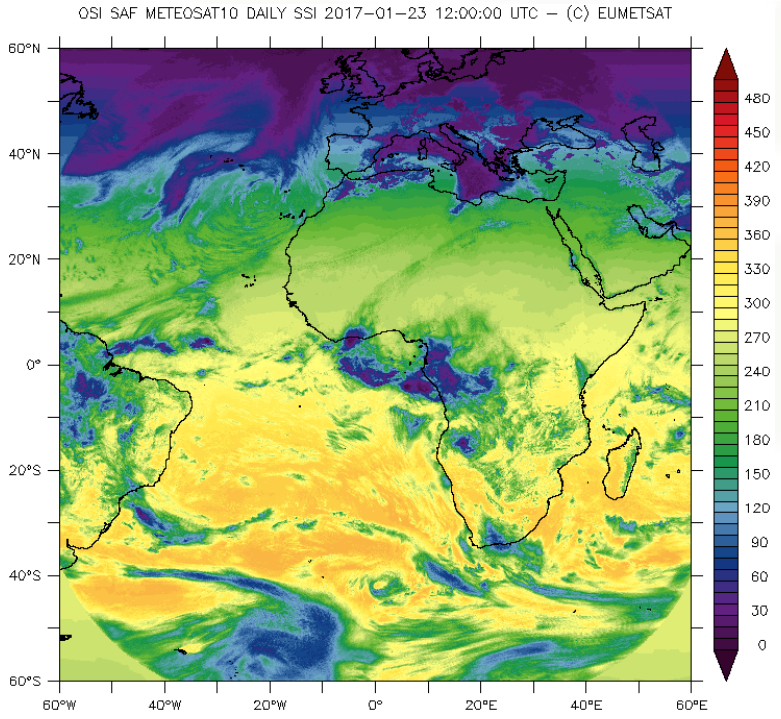
- **METEOSAT - Daily Downward Longwave Irradiance**



Format: GRIB
Files per day: 24
Volume per day: 7 MB
Naming Conventions:
S-OSI_-FRA_-MSG_-H__DLI_FIELD-<date>.grb.gz

Estimation of the Downward Longwave Irradiance reaching the Earth surface, derived from the geostationary satellite Meteosat, derived at present from the 0.6µm visible channel of SEVIRI, produced by remapping over a 0.05° regular grid and expressed in W/m2. Algorithm is a bulk parameterization that uses NWP model outputs to calculate a clear sky Downward Longwave Irradiance (DLI), corrected according to satellite derived cloud information. An essential point is the calculation of products interpolated at rounded UT hours. A radiative flux calculated on a satellite image is not homogeneous in time (the pixel time varies from north to south, of about 12 minutes for Meteosat data).

- **METEOSAT - Daily Shortwave Solar Irradiance**



Format: GRIB
Files per day: 24
Volume per day: 5 MB
Naming Conventions:
S-OSI_-FRA_-MSG_-H__SSI_FIELD-<date>.grb.gz

Estimation of the solar irradiance reaching the Earth surface, derived from the geostationary satellite Meteosat, derived at present from the 0.6µm visible channel of SEVIRI, produced by remapping over a 0.05° regular grid and expressed in W/m2. Algorithm is a physical parameterization applied separately to every pixel of a satellite image to derive an instantaneous field of the Solar Surface Irradiance. An essential point is the calculation of products interpolated at rounded UT hours. A radiative flux calculated on a satellite image is not homogeneous in time (the pixel time varies from north to south, of about 12 minutes for Meteosat data).

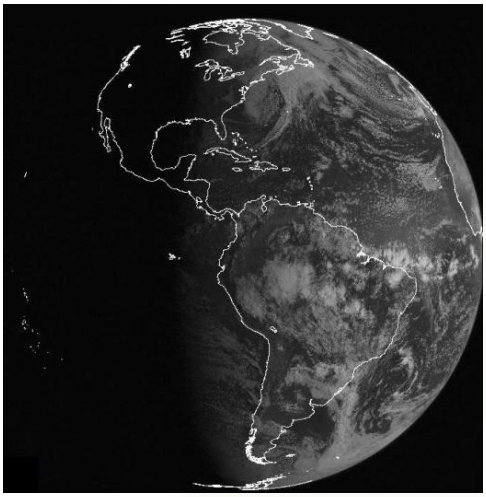
PROVIDER: RANET

(Radio and Internet for the Communication of Hydro-Meteorological and Climate Information for Development - USA)

- **GOES-13 - Infrared Channel - Full Disk - Americas**

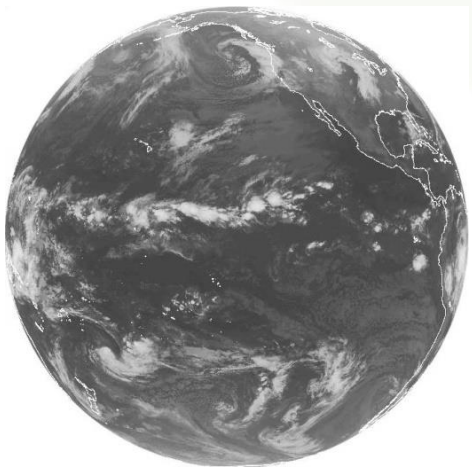
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs2

- **GOES-13 - Visible Channel - Full Disk - Americas**



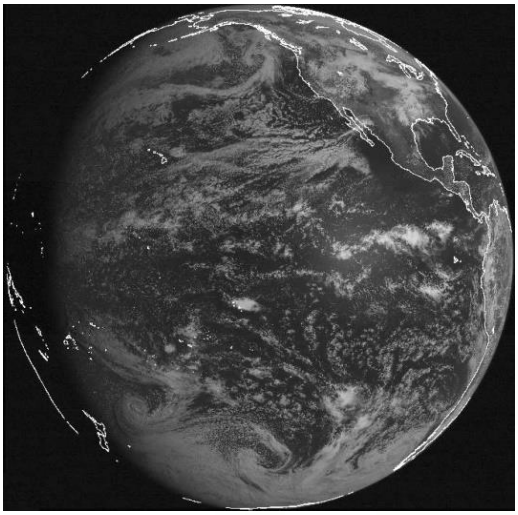
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs3

- **GOES-15 - Infrared Channel - Full Disk - Pacific + North America + Western South America**



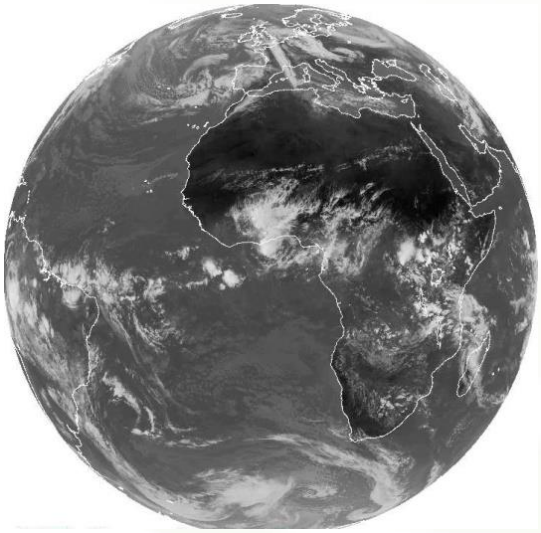
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs4

- **GOES-15 - Visible Channel - Full Disk - Pacific Ocean**



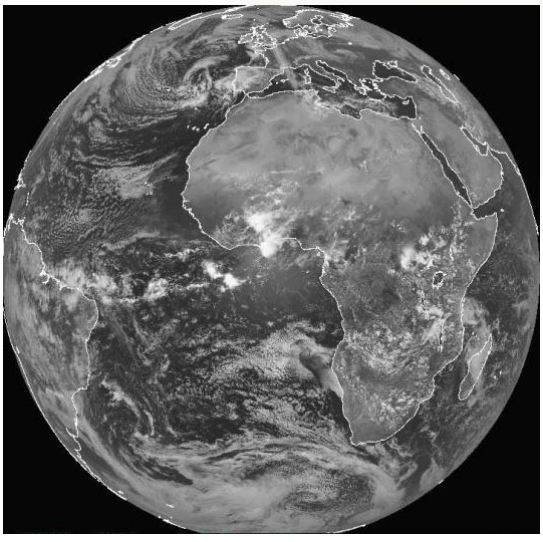
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs5

- **METEOSAT-10 - Infrared Channel - Full Disk - South America + Africa + Europe**



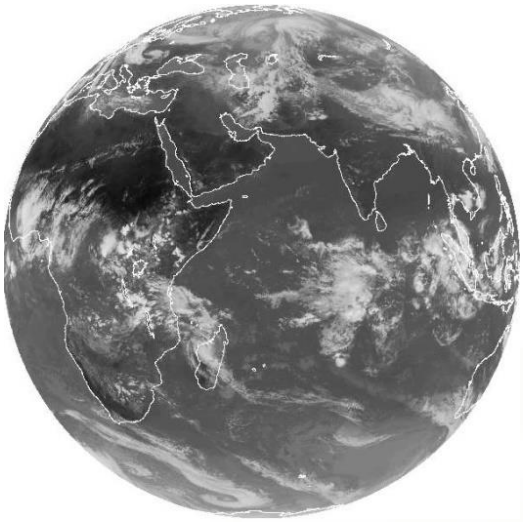
Format: JPEG
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs6

- **METEOSAT-10 - Visible Channel - Full Disk - South America + Africa + Europe**



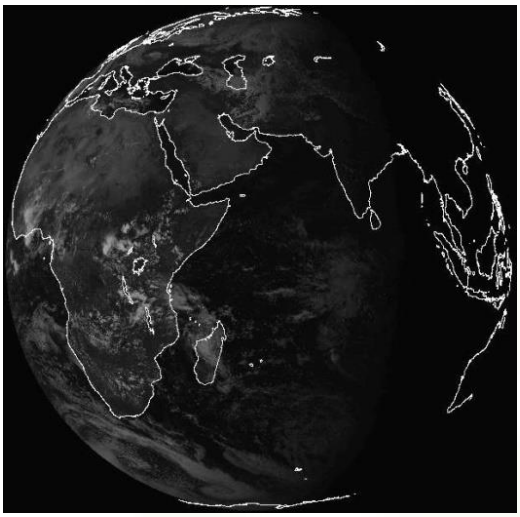
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs7

- **METEOSAT-7 - Infrared Channel - Full Disk - Africa + Asia**



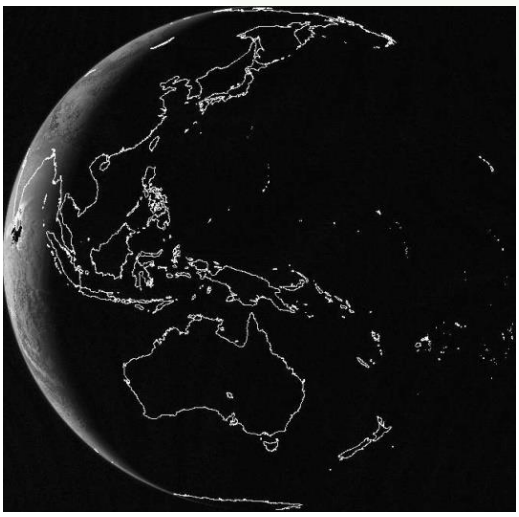
Format: JPEG
Average Size: 55 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs8

- **METEOSAT-7 - Visible Channel - Full Disk - Africa + Asia**



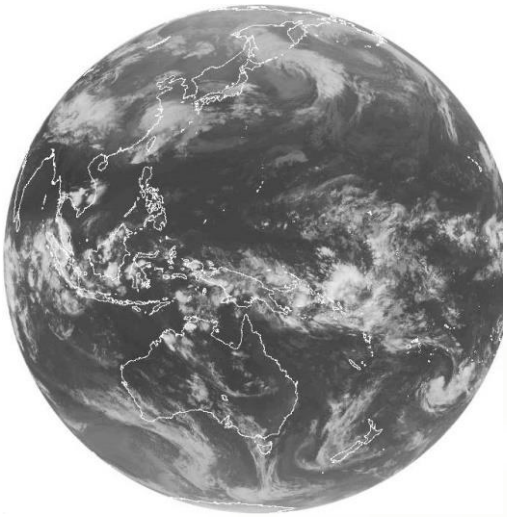
Format: JPEG
Average Size: 45 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs9

- **MTSAT-2 - Visible Channel - Full Disk - Asia + Oceania**



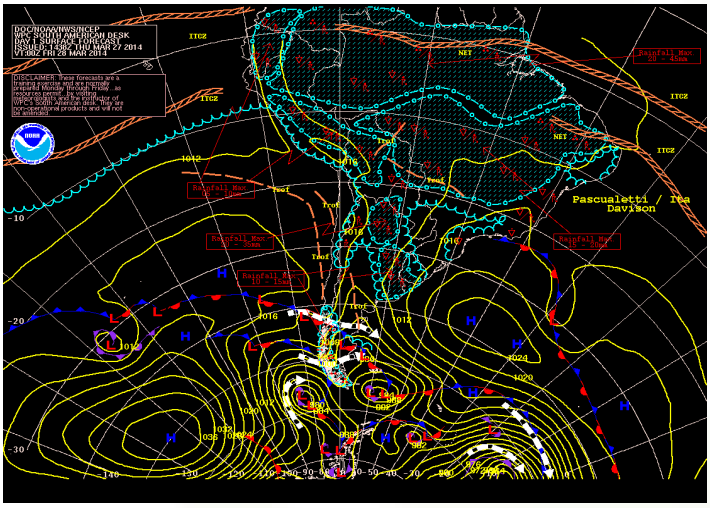
Format: JPEG
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs10

- **MTSAT-2 - Infrared Channel - Full Disk - Asia + Oceania**



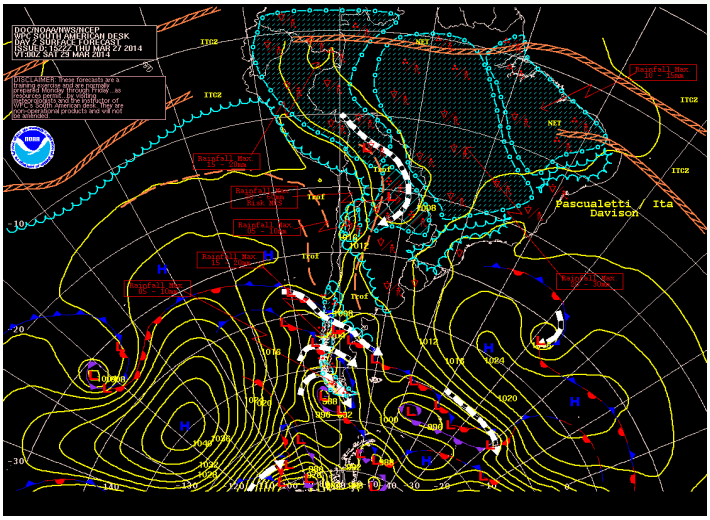
Format: JPEG
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs11

- **Surface Forecast - Day 1 - South America**



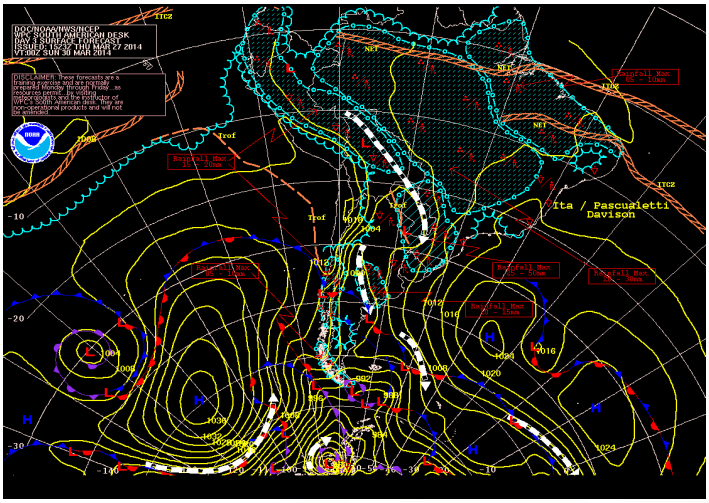
Format: GIF
Average Size: 70 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs12

- **Surface Forecast - Day 2 - South America**



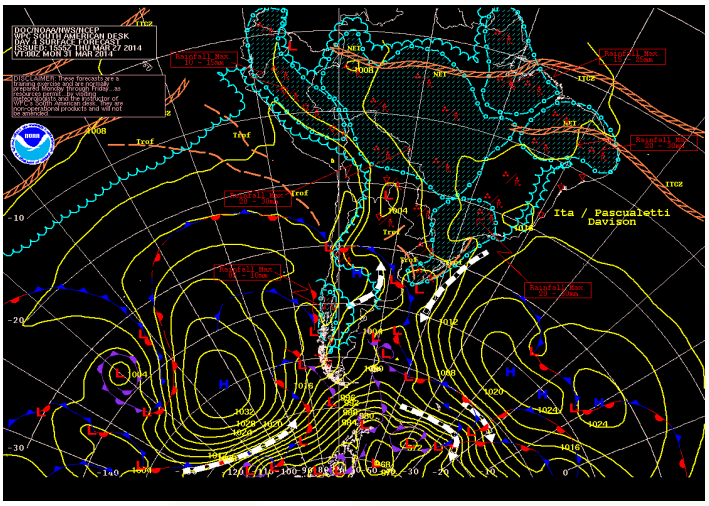
Format: GIF
Average Size: 70 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs13

- **Surface Forecast - Day 3 - South America**



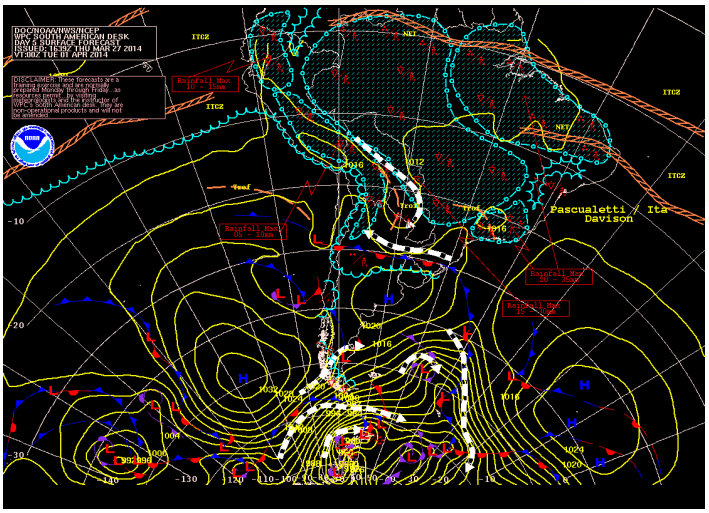
Format: GIF
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs14

- **Surface Forecast - Day 4 - South America**



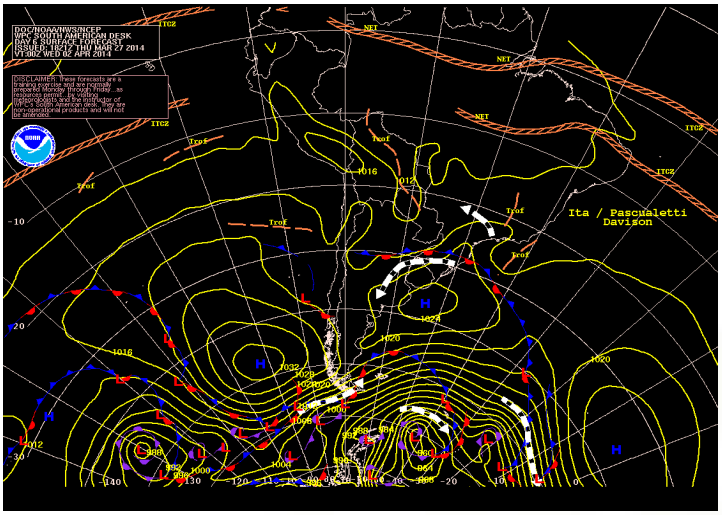
Format: GIF
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs15

- **Surface Forecast - Day 5 - South America**



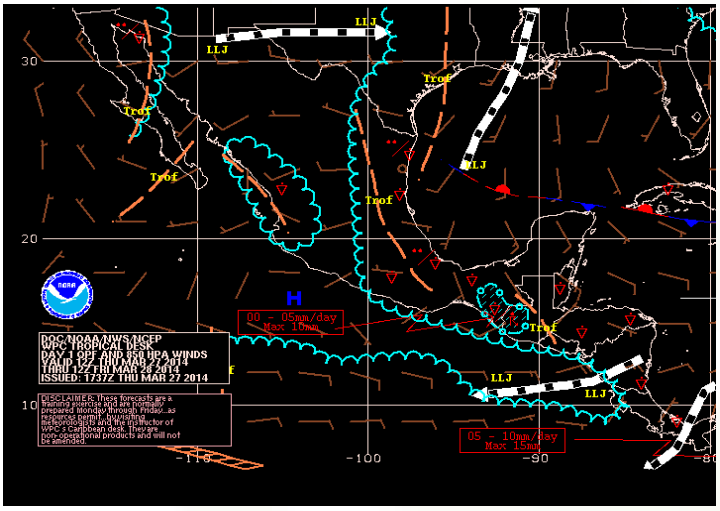
Format: GIF
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs16

- **Surface Forecast - Day 6 - South America**



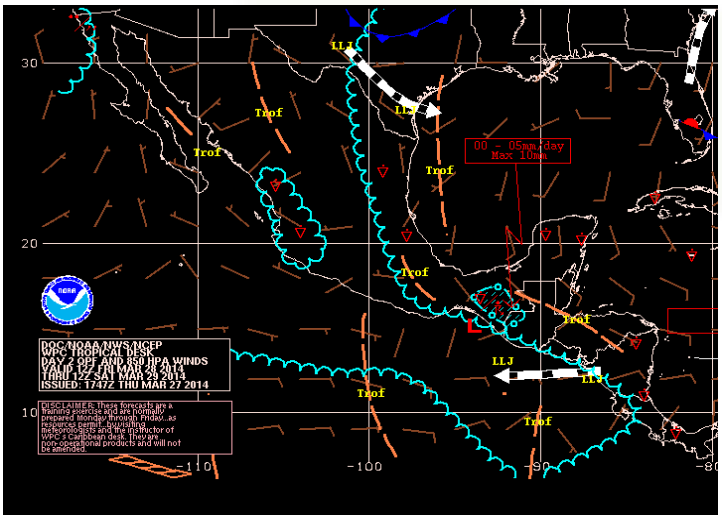
Format: GIF
Average Size: 55 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs17

- **Quantitative Precipitation Forecast and Winds – Day 1 - West Caribbean**



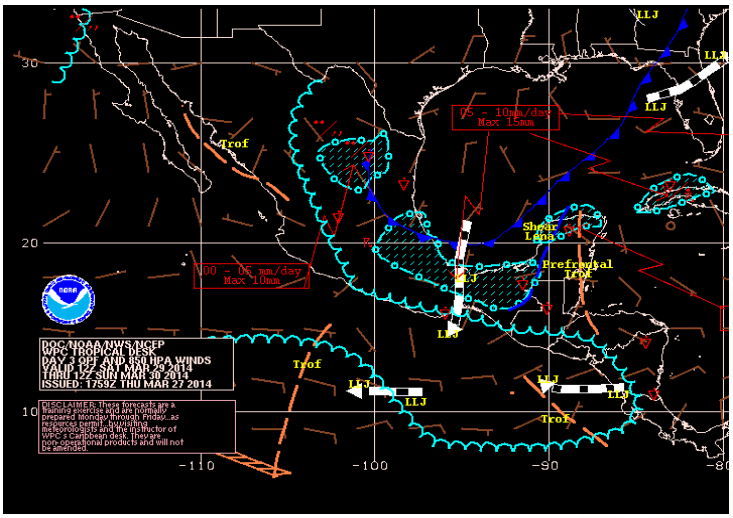
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs18

- **Quantitative Precipitation Forecast and Winds – Day 2 - West Caribbean**



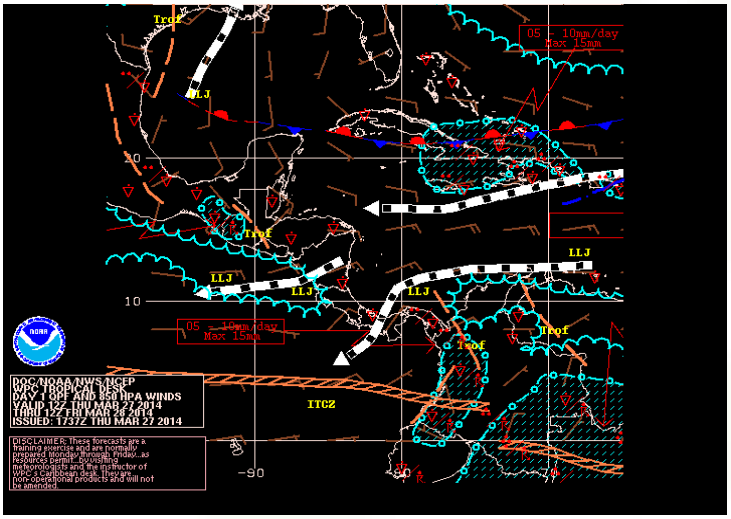
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs19

- **Quantitative Precipitation Forecast and Winds – Day 3 - West Caribbean**



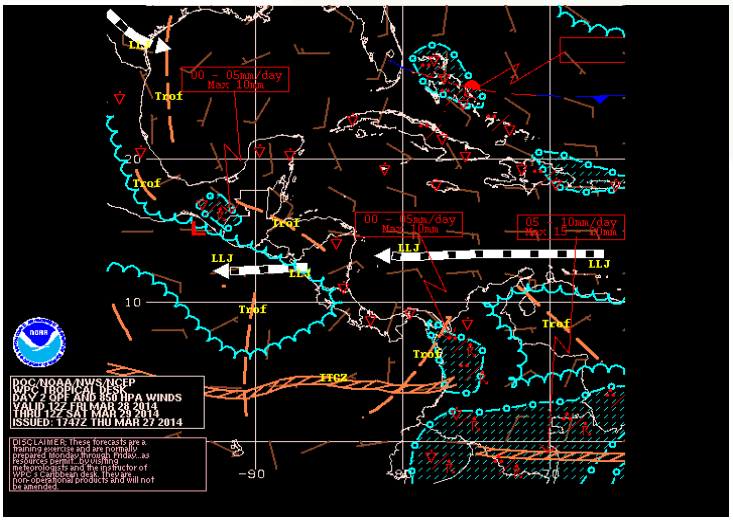
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs20

- **Quantitative Precipitation Forecast and Winds – Day 1 - Central Caribbean**



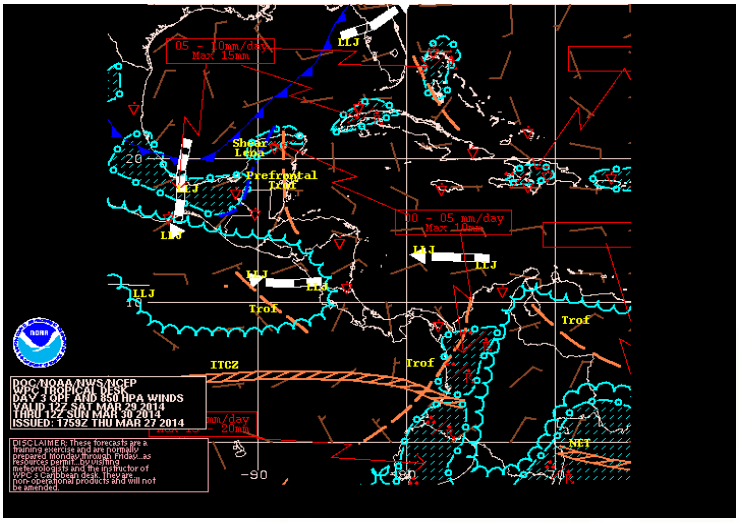
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs21

- **Quantitative Precipitation Forecast and Winds – Day 2 - Central Caribbean**



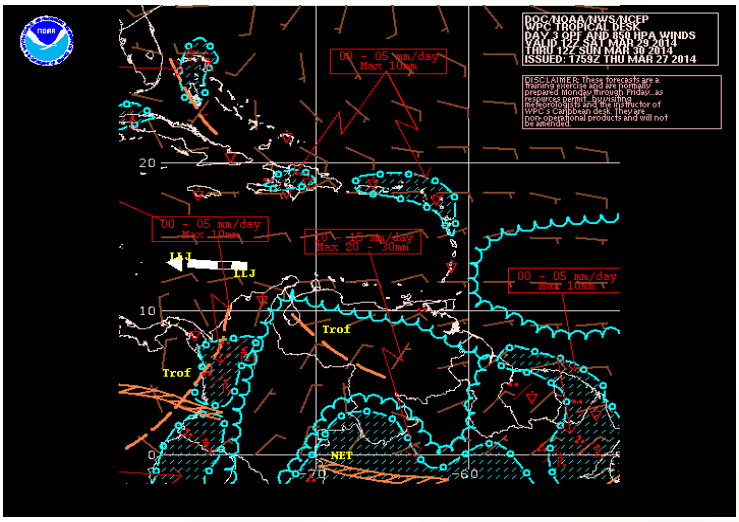
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs22

- **Quantitative Precipitation Forecast and Winds – Day 3 - Central Caribbean**



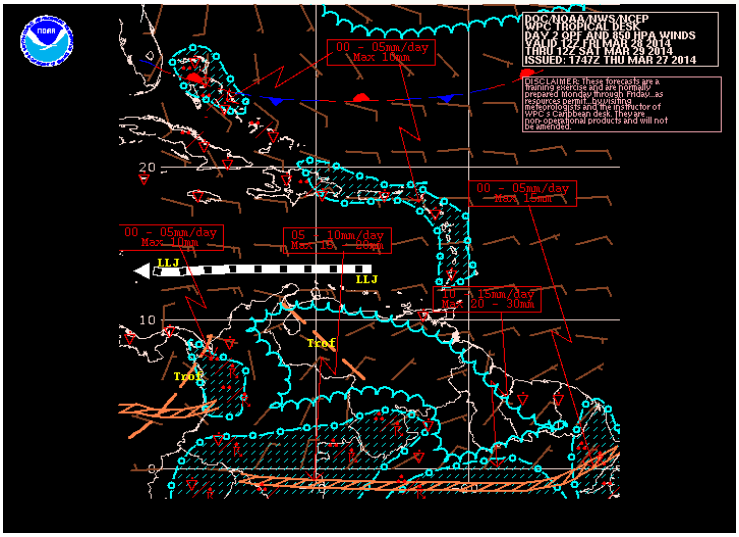
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs23

- **Quantitative Precipitation Forecast and Winds – Day 1 - East Caribbean**



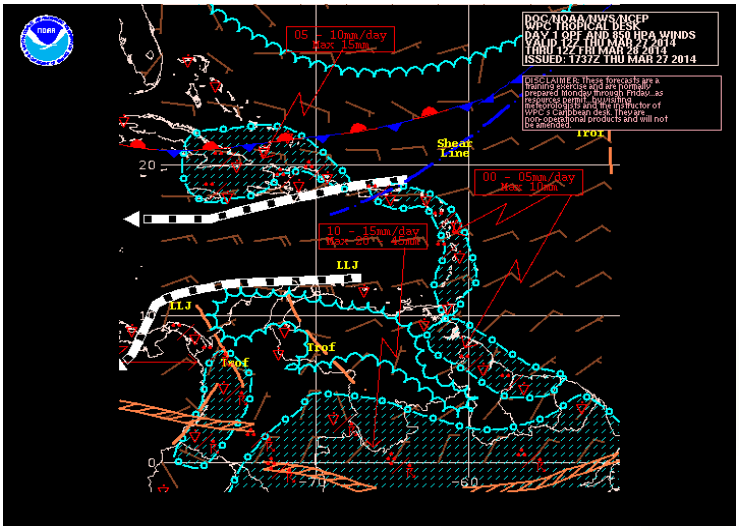
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs24

- **Quantitative Precipitation Forecast and Winds – Day 2 - East Caribbean**



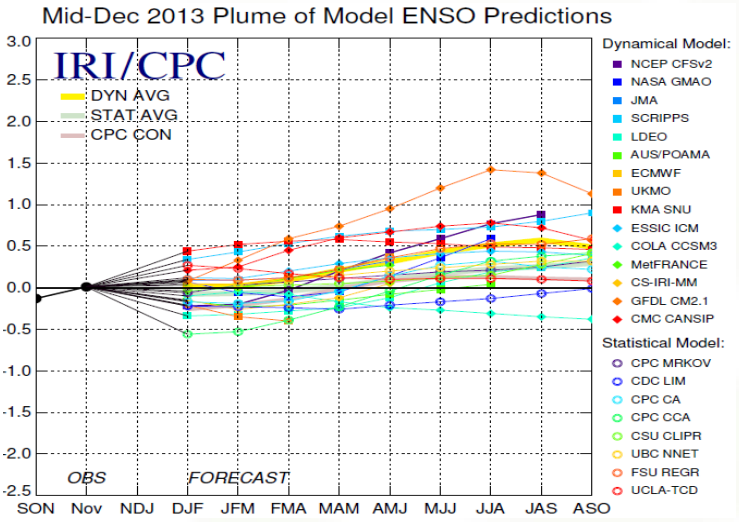
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs25

- **Quantitative Precipitation Forecast and Winds – Day 3 - East Caribbean**



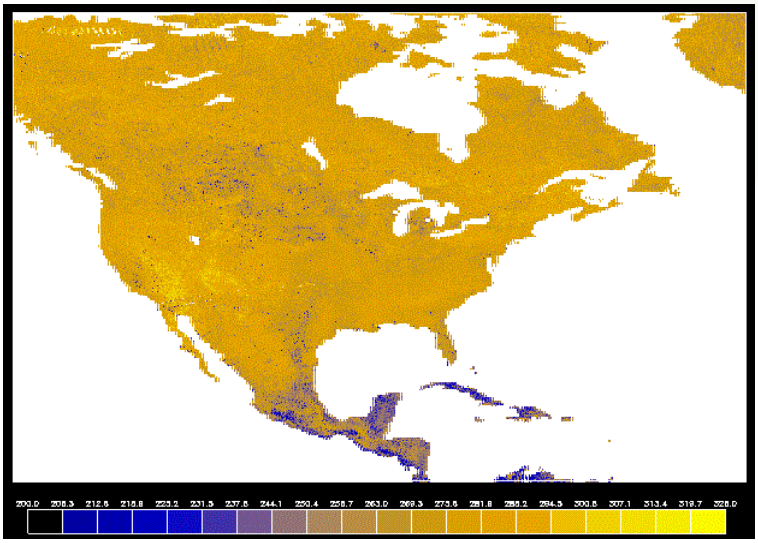
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs26

- **El Niño, La Niña and the Southern Oscillation Monthly Report – Region 5S 5N 120W 170W**



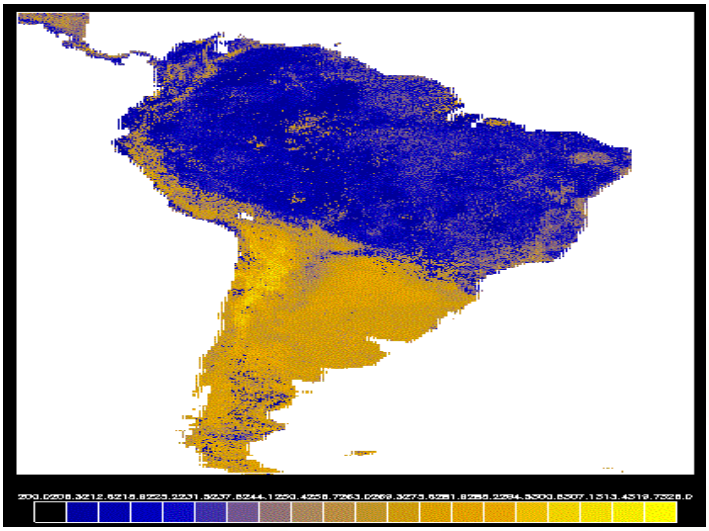
Format: PDF
Average Size: 165 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs27

- **Precipitable Water Index - PWI - North America**



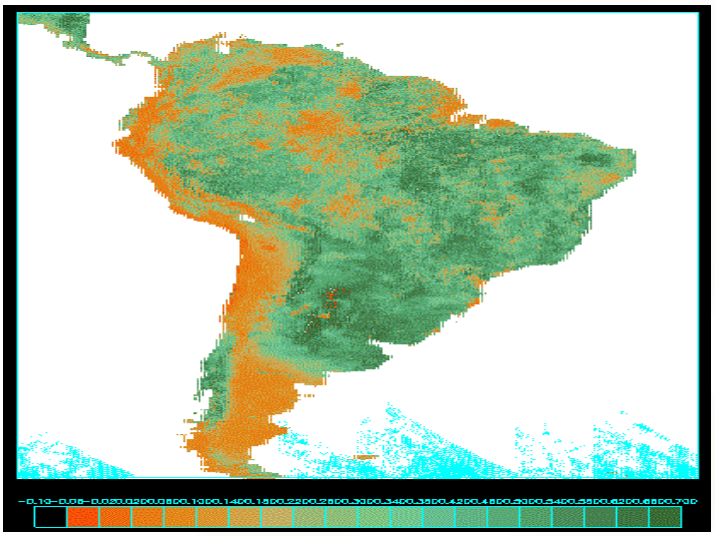
Format: GIF
Average Size: 55 kB
Frequency: Daily
Naming Convention: rbs28

- **Precipitable Water Index - PWI - South America**



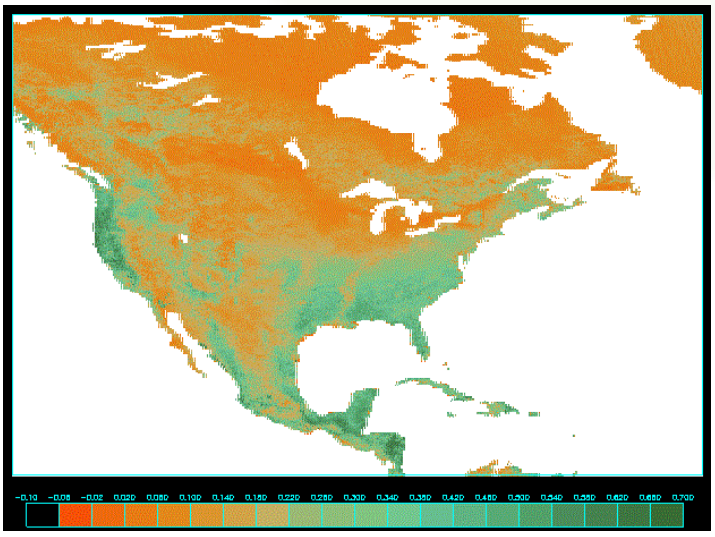
Format: GIF
Average Size: 35 kB
Frequency: Daily
Naming Convention: rbs29

- **Normalized Difference Vegetation Index - NDVI - South America**



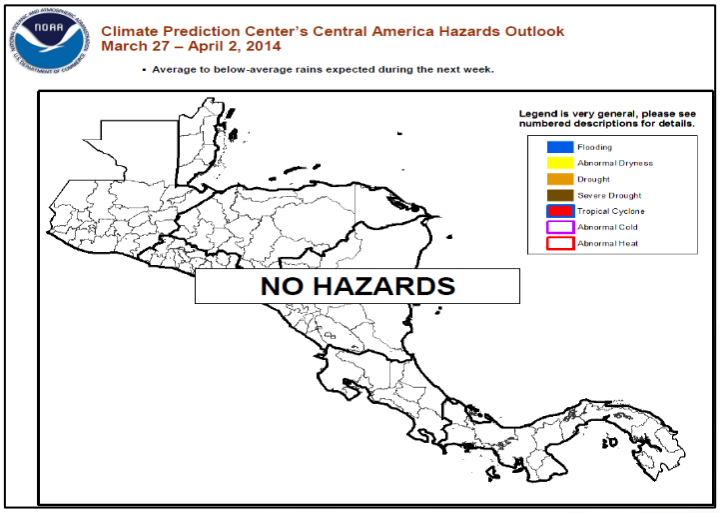
Format: GIF
Average Size: 85 kB
Frequency: Daily
Naming Convention: rbs30

- **Normalized Difference Vegetation Index - NDVI - North America**



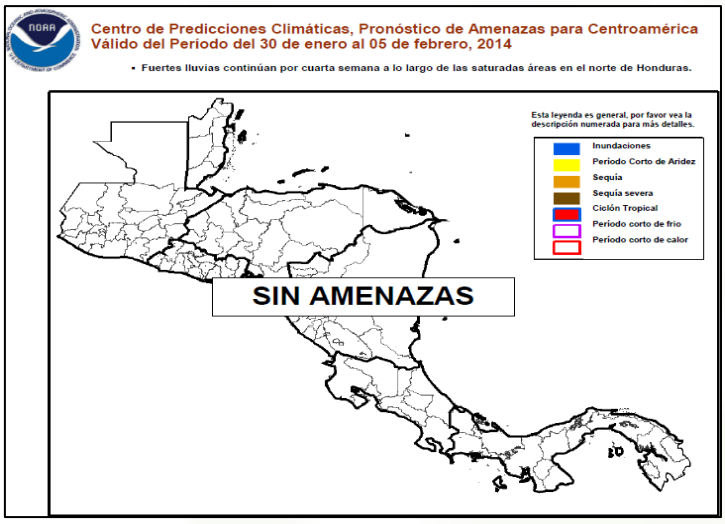
Format: GIF
Average Size: 140 kB
Frequency: Daily
Naming Convention: rbs31

- **Hazards Outlook - Central America - English**



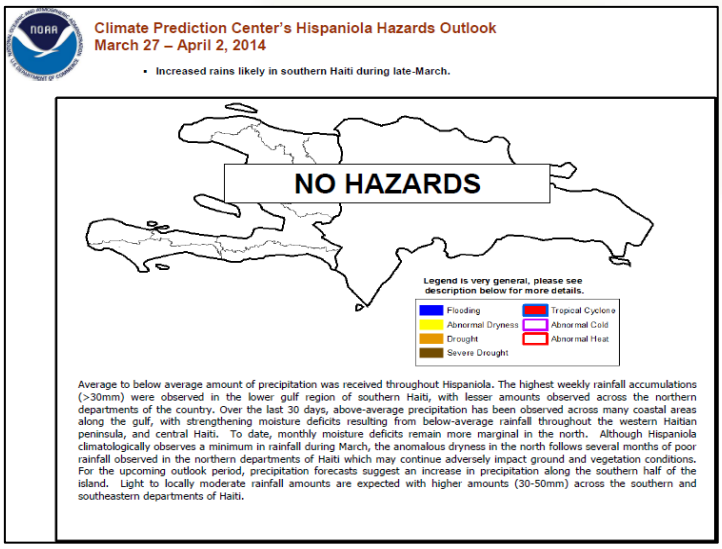
Format: PDF
Average Size: 320 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs32

- **Hazards Outlook - Central America - Spanish**



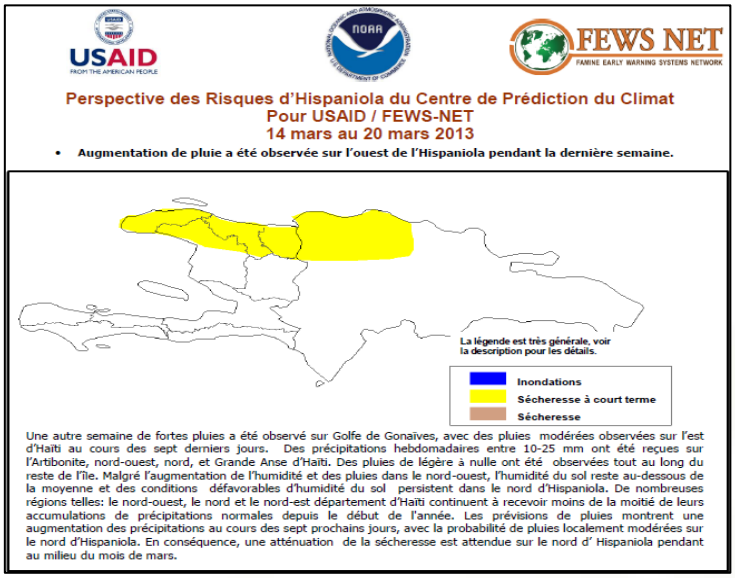
Format: PDF
Average Size: 195 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs33

- **Hazards Outlook - Hispaniola Island - English**



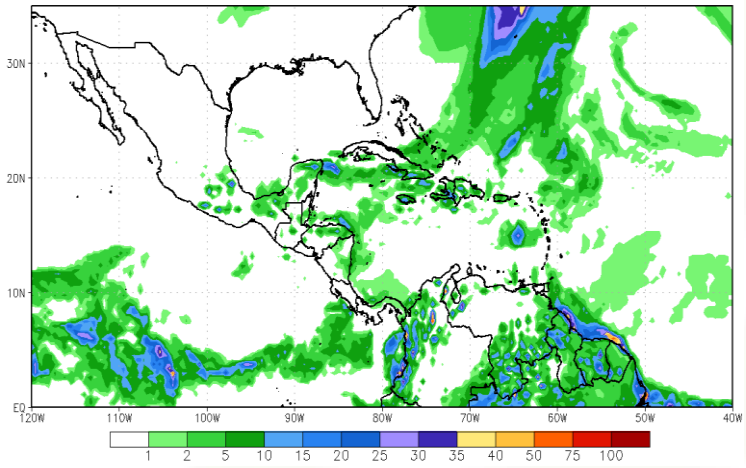
Format: PDF
Average Size: 175 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs34

- **Hazards Outlook - Hispaniola Island - French**



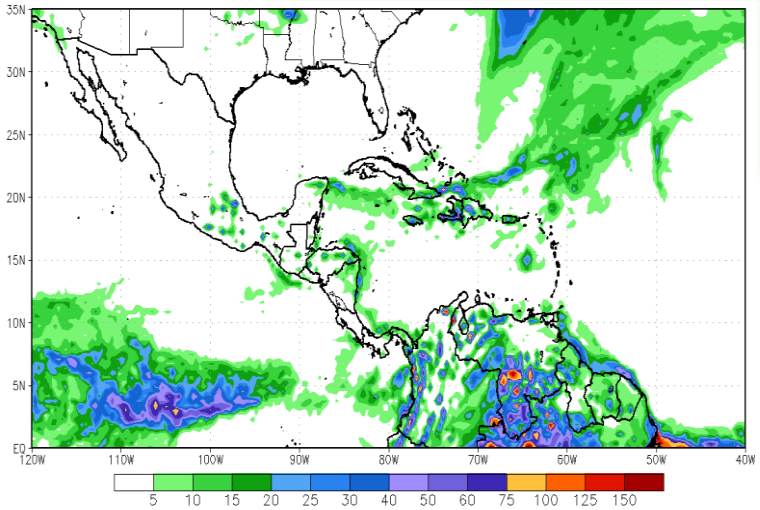
Format: PDF
Average Size: 370 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs35

- **Accumulated Precipitation Forecast - 24hs - Central America**



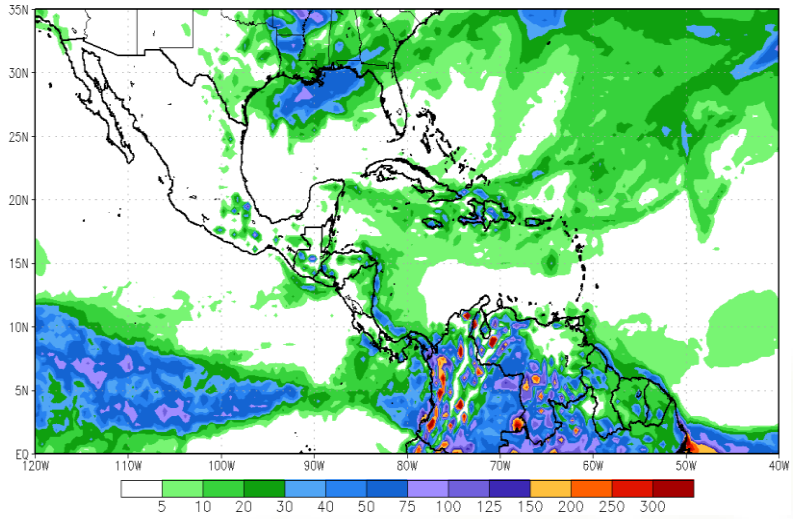
Format: GIF
Average Size: 70 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs36

- **Accumulated Precipitation Forecast - 3 Days - Central America**



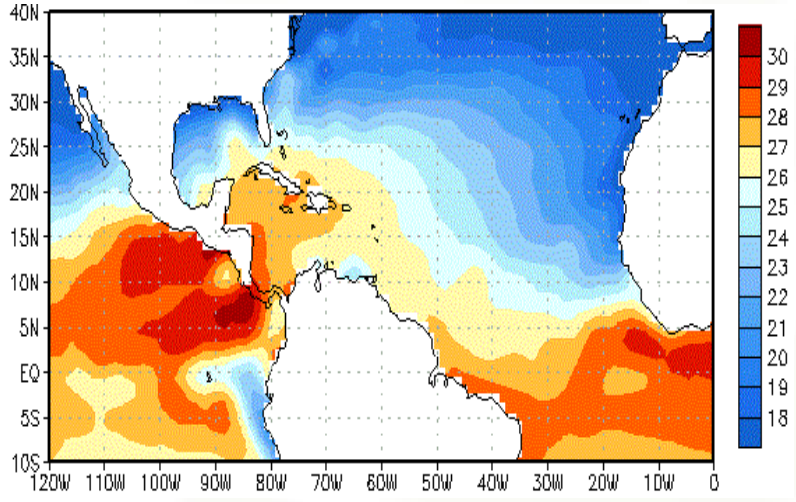
Format: GIF
Average Size: 80 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs37

- **Accumulated Precipitation Forecast - 1 Week - Central America**



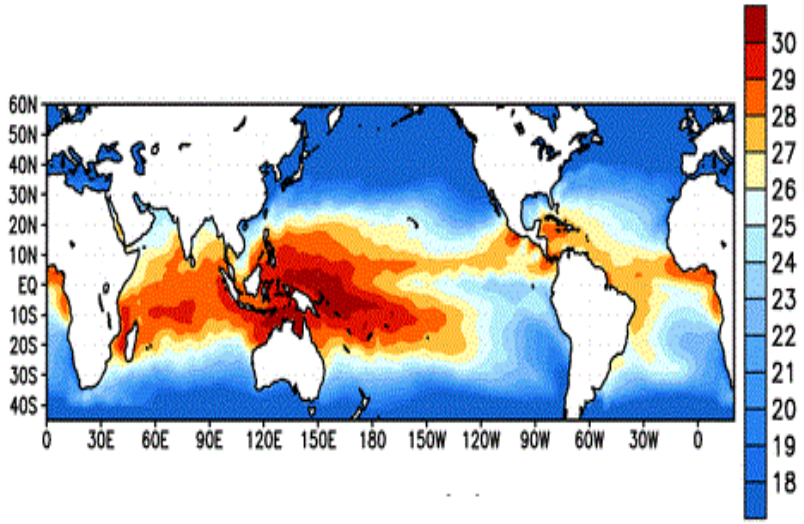
Format: GIF
Average Size: 80 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs38

- **Sea Surface Temperature - Region 40N 10S 120W 0**



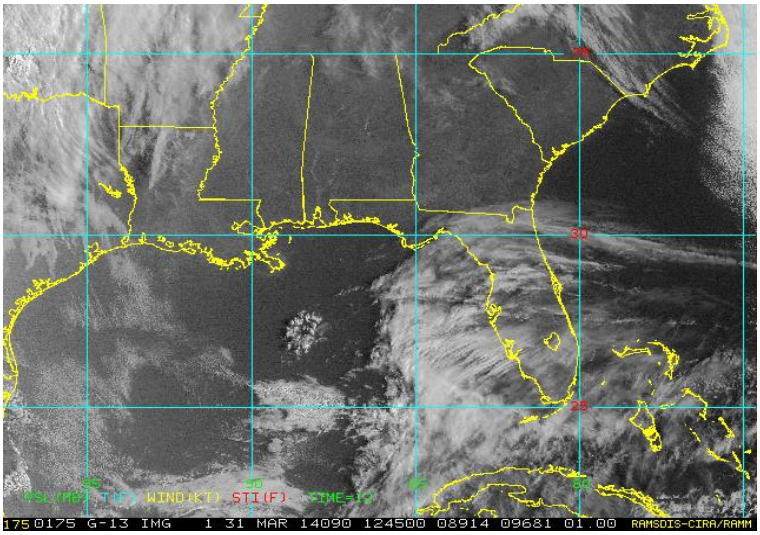
Format: GIF
Average Size: 110 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs39

- **Sea Surface Temperature - Global**



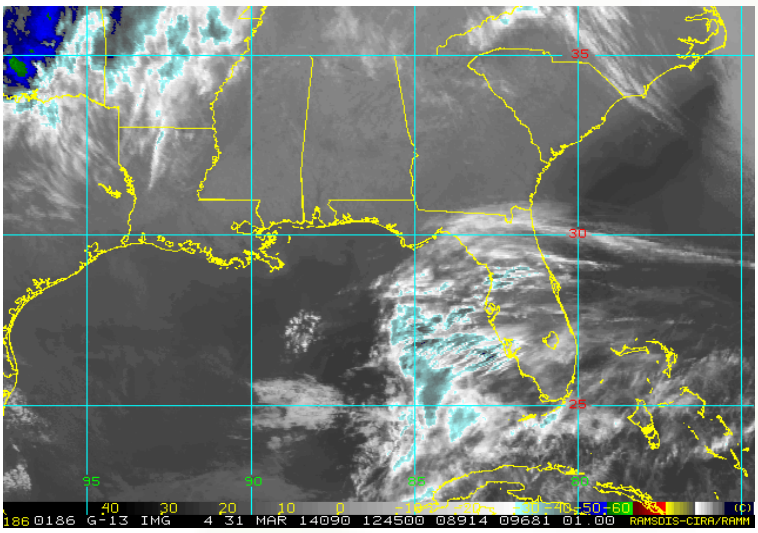
Format: GIF
Average Size: 110 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs40

- **GOES-13 - Visible and Short Wave Channels – Mexico Gulf**



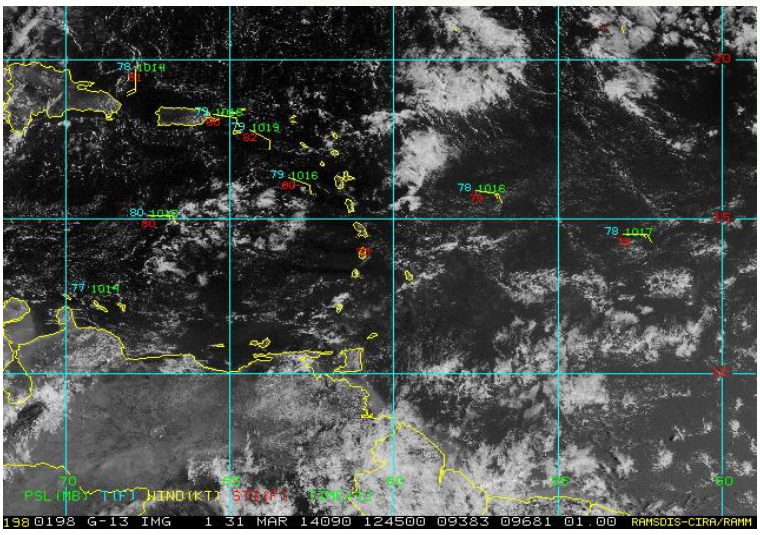
Format: GIF
Average Size: 215 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs41

- **GOES-13 - Infrared Channel Enhanced - Mexico Gulf**



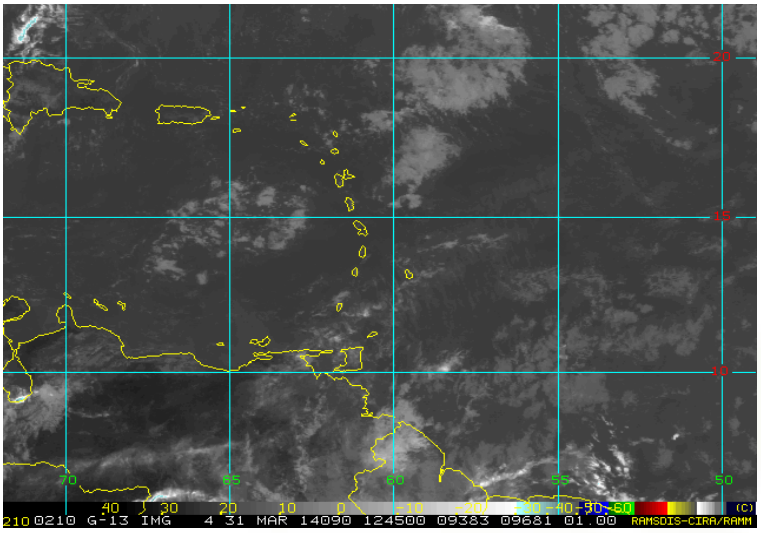
Format: GIF
Average Size: 135 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs42

- **GOES-13 - Visible and Short Wave Channels – East Caribbean**



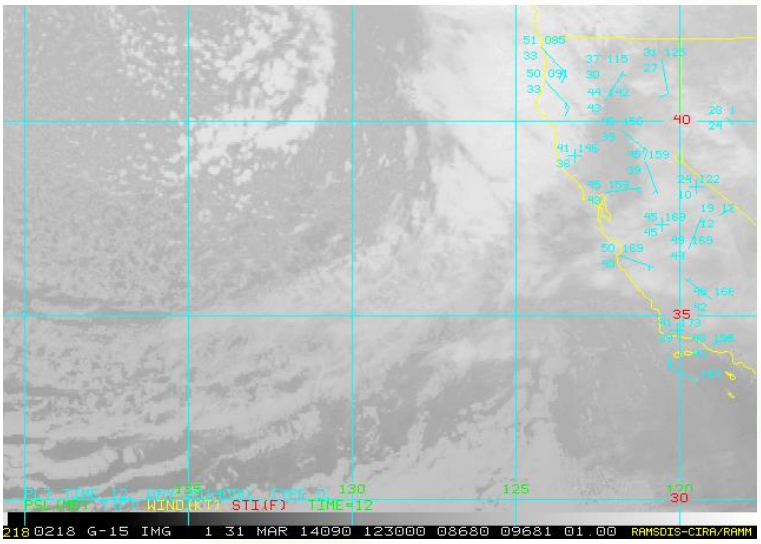
Format: GIF
Average Size: 210 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs43

- **GOES-13 - Infrared Channel Enhanced - East Caribbean**



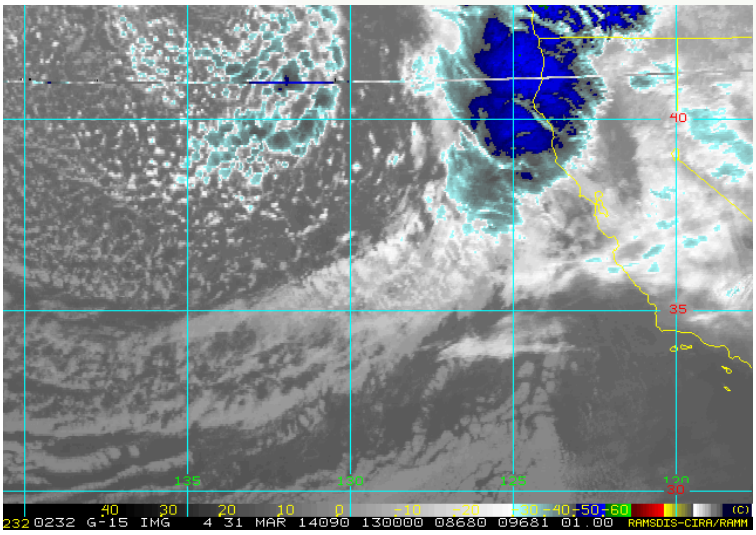
Format: GIF
Average Size: 120 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs44

- **GOES-15 - Visible and Short Wave Channels – US Northeast Pacific Region**



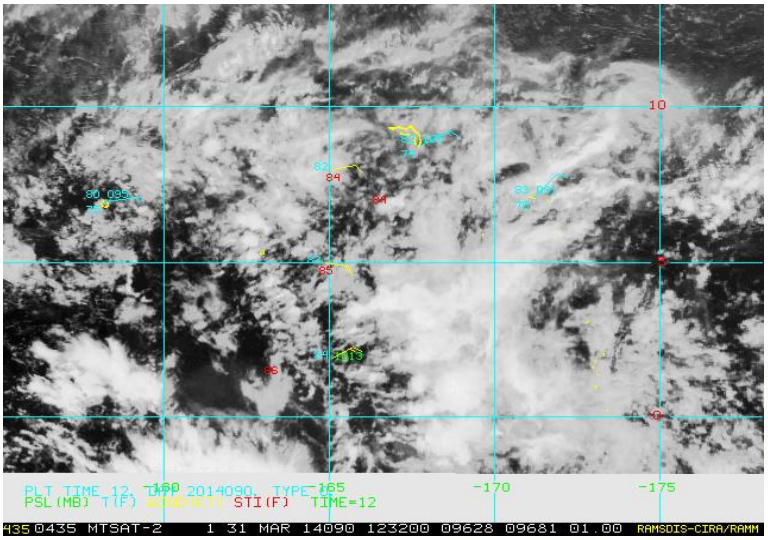
Format: GIF
Average Size: 220 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs45

- **GOES-15 - Infrared Channel Enhanced – US Northeast Pacific Region**



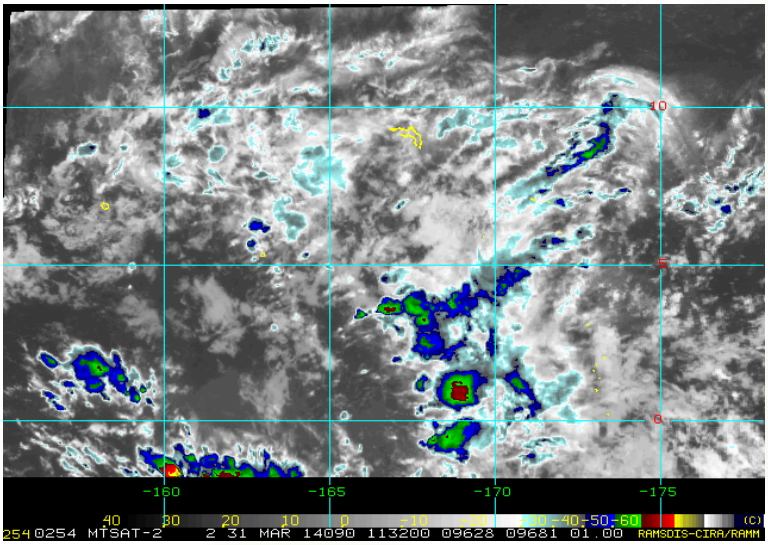
Format: GIF
Average Size: 120 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs46

- **MTSAT-2 - Visible and Short Wave Channels - Philippine sea**



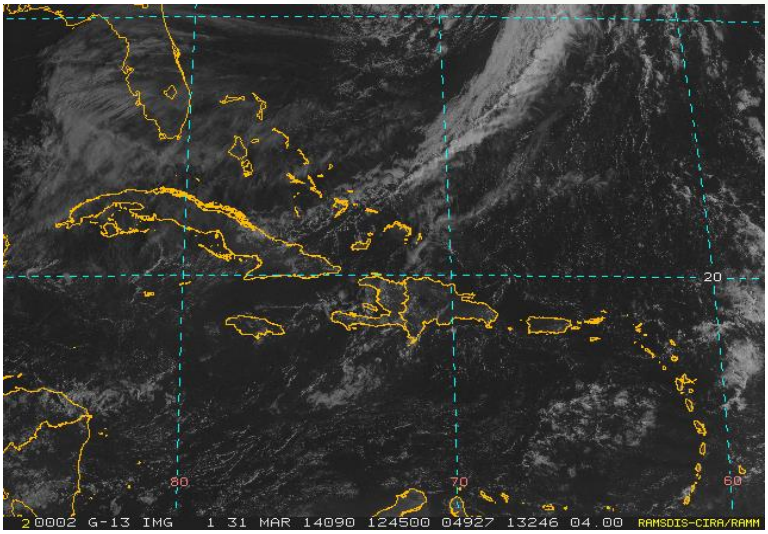
Format: GIF
Average Size: 230 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs47

- **MTSAT-2 - Infrared Channel Enhanced - Philippine sea**



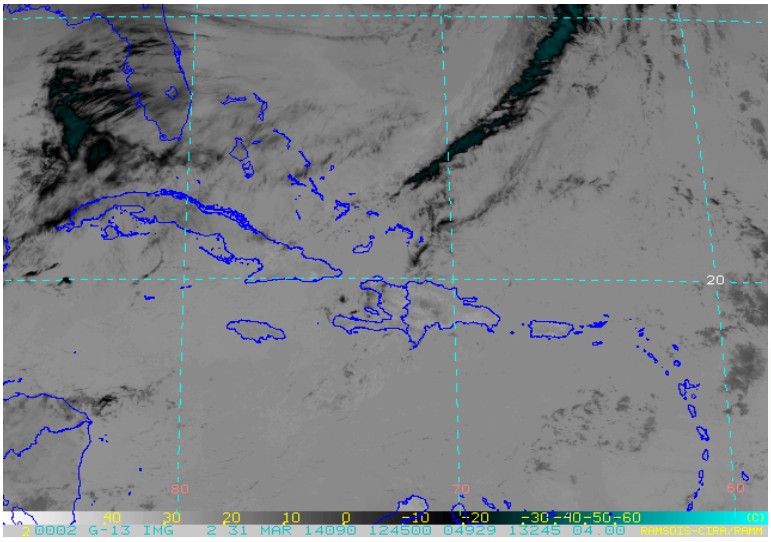
Format: GIF
Average Size: 155 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs48

- **GOES-13 - Visible Channel - Caribbean**



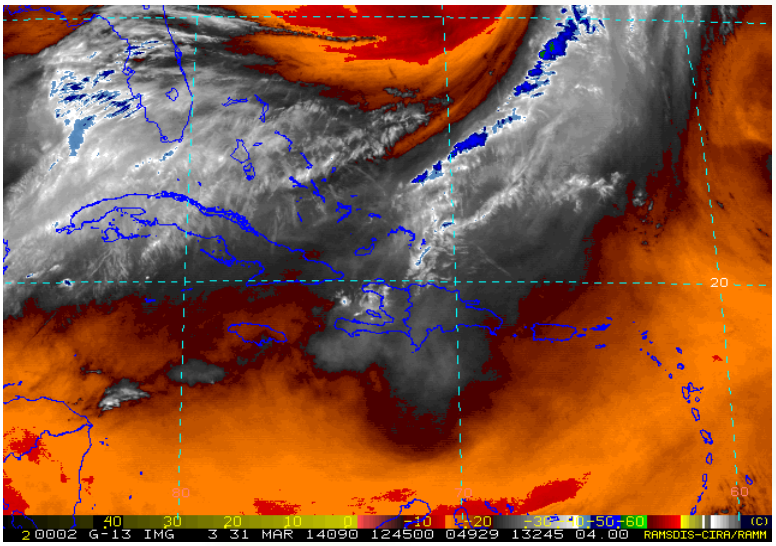
Format: GIF
Average Size: 150 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs49

- **GOES-13 - Short Wave Channel Enhanced - Caribbean**



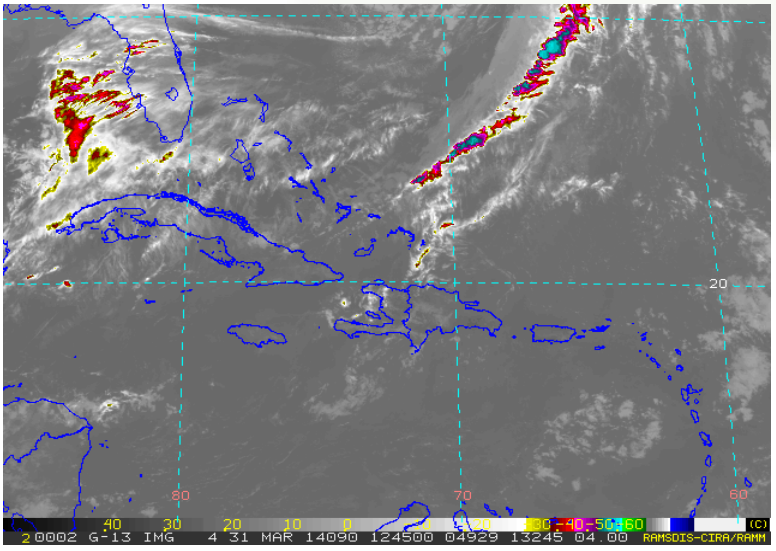
Format: GIF
Average Size: 145 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs50

- **GOES-13 - Water Vapor Channel Enhanced - Caribbean**



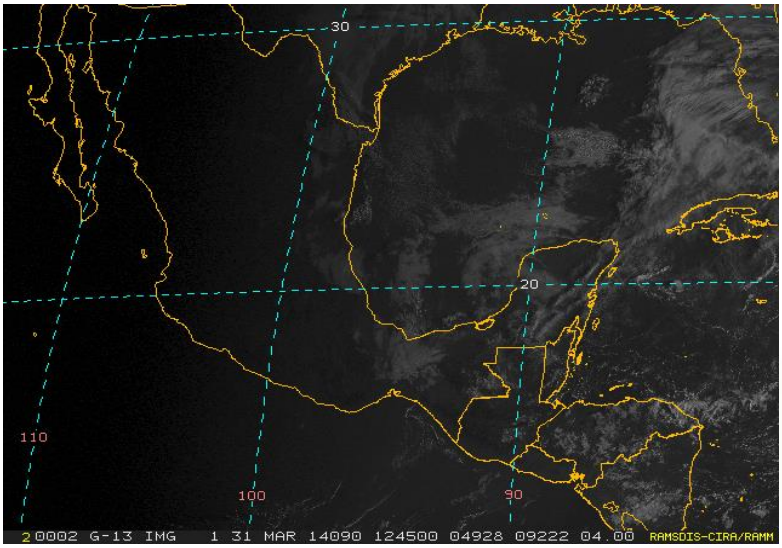
Format: GIF
Average Size: 110 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs51

- **GOES-13 - Infrared Channel Enhanced - Caribbean**



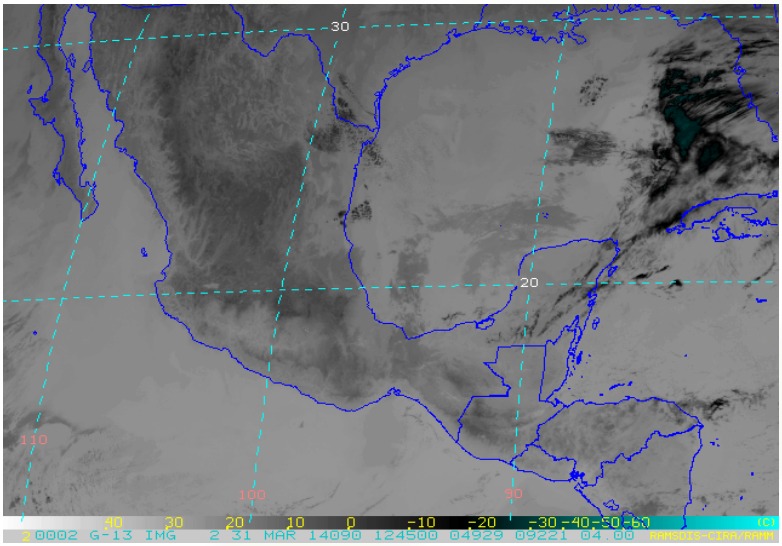
Format: GIF
Average Size: 120 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs52

- **GOES-13 - Visible Channel - Mexico**



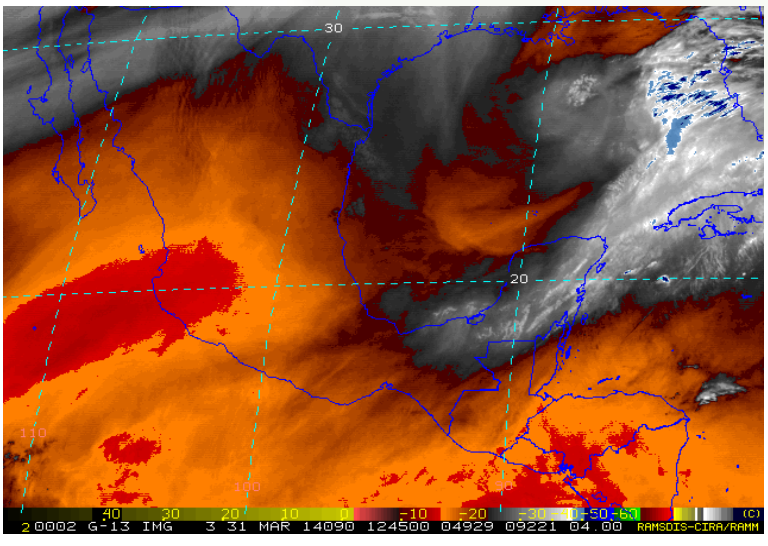
Format: GIF
Average Size: 165 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs53

- **GOES-13 - Short Wave Channel - Mexico**



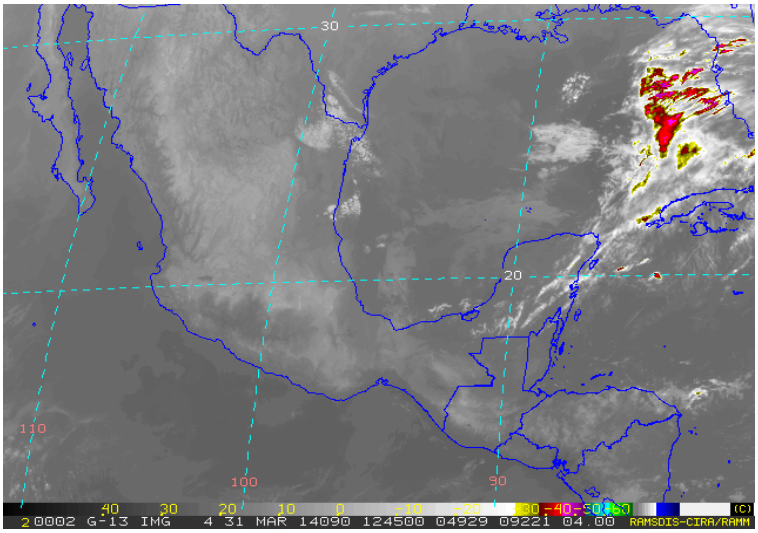
Format: GIF
Average Size: 185 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs54

- **GOES-13 - Water Vapour Channel Enhanced - Mexico**



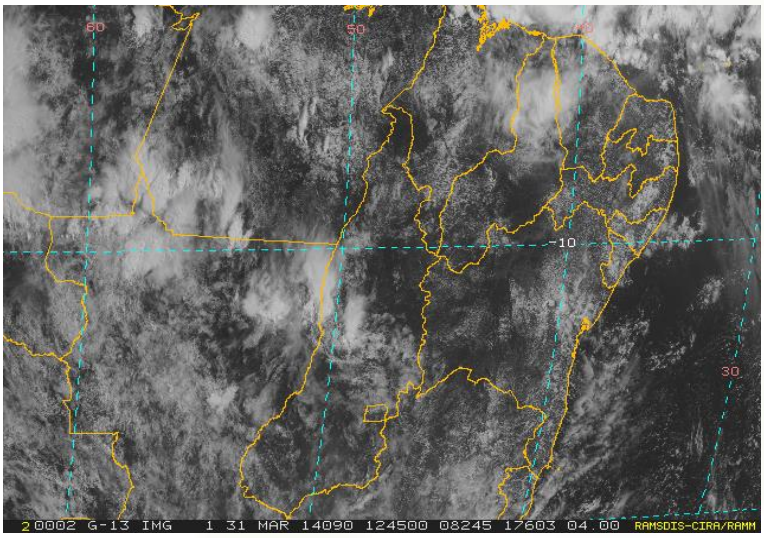
Format: GIF
Average Size: 125 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs55

- **GOES-13 - Infrared Channel Enhanced - Mexico**



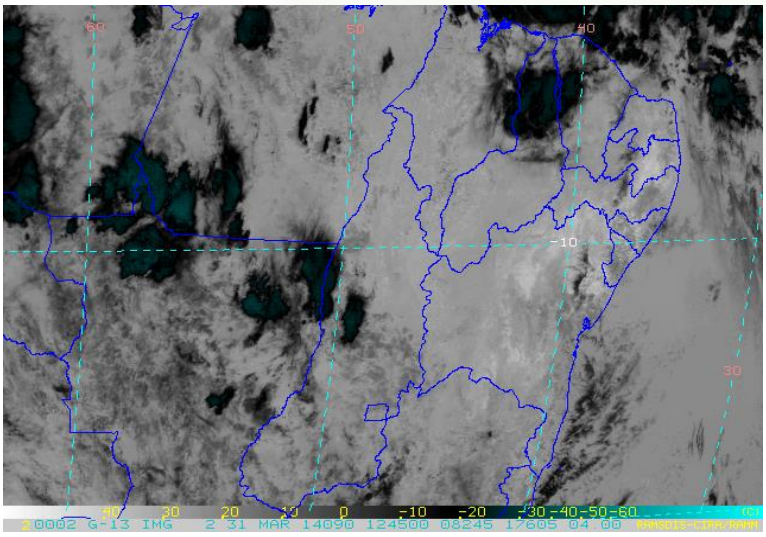
Format: GIF
Average Size: 155 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs56

- **GOES-13 - Visible Channel - Northeastern Brazil**



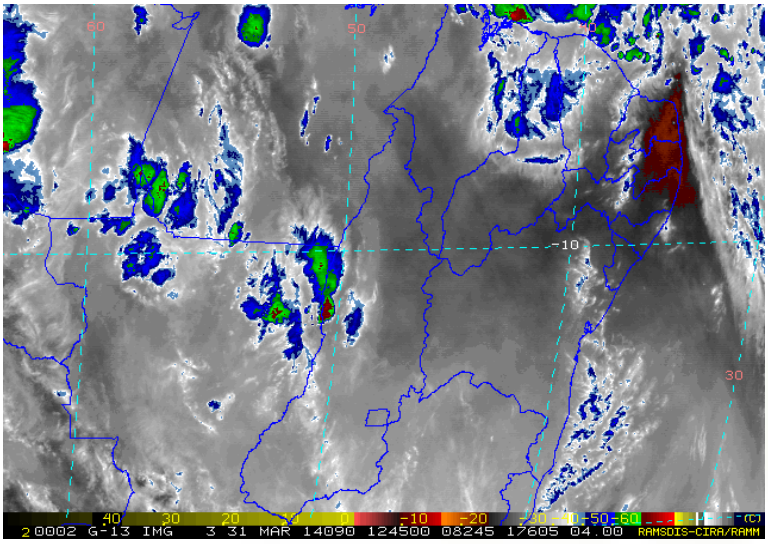
Format: GIF
Average Size: 130 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs57

- **GOES-13 - Short Wave Channel - Northeastern Brazil**



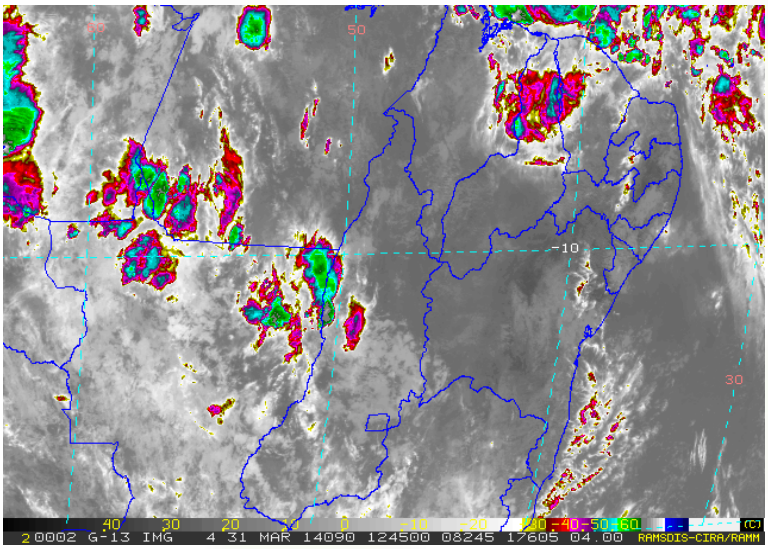
Format: GIF
Average Size: 135 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs58

- **GOES-13 - Water Vapor Channel Enhanced - Northeastern Brazil**



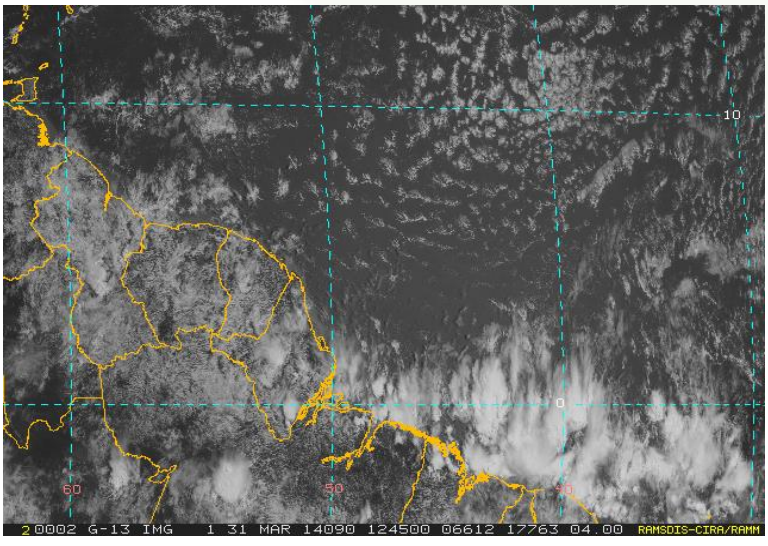
Format: GIF
Average Size: 75 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs59

- **GOES-13 - Infrared Channel Enhanced - Northeastern Brazil**



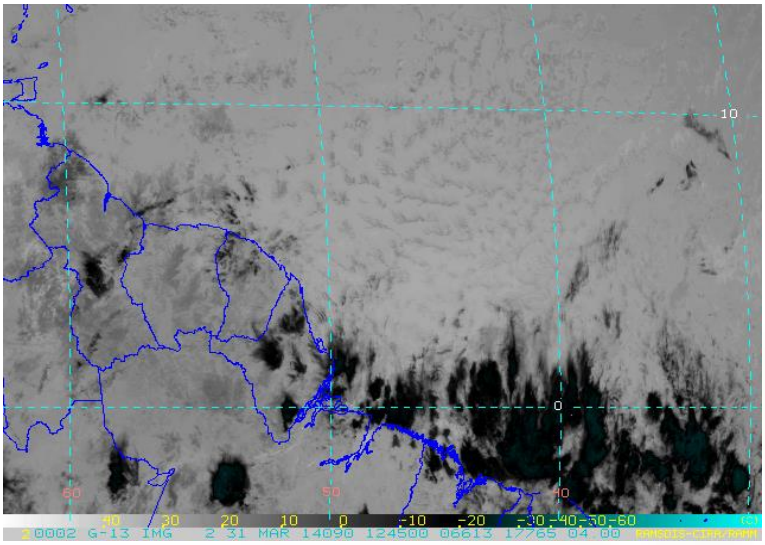
Format: GIF
Average Size: 100 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs60

- **GOES-13 - Visible Channel - Northeastern South America**



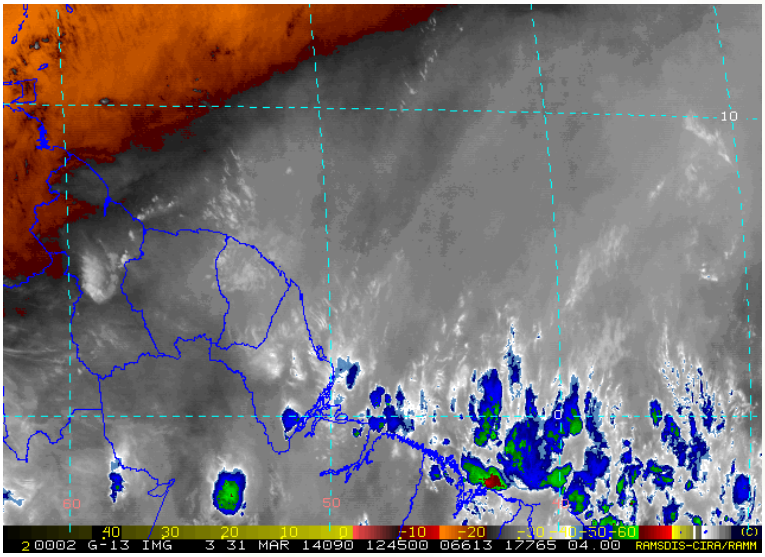
Format: GIF
Average Size: 150 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs61

- **GOES-13 - Short Wave Channel Enhanced - Northeastern South America**



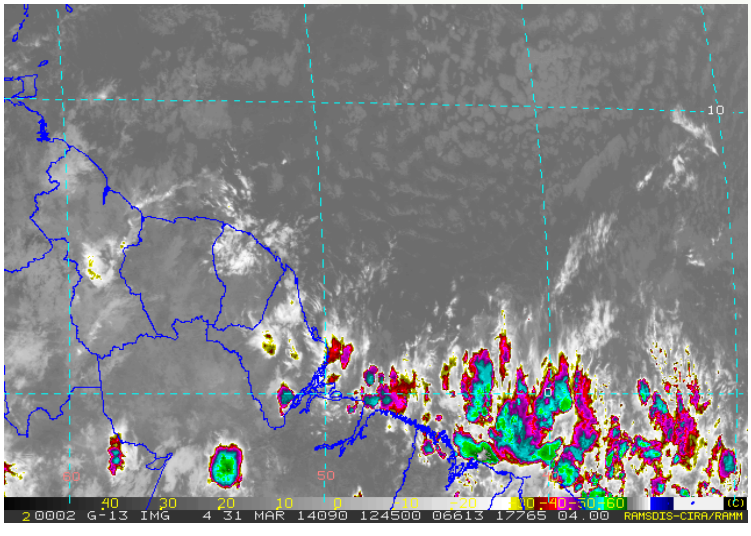
Format: GIF
Average Size: 155 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs62

- **GOES-13 - Water Vapor Channel Enhanced - Northeastern South America**



Format: GIF
Average Size: 95 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs63

- **GOES-13 - Infrared Channel Enhanced - Northeastern South America**

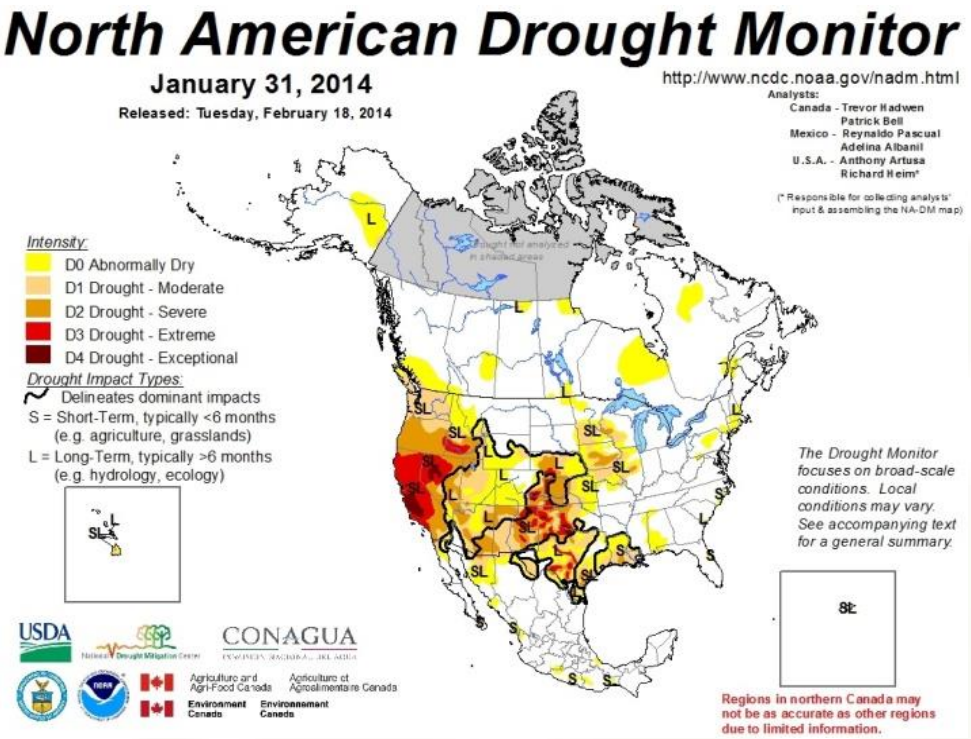


Format: GIF
Average Size: 120 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs64

PROVIDER: NADM

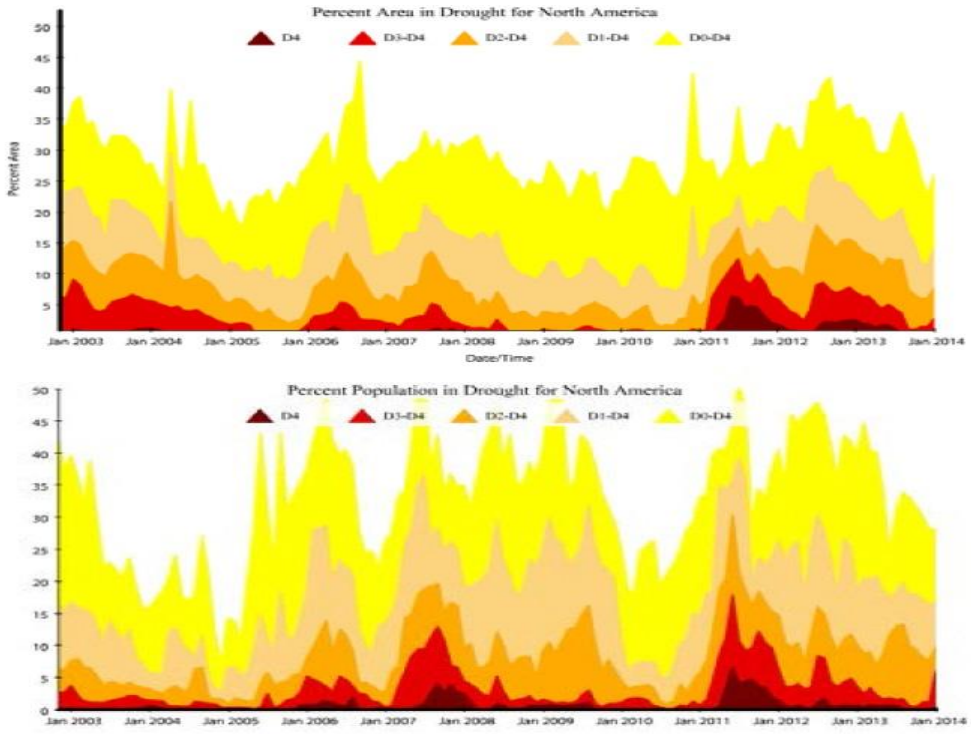
(North American Drought Monitor – USA / MEXICO / CANADA)

- **Drought Monitor - North America – English / Spanish / French**



Formats: JPEG and PDF
Average Sizes:
600 kB (JPEG) / 1.5 MB (PDF)
Frequency: Monthly
Naming Conventions:
nadm-YYYYMM
nadm-YYYYMM-sp
nadm-YYYYMM-fr

- **Drought Monitor Monthly Report - North America – English / Spanish / French**

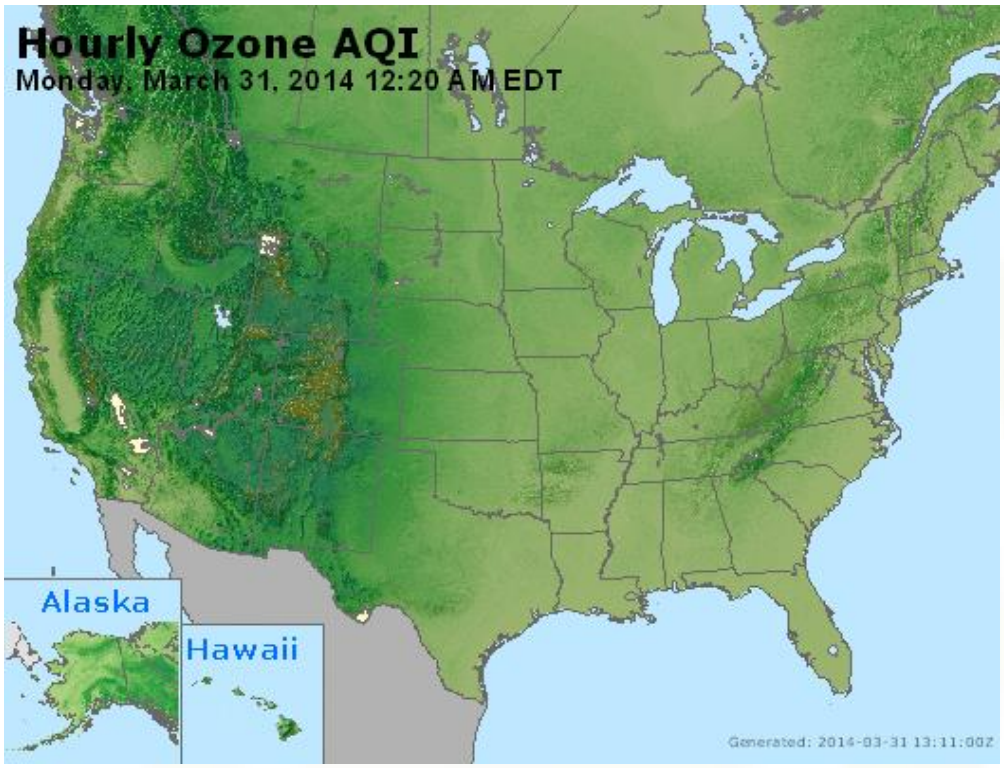


Format: PDF
Average Size: 118 kB
Frequency: Monthly
Naming Conventions:
nadm-narr-YYYYMM
nadm-narr-YYYYMM-sp
nadm-narr-YYYYMM-fr

PROVIDER: USEPA

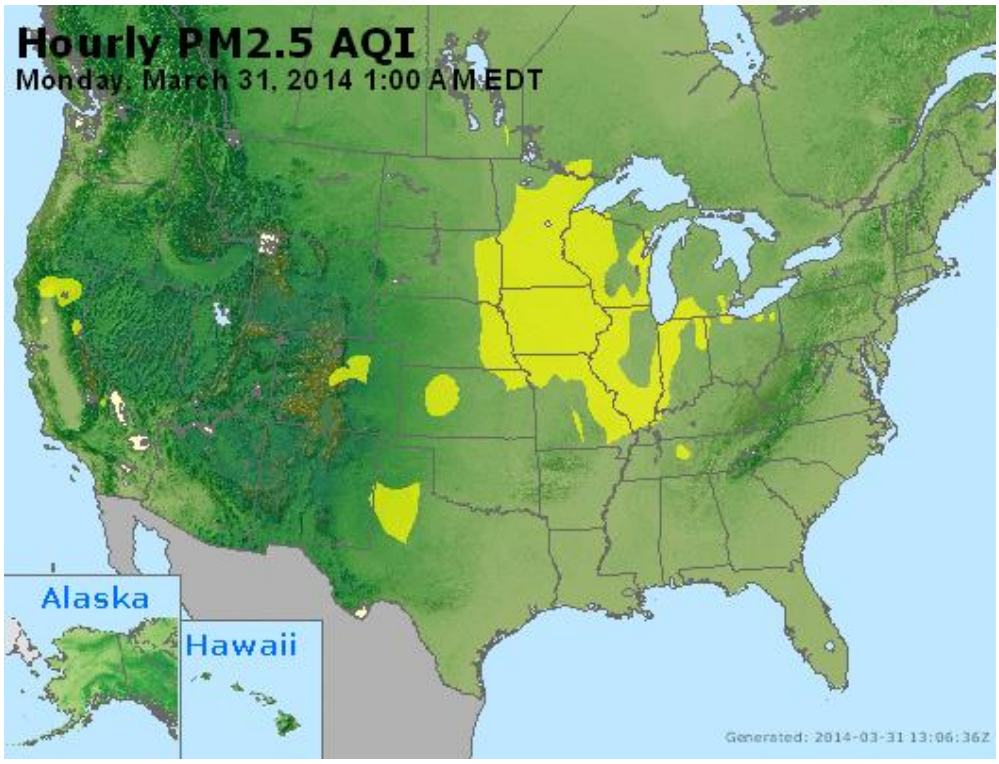
(US Environmental Protection Agency - USA)

- **Real Time Ozone Animated - North America**



Format: GIF
Average Size: 165 kB
Frequency: 60 minutes
Max n° of files a day: 24
Naming Convention: 8a-super

- **Real Time Particulate Matter 2.5 Micrometers Animated - North America**

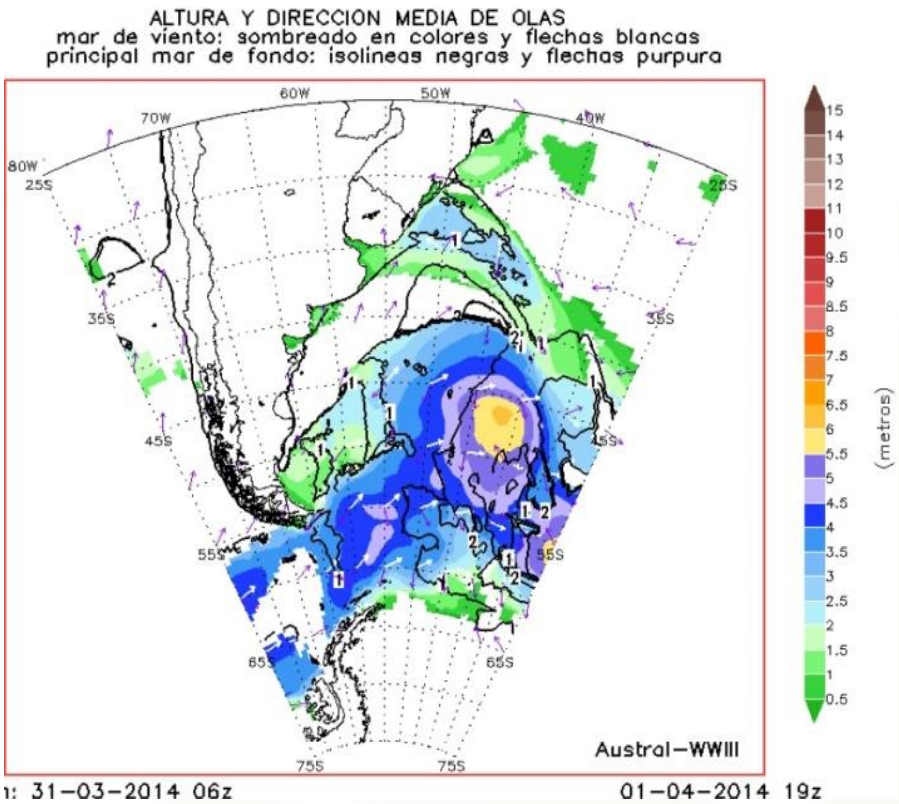


Format: GIF
Average Size: 45 kB
Frequency: 15 minutes
Max n° of files a day: 96
Naming Convention: pm25-24a-super

PROVIDER: CONAE

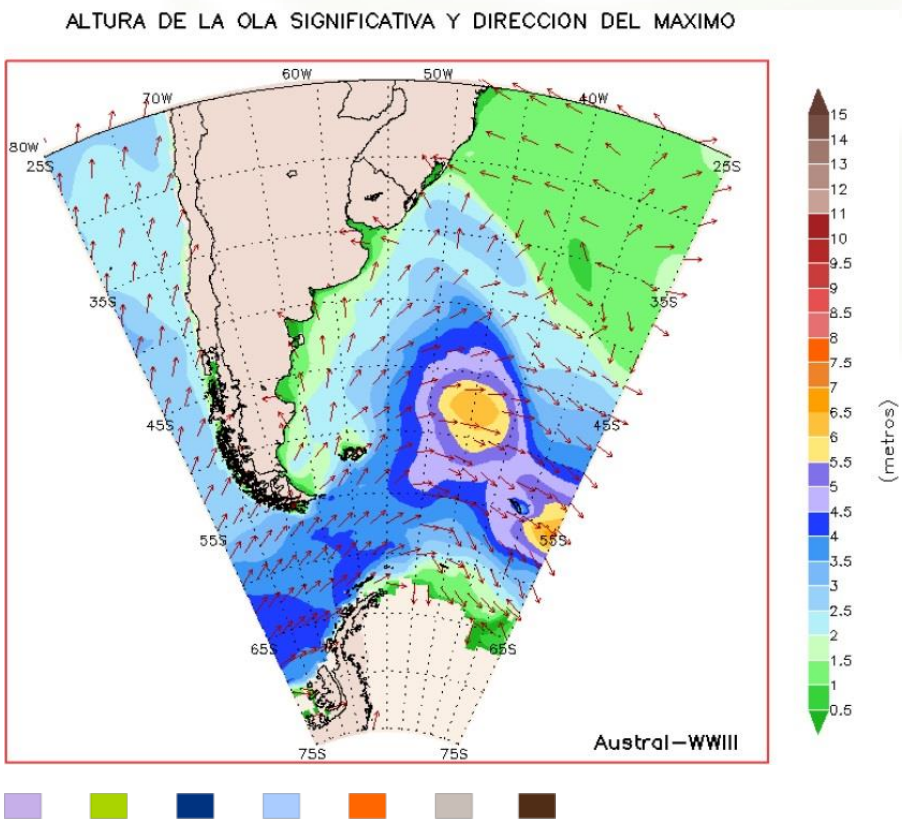
(National Space Activities Commission - Argentina)

- **Average Height and Direction of Waves - Southern South America**



Formats: PDF and Text (compressed)
Average Size: 3.18 MB
Frequency: 360 minutes
Max n° of files a day: 4 per product
Naming Conventions:
olas_austral.zip

- **Significant Wave Height and Direction of Maximum**

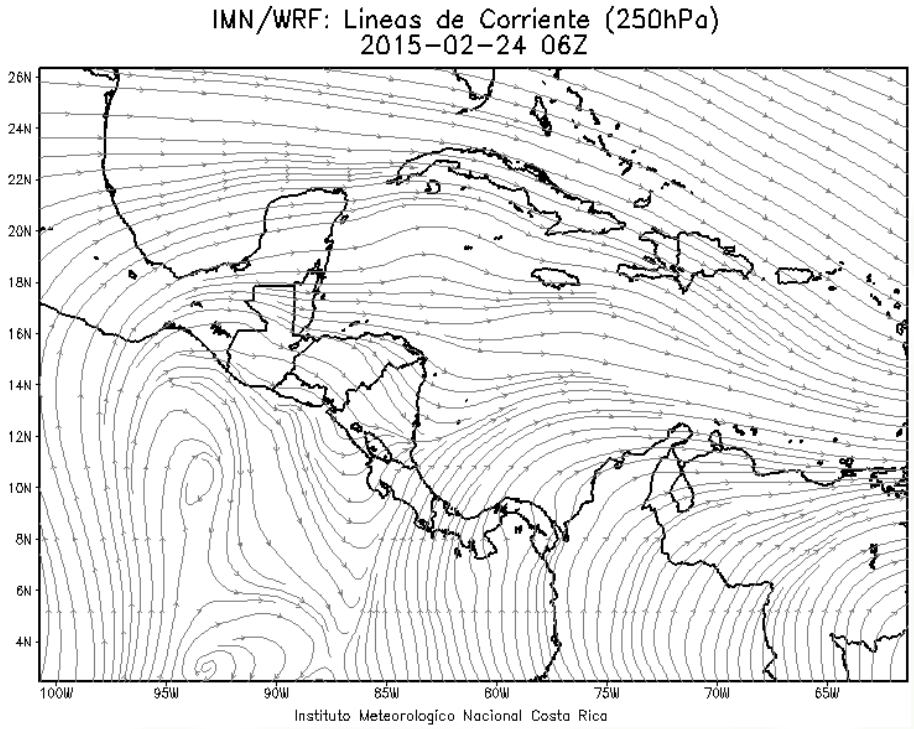


Formats: PDF and Text (compressed)
Average Size: 3.18 MB
Frequency: 360 minutes
Max n° of files a day: 4 per product
Naming Conventions:
olas_austral.zip

PROVIDER: IMN-CostaRica

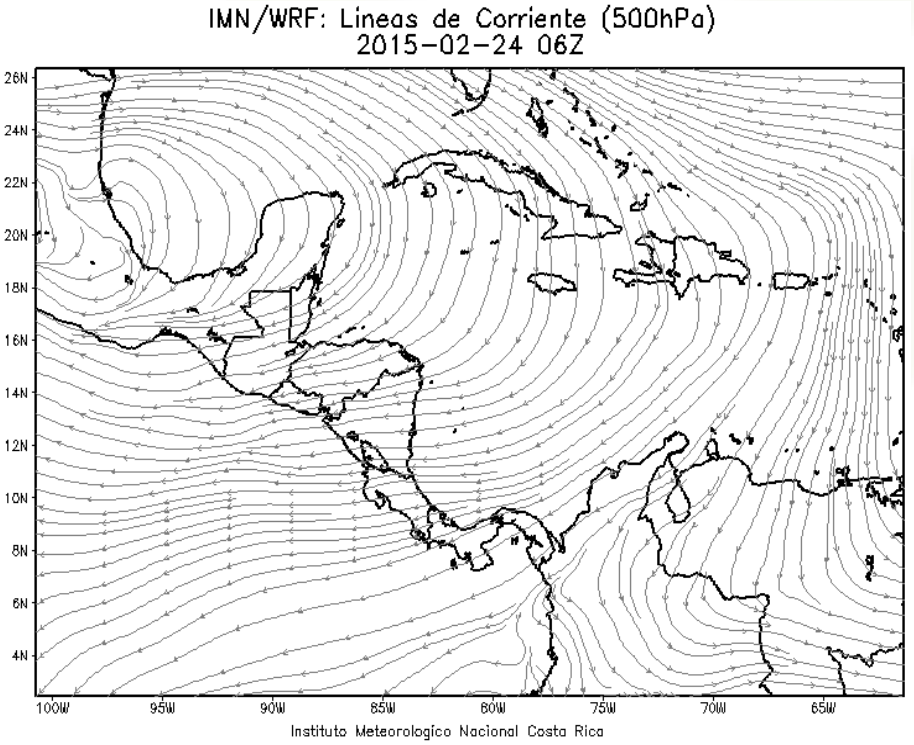
(National Meteorological Institute – Costa Rica)

- **Stream Lines Forecast - 250 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



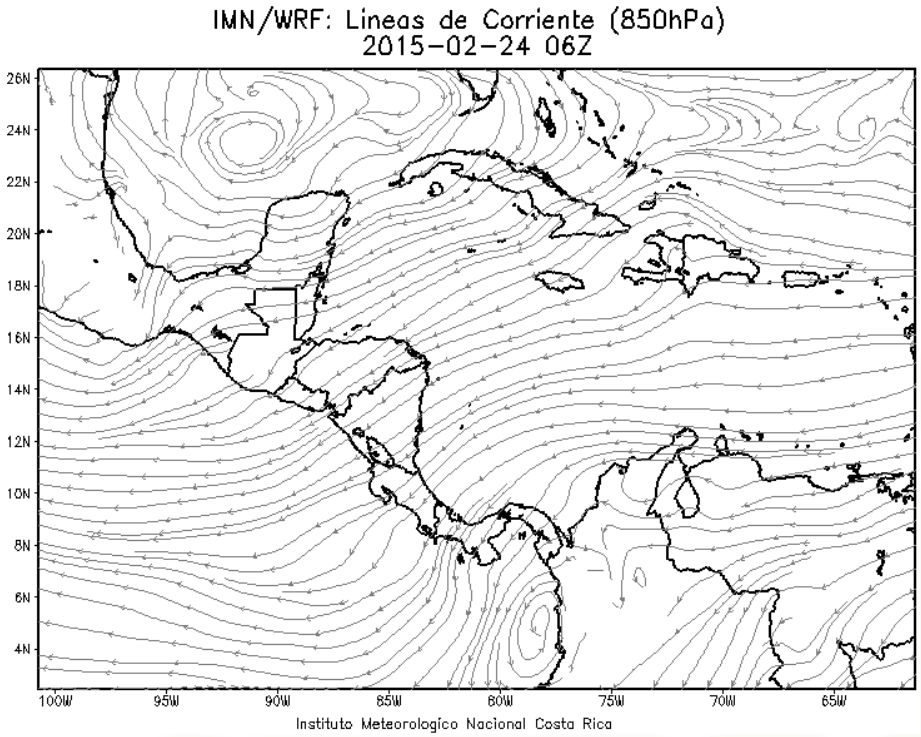
Format: PNG
Average Size: 25 kB
Frequency: Daily (per forecast)
Naming Conventions:
stream-06h-250hPa-dom2
stream-12h-250hPa-dom2
stream-18h-250hPa-dom2
stream-24h-250hPa-dom2
stream-30h-250hPa-dom2
stream-36h-250hPa-dom2

- **Stream Lines Forecast - 500 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



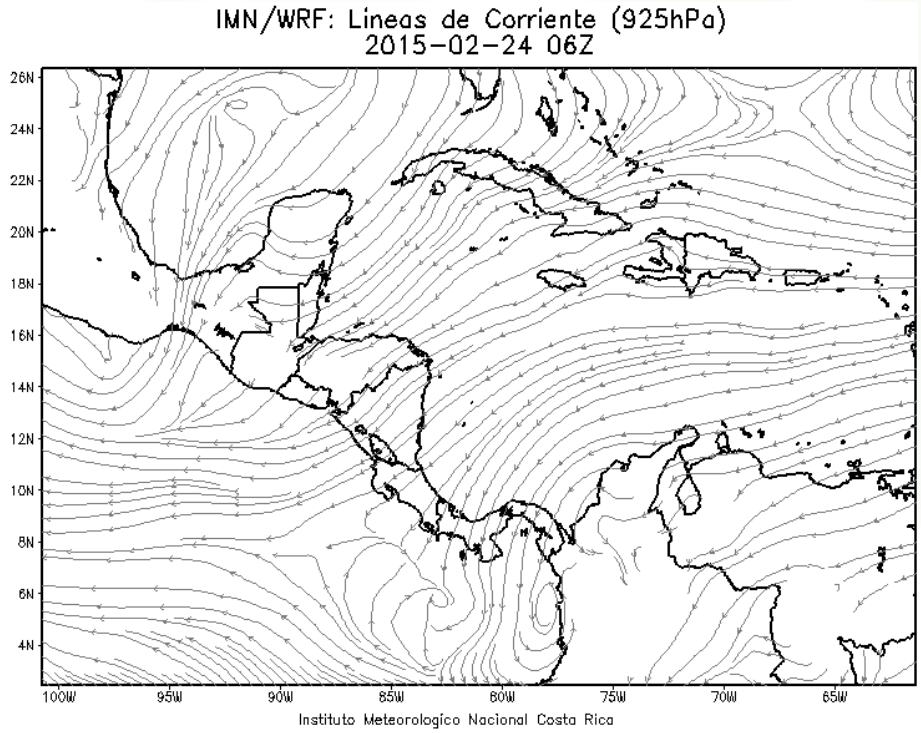
Format: PNG
Average Size: 25 kB
Frequency: Daily (per forecast)
Naming Conventions:
stream-06h-500hPa-dom2
stream-12h-500hPa-dom2
stream-18h-500hPa-dom2
stream-24h-500hPa-dom2
stream-30h-500hPa-dom2
stream-36h-500hPa-dom2

- **Stream Lines Forecast - 850 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



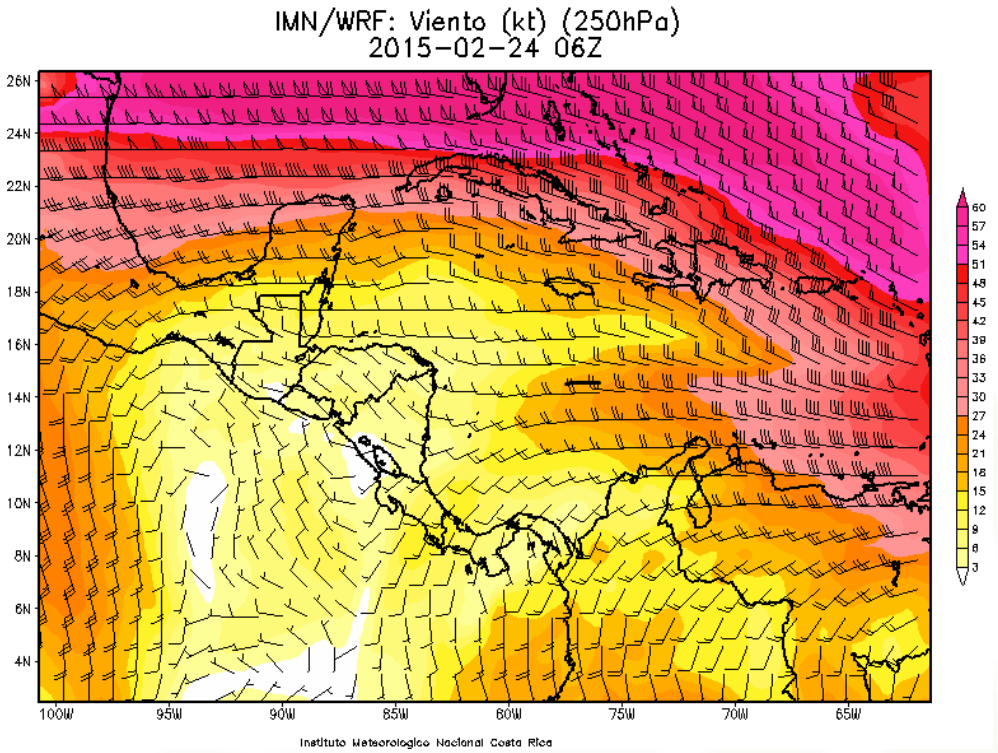
Format: PNG
Average Size: 25 kB
Frequency: Daily (per forecast)
Naming Conventions:
stream-06h-850hPa-dom2
stream-12h-850hPa-dom2
stream-18h-850hPa-dom2
stream-24h-850hPa-dom2
stream-30h-850hPa-dom2
stream-36h-850hPa-dom2

- **Stream Lines Forecast - 925 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



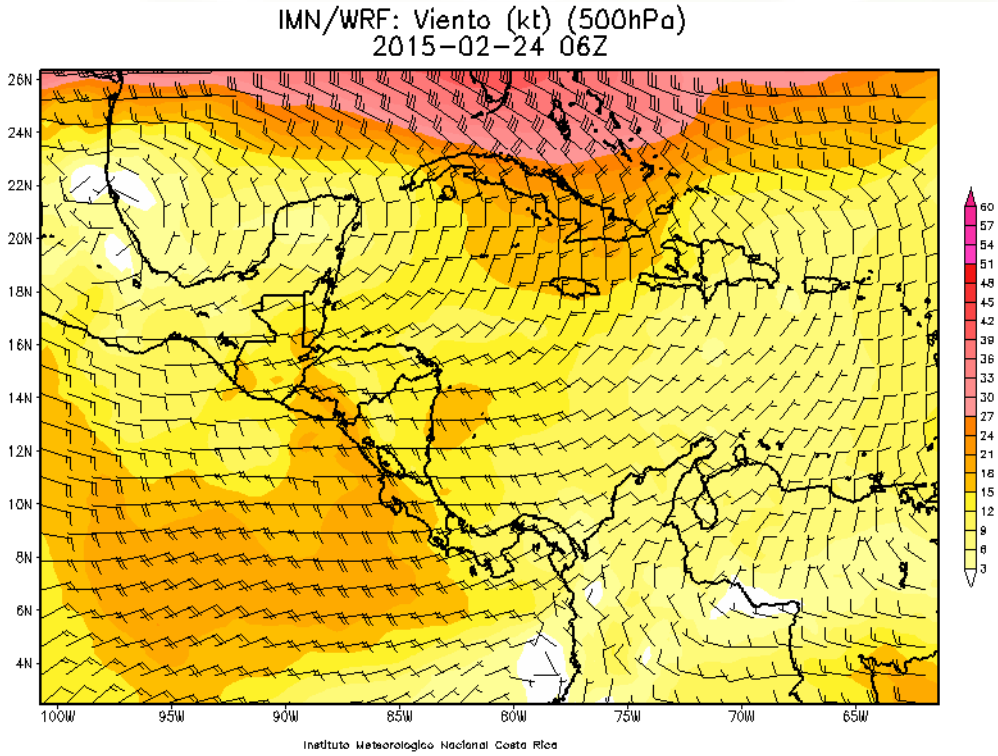
Format: PNG
Average Size: 25 kB
Frequency: Daily (per forecast)
Naming Conventions:
stream-06h-925hPa-dom2
stream-12h-925hPa-dom2
stream-18h-925hPa-dom2
stream-24h-925hPa-dom2
stream-30h-925hPa-dom2
stream-36h-925hPa-dom2

- **Wind Forecast - 250 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



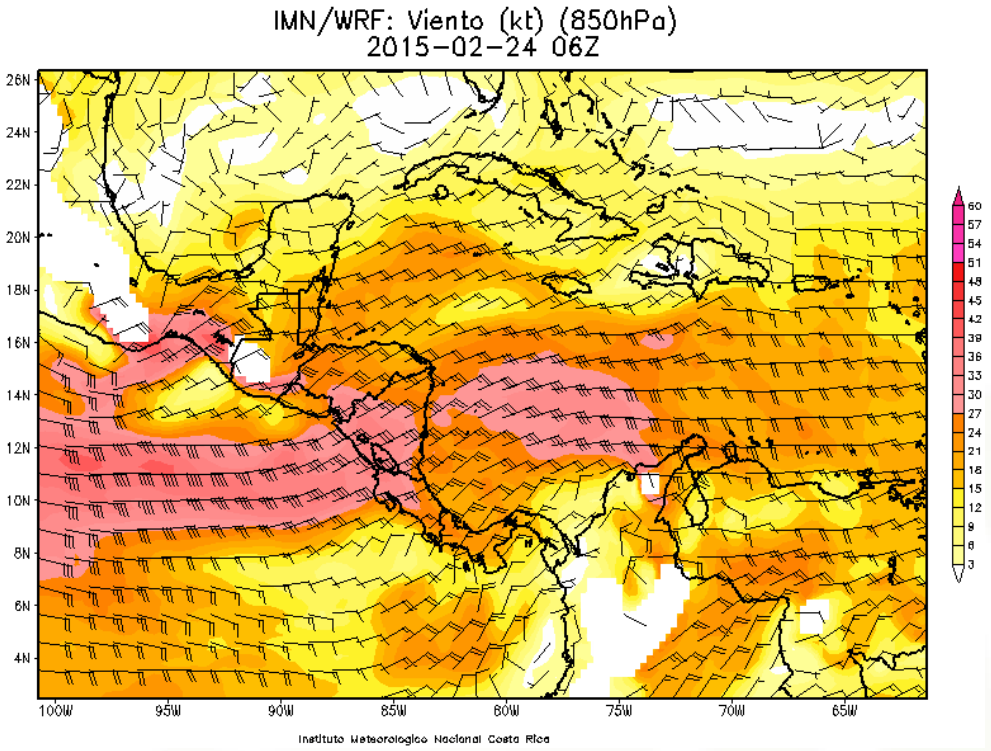
Format: PNG
Average Size: 40 kB
Frequency: Daily (per forecast)
Naming Conventions:
wind-06h-250hPa-dom2
wind-12h-250hPa-dom2
wind-18h-250hPa-dom2
wind-24h-250hPa-dom2
wind-30h-250hPa-dom2
wind-36h-250hPa-dom2

- **Wind Forecast - 500 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



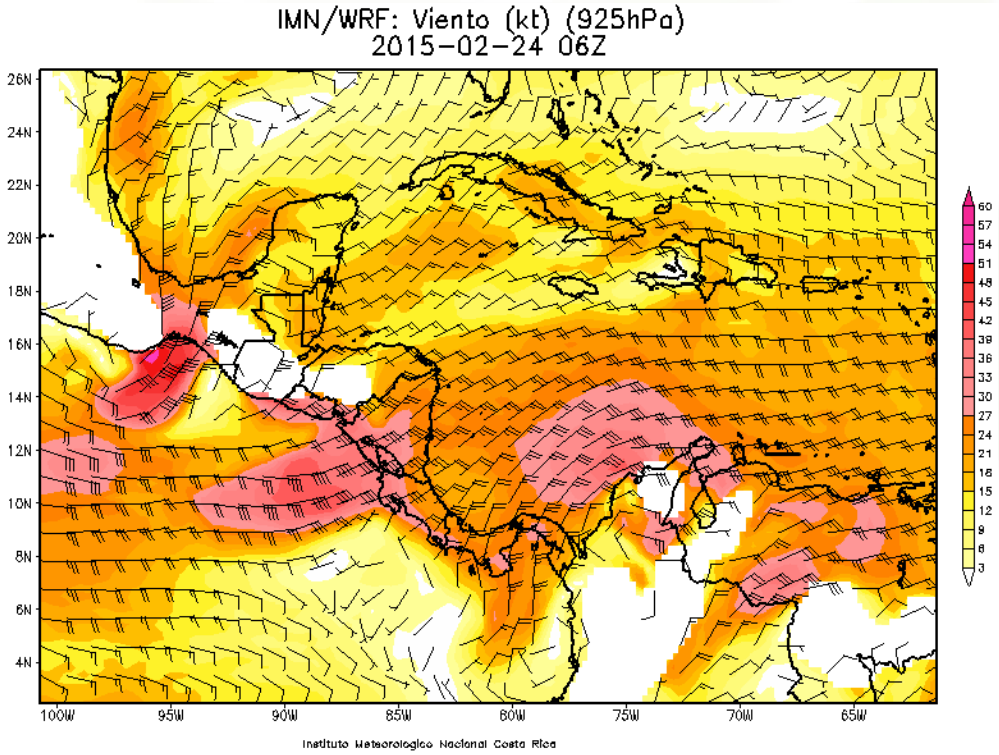
Format: PNG
Average Size: 40 kB
Frequency: Daily (per forecast)
Naming Conventions:
wind-06h-500hPa-dom2
wind-12h-500hPa-dom2
wind-18h-500hPa-dom2
wind-24h-500hPa-dom2
wind-30h-500hPa-dom2
wind-36h-500hPa-dom2

- **Wind Forecast - 850 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



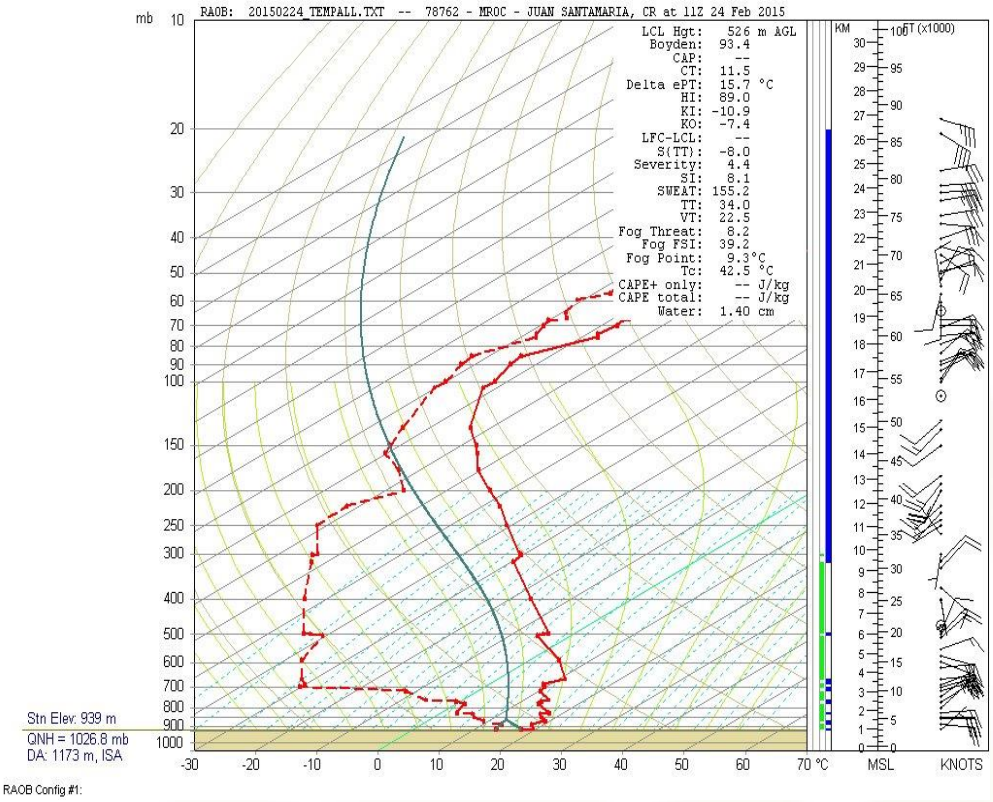
Format: PNG
Average Size: 40 kB
Frequency: Daily (per forecast)
Naming Conventions:
wind-06h-850hPa-dom2
wind-12h-850hPa-dom2
wind-18h-850hPa-dom2
wind-24h-850hPa-dom2
wind-30h-850hPa-dom2
wind-36h-850hPa-dom2

- **Wind Forecast - 925 hPa - 6 /12 / 18 / 24 / 30 / 36 hours forecast - Central America and Caribbean**



Format: PNG
Average Size: 40 kB
Frequency: Daily (per forecast)
Naming Conventions:
wind-06h-925hPa-dom2
wind-12h-925hPa-dom2
wind-18h-925hPa-dom2
wind-24h-925hPa-dom2
wind-30h-925hPa-dom2
wind-36h-925hPa-dom2

- **Radiosonde Archive**

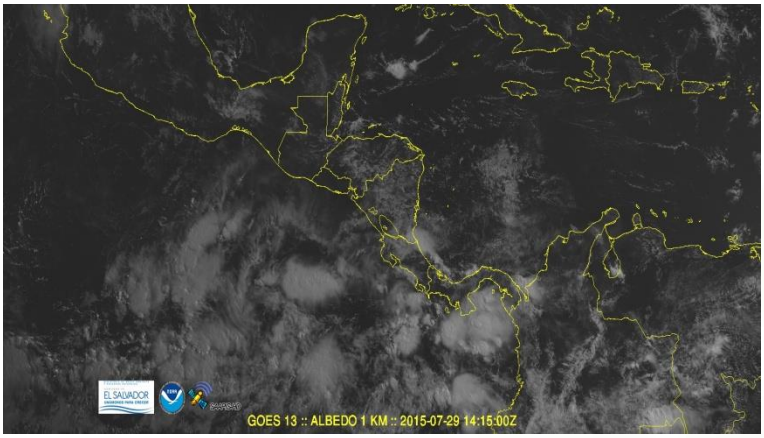


Formats: JPEG, BUFR, TXT, AED
Average Sizes:
200 kB (JPEG)
70 kB (BUFR)
2 kB (TXT)
245 kB (AED)
Frequency: Daily (per format)
Naming Conventions:
YYYYMMDD.AED
YYYYMMDDbufr309052_100.bfr
YYYYMMDDbufr309052_all
YYYYMMDD_TEMPALL

PROVIDER: MARN-El Salvador

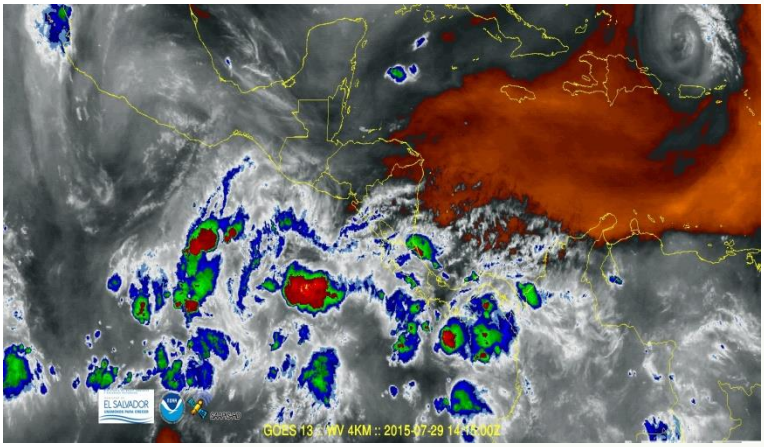
(Department of Environment and Natural Resources – El Salvador)

- **GOES-13 – Visible Channel – Central America**



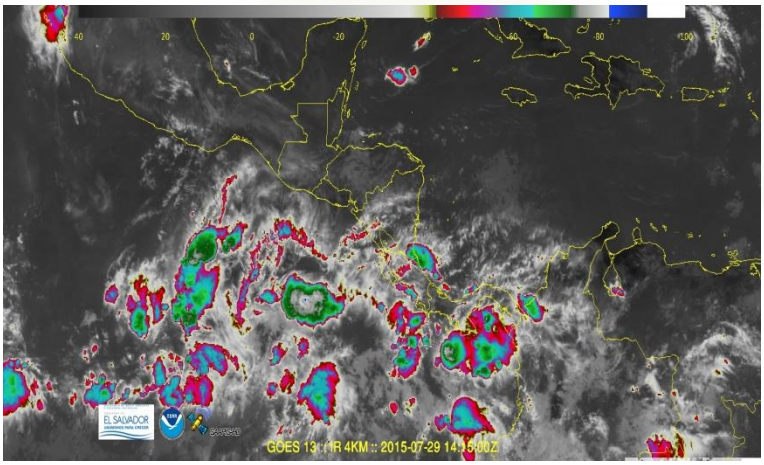
Format: JPEG
Average Size per image: 1.10 MB
Frequency: 9 images every 15 minutes
Max n° of files a day: 864 (overwriting)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 µm, cent. at 0.63 µm
Projection: Rectangular
Resolution: 1 x 1 km
Naming Convention:
vis4_1 to vis4_9

- **GOES-13 – Water Vapor Channel Enhanced – Central America**



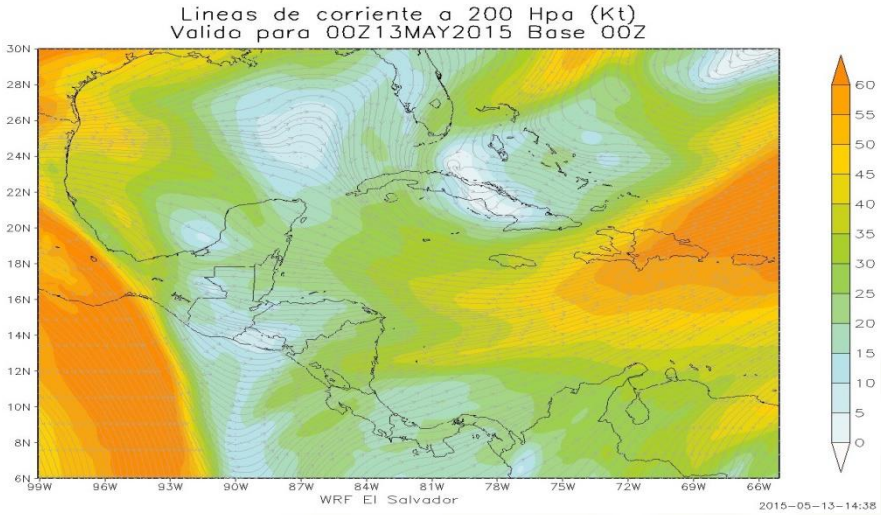
Format: JPEG
Average Size per image: 1.10 MB
Frequency: 9 images every 15 minutes
Max n° of files a day: 864 (overwriting)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 3
Wavelength: 5.77 to 7.33 µm, cent. at 6.50 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
wv4_1 to wv4_9

- **GOES-13 – Infrared Channel Enhanced – Central America**



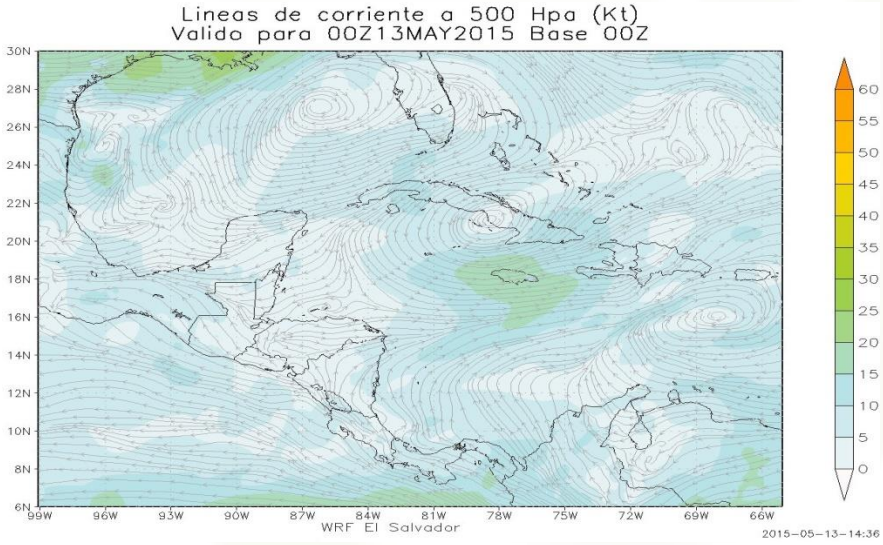
Format: JPEG
Average Size per image: 620 kB
Frequency: 9 images every 15 minutes
Max n° of files a day: 864 (overwriting)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 µm, cent. at 10.70 µm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
ir4_1 to ir4_9

- **WRF Model - 200 Milibars Wind – Central America and Caribbean**



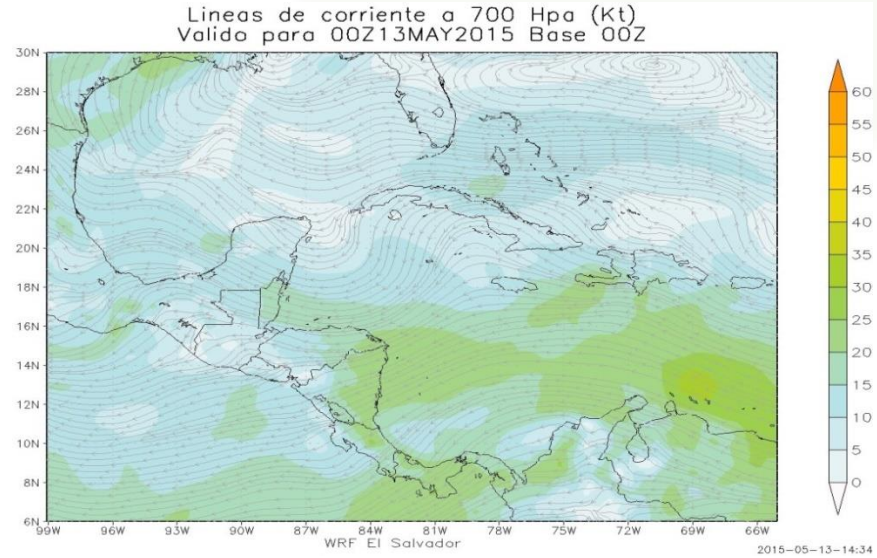
Format: JPEG
Average Size per image: 306 kB
Frequency: 73 images per day
Spatial Resolution: 15 km
Naming Convention:
strm_200_1 to strm_200_73

- **WRF Model - 500 Milibars Wind – Central America and Caribbean**



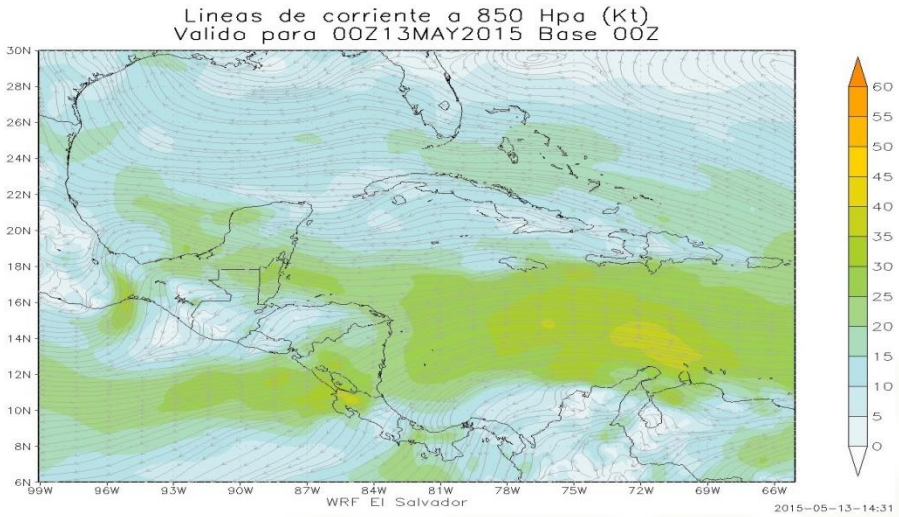
Format: JPEG
Average Size per image: 360 kB
Frequency: 73 images per day
Spatial Resolution: 15 km
Naming Convention:
strm_500_1 to strm_500_73

- **WRF Model - 700 Milibars Wind – Central America and Caribbean**



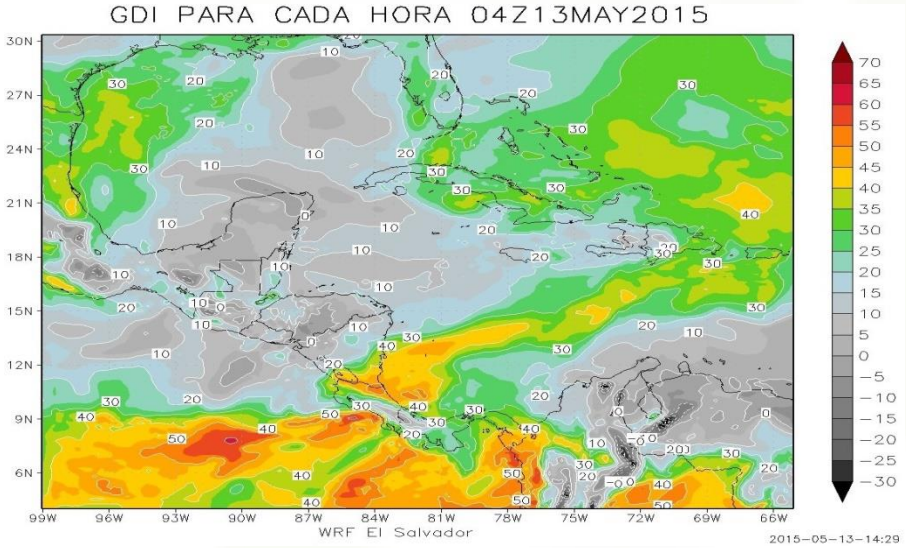
Format: JPEG
Average Size per image: 338 kB
Frequency: 73 images per day
Spatial Resolution: 15 km
Naming Convention:
strm_700_1 to strm_700_73

- **WRF Model - 850 Milibars Wind – Central America and Caribbean**



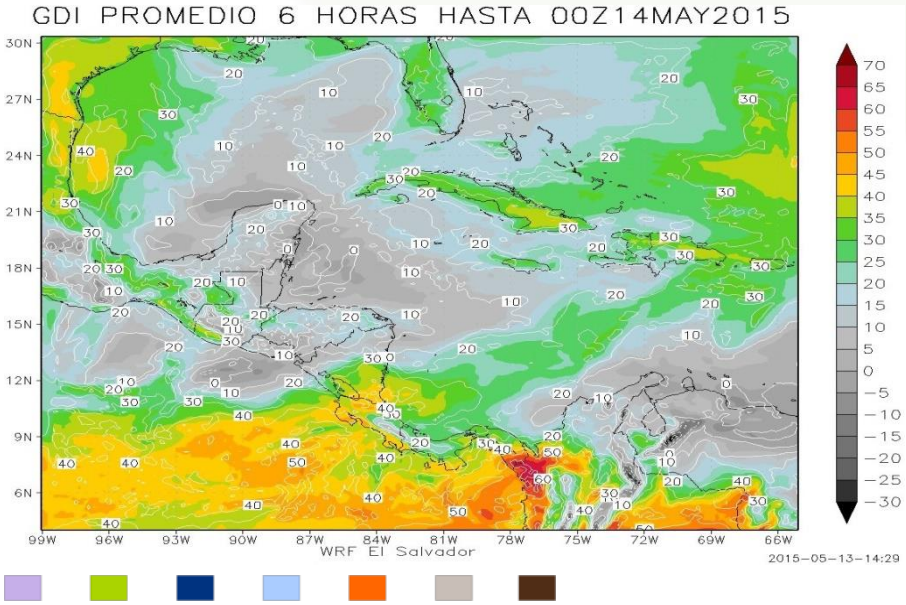
Format: JPEG
Average Size per image: 360 kB
Frequency: 73 images per day
Spatial Resolution: 15 km
Naming Convention:
strm_850_1 to strm_850_73

- **WRF Model - Galvez-Davison Index for Convective Instability (GDI) Every Hour**



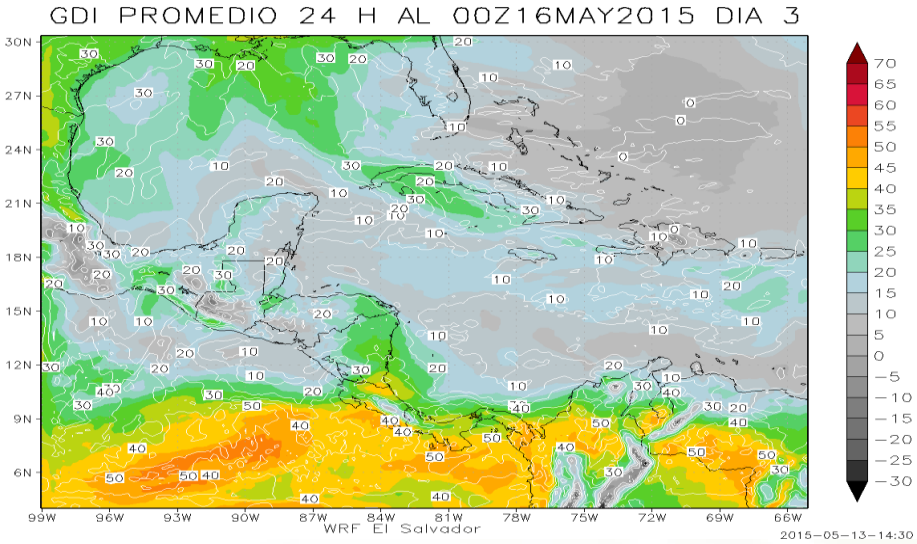
Format: JPEG
Average Size per image: 309 kB
Frequency: 73 images per day
Spatial Resolution: 15 km
Naming Convention:
gdi_1 to gdi_73

- **WRF Model - Galvez-Davison Index for Convective Instability (GDI) Every 6 Hours**



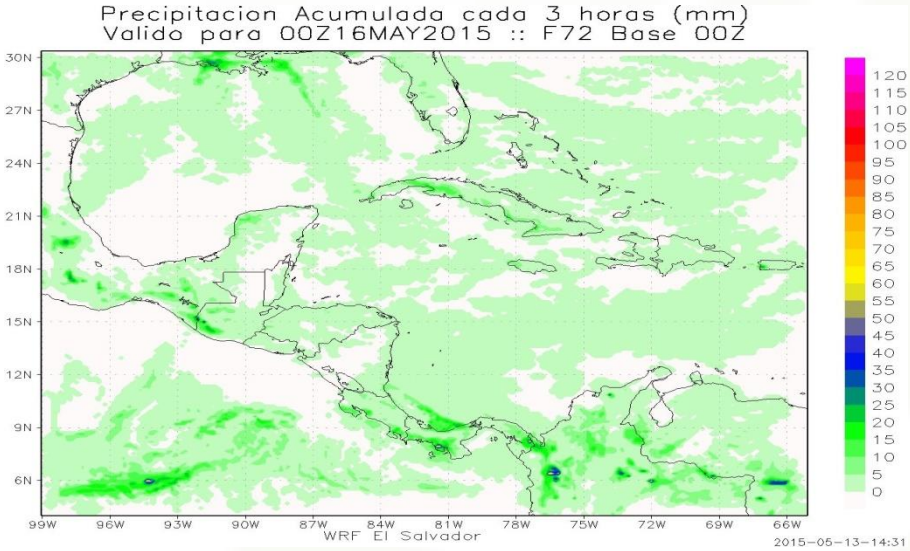
Format: JPEG
Average Size per image: 309 kB
Frequency: 12 images per day
Spatial Resolution: 15 km
Naming Convention:
gdi_6h_1 to gdi_6h_12

- **WRF Model - Galvez-Davison Index for Convective Instability (GDI) 24 Hours Average**



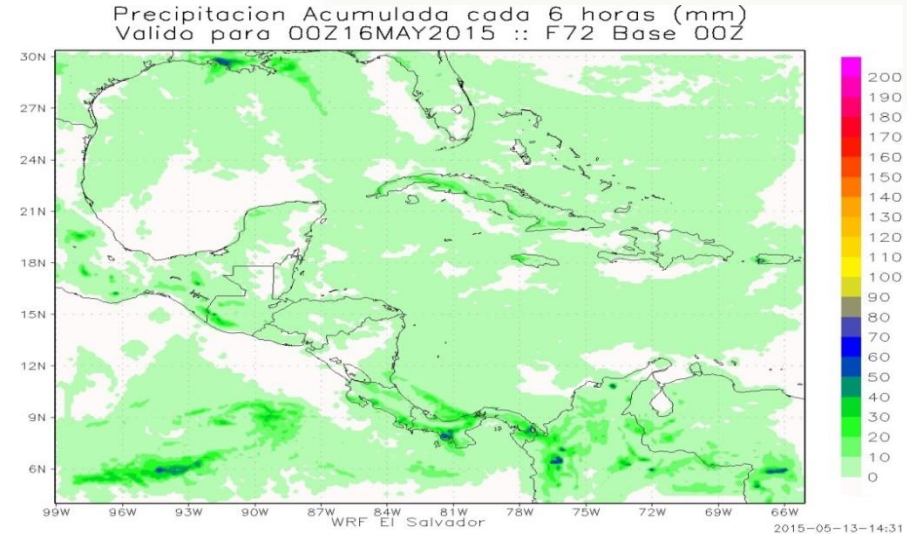
Format: JPEG
Average Size per image: 189 kB
Frequency: 3 images per day
Spatial Resolution: 15 km
Naming Convention:
gdi_24h_1 to gdi_24h_3

- **WRF Model - Total Accumulated Precipitation in 3 hours**



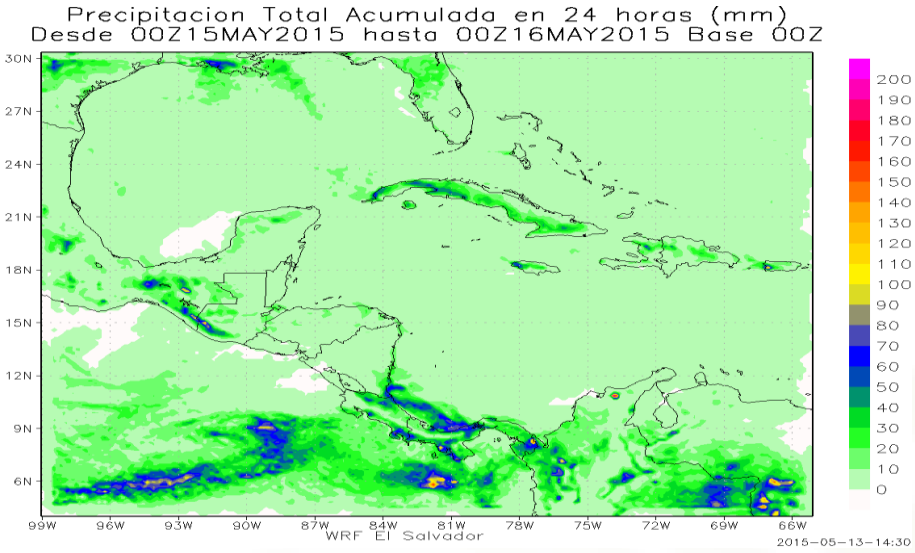
Format: JPEG
Average Size per image: 227 kB
Frequency: 22 images per day
Spatial Resolution: 15 km
Naming Convention:
pptcada3h_1 to pptcada3h_22

- **WRF Model - Total Accumulated Precipitation in 6 hours**



Format: JPEG
Average Size per image: 220 kB
Frequency: 12 images per day
Spatial Resolution: 15 km
Naming Convention:
pptcada6h_1 to pptcada6h_22

- **WRF Model - Total Accumulated Precipitation in 24 hours**

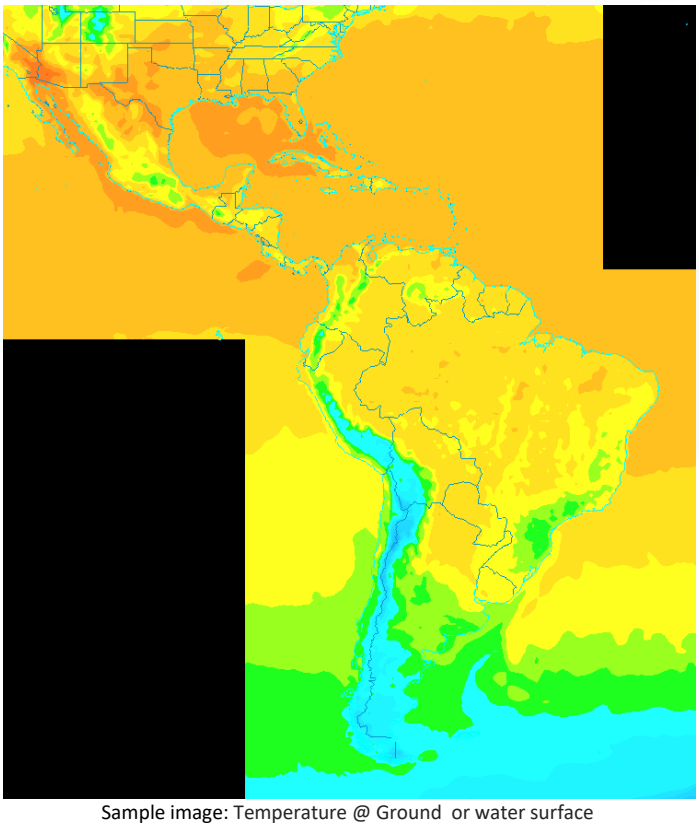


Format: JPEG
Average Size per image: 110 kB
Frequency: 3 images per day
Spatial Resolution: 15 km
Naming Convention:
ppt24h_1 to ppt24h_22

- **GFS Model - South America / Central America + Caribbean**

Format: GRIB2
Frequency: 2 cycles per day (00h and 12h), 40 files per cycle, 80 files per region (160 files per day).
Average Size, per file: 11 MB (Central America and Caribbean) / 14 MB (South America) – 2 GB per day
Spatial Resolution: 0.5 degree
Naming Convention: gfs_RRR_0p50_CC.f0FFF, Where:
RRR: Region (**crb:** Central America + Caribbean / **sam:** South America)
CC: Execution Cycle (00 and 12 UTC) | **FFF:** Forecast (0 ~ 120 h, every 3 hours)

GFS Model Field: Temperature



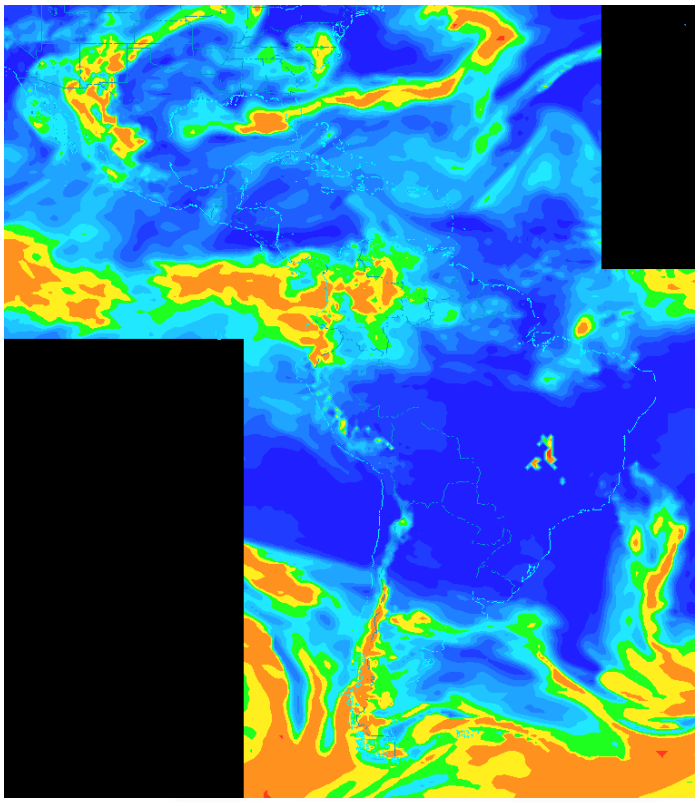
Sample image: Temperature @ Ground or water surface

Available Datasets

2D grid:
- Temperature @ Ground or water surface [C]
- Temperature @ Maximum wind level [K]
- Temperature @ Tropopause [C]
- Temperature @ Sigma level [K]
- Temperature @ Low cloud top level [K]
- Temperature @ Middle cloud top level [K]
- Temperature @ High cloud top level [K]
- Potential temperature @ Sigma level [K]
- Maximum temperature @ Specified high level above ground [K @ 2.0 m]
- Minimum temperature @ Specified high level above ground [K @ 2.0 m]
- Dewpoint temperature @ Specified height level above ground [K @ 2.0 m]
- Latent heat net flux @ Ground or water surface [W.m-2]
- Sensible heat net flux @ Ground or water surface [W.m-2]

3D grid:
- Temperature @ Isobaric surface [C @ 100000.0 Pa]
- Temperature @ Specific altitude above mean sea level [K @ 305 m]
- Temperature @ Specified height level above ground [C @ 2.0 m]
- Temperature @ Level at specified pressure difference from ground to level layer [K @ 1500 Pa]
- Temperature @ Potential vorticity surface [K @ -2E-6 K m2 kg-1 s-1]

GFS Model Field: Moisture



Sample image: Relative humidity @ Level of 0°C isotherm

Available Datasets

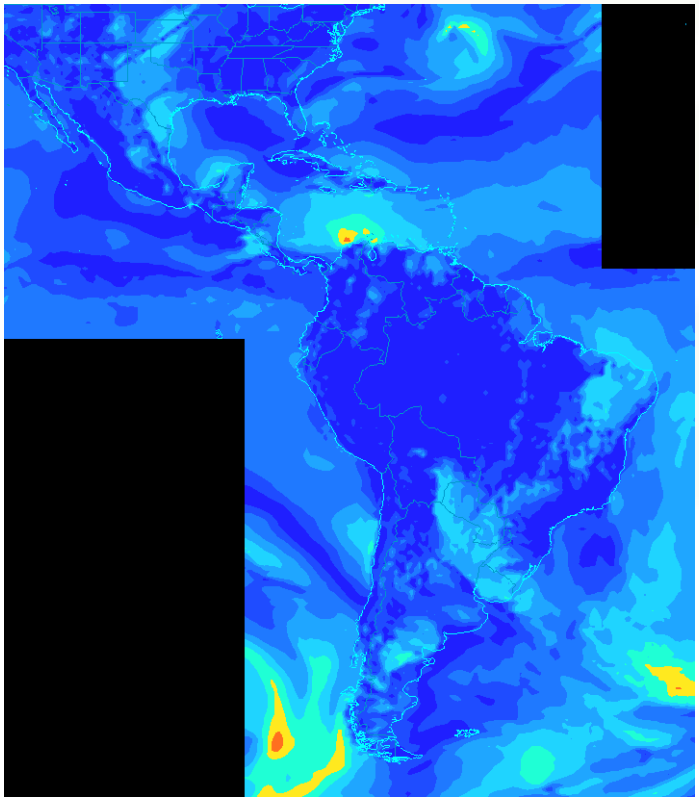
2D grid:

- Relative humidity @ Level of 0°C isotherm [%]
- Relative humidity @ Specified height level above ground [% @ 2.0 m]
- Relative humidity @ Sigma level [%]
- Relative humidity @ Entire atmosphere layer [%]
- Relative humidity @ Highest tropospheric freezing level [%]
- Precipitable water @ Entire atmosphere layer [mm]
- Precipitation rate @ Ground or water surface [mm]
- Total precipitation @ Ground or water surface [mm]
- Convective precipitation @ Ground or water surface [mm]
- Snow depth @ Ground or water surface [m]
- Water equivalent of accumulated snow depth @ Ground or water surface [kg.m-2]
- Per cent frozen precipitation @ Ground or water surface [%]
- Categorical Rain @ Ground or water surface
- Categorical Freezing Rain @ Ground or water surface
- Categorical Ice Pellets @ Ground or water surface
- Categorical Snow @ Ground or water surface
- Convective Precipitation Rate @ Ground or water surface
- Potential Evaporation Rate @ Ground or water surface [W.m-2]

3D grid:

- Specific humidity @ Isobaric surface [kg/kg @ 100000.0 Pa]
- Specific humidity @ Specified height level above ground [kg/kg @ 2.0 m]
- Specific humidity @ Level at specified pressure difference from ground to level layer [kg/kg @ 1500.0 Pa]
- Relative humidity @ Isobaric surface [% @ 100000.0 Pa]
- Relative humidity @ Sigma level layer [% @ 0.72]
- Relative humidity @ Level at specified pressure difference from ground to level layer [% @ 1500.0 Pa]

GFS Model Field: Momentum



Sample image: Wind speed (gust) @ Ground or water surface

Available Datasets

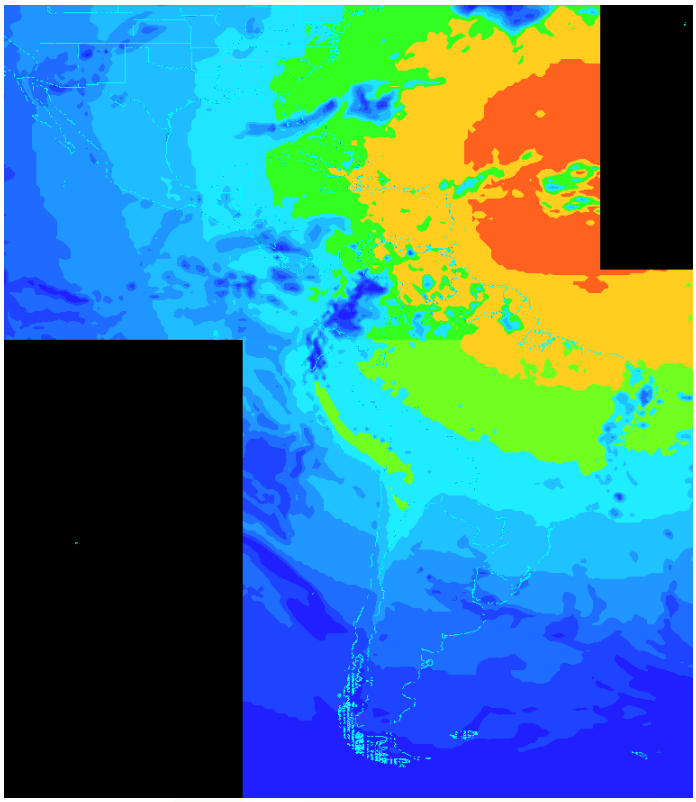
2D grid:

- u-component of wind @ Maximum wind level [m/s]
- u-component of wind @ Tropopause [m/s]
- u-component of wind @ Sigma level [m/s]
- u-component of wind @ Planetary Boundary Layer [m/s]
- v-component of wind @ Maximum wind level [m/s]
- v-component of wind @ Tropopause [m/s]
- v-component of wind @ Sigma level [m/s]
- v-component of wind @ Planetary Boundary Layer [m/s]
- Vertical velocity (pressure) @ Sigma level [Pa/s]
- Momentum flux, u-component @ Ground or water surface [N.m-2]
- Momentum flux, v-component @ Ground or water surface [N.m-2]
- Wind speed (gust) @ Ground or water surface [m/s]
- Vertical Speed Shear @ Tropopause [s-1]
- U-Component Storm Motion @ Specified height level above ground layer [m.s-1 @ 3000.0 m]
- V-Component Storm Motion @ Specified height level above ground layer [m.s-1 @ 3000.0 m]
- Ventilation Rate @ Planetary Boundary Layer [m2.s-1]

3D grid:

- u-component of wind @ Isobaric surface [m/s @ 100000 Pa]
- u-comp. of wind @ Specific altitude above mean sea level [m/s @ 305 m]
- u-component of wind @ Specified height level above ground [m/s @ 10 m]
- u-component of wind @ Level at specified pressure difference from ground to level layer [m/s @ 1500 Pa]
- u-comp. of wind @ Potential vorticity surface [m/s @ -2E-6 K m2 kg-1 s-1]
- v-component of wind @ Isobaric surface [m/s @ 100000 Pa]
- v-comp. of wind @ Specific altitude above mean sea level [m/s @ 305 m]
- v-component of wind @ Specified height level above ground [m/s @ 10 m]
- v-component of wind @ Level at specified pressure difference from ground to level layer [m/s @ 1500 Pa]
- v-comp. of wind @ Potential vorticity surface [m/s @ -2E-6 K m2 kg-1 s-1]
- Vertical velocity (pressure) @ Isobaric surface [Pa/s @ 100000 Pa]
- Absolute vorticity @ Isobaric surface [1.0E-5 s-1 @ 100000 Pa]
- Vert. Speed Shear @ Pot. vorticity surface [s-1 @ -2E-6 K m2 kg-1 s-1

GFS Model Field: Short Wave Radiation



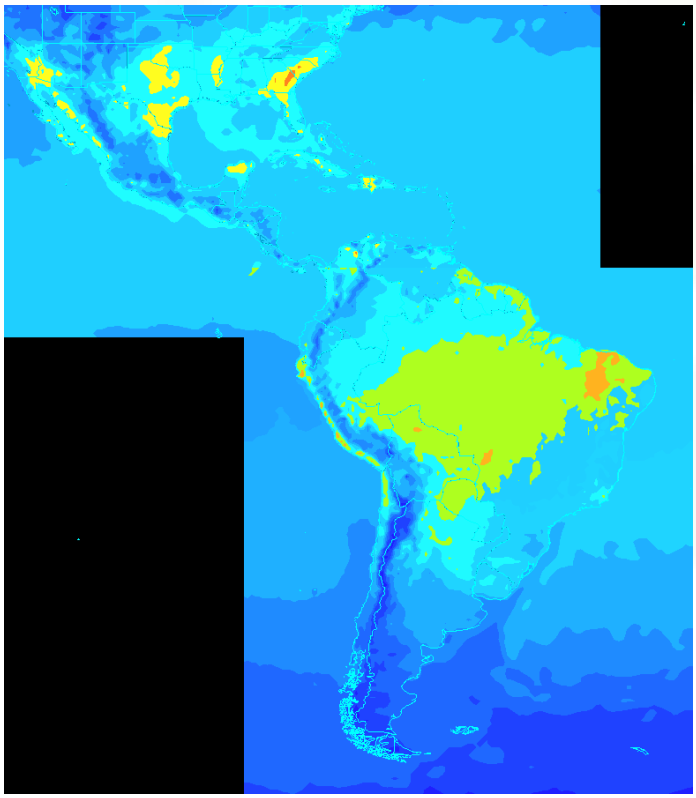
Sample image: UV-B Downward Solar Flux @ Ground or water surface

Available Datasets

2D grid:

- Downward Short-Wave Radiation Flux @ Ground or water surface [W.m-2]
- Upward Short-Wave Radiation Flux @ Ground or water surface [W.m-2]
- Upward Short-Wave Radiation Flux @ Nominal top of the atmosphere [W.m-2]
- UV-B Downward Solar Flux @ Ground or water surface [W.m-2]
- Clear Sky UV-B Downward Solar Flux @ Ground or water surface [W.m-2]

GFS Model Field: Long Wave Radiation



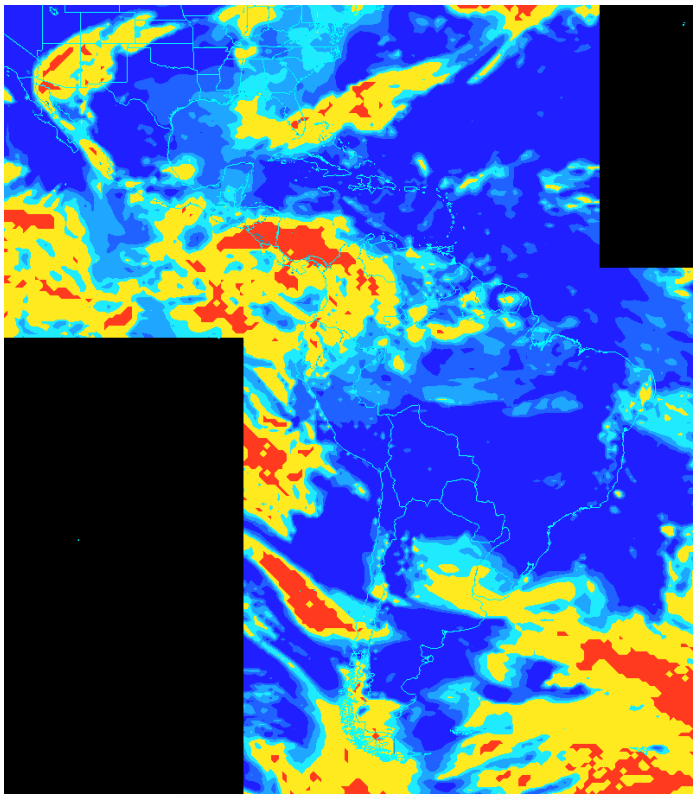
Sample image: Upward Long-Wave Rad. Flux @ Nominal top of the atmosphere

Available Datasets

2D grid:

- Downward Long-Wave Radiation Flux @ Ground or water surface [W.m-2]
- Upward Long-Wave Radiation Flux @ Ground or water surface [W.m-2]
- Upward Long-Wave Radiation Flux @ Nominal top of the atmosphere [W.m-2]

GFS Model Field: Cloud



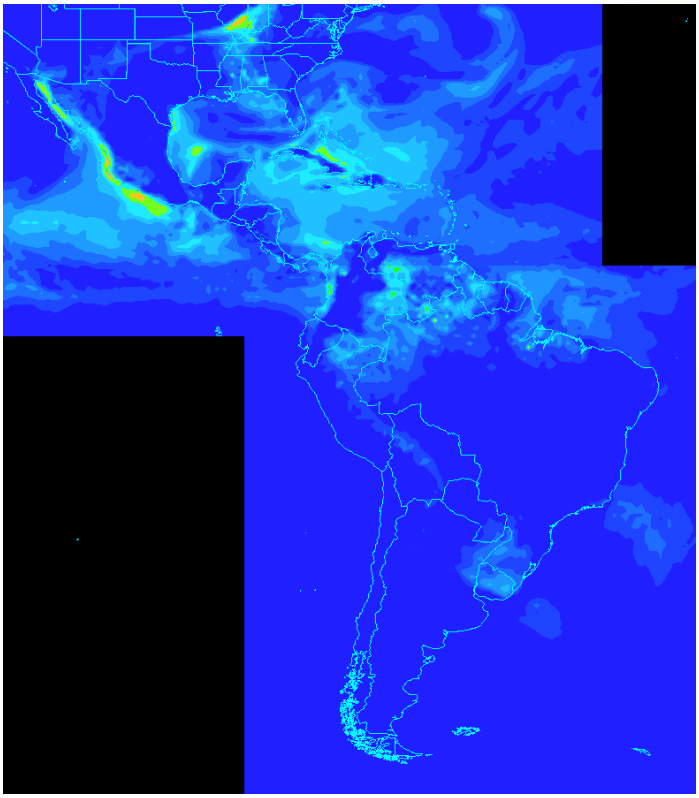
Sample image: Upward Long-Wave Rad. Flux @ Nominal top of the atmosphere

Available Datasets

2D grid:

- Total cloud cover @ Entire atmosphere [%]
- Total cloud cover @ Boundary layer cloud layer [%]
- Total cloud cover @ Low cloud layer [%]
- Total cloud cover @ Middle cloud layer [%]
- Total cloud cover @ High cloud layer [%]
- Total cloud cover @ Convective cloud layer [%]
- Cloud water @ Entire atmosphere layer [kg.m-2]
- Cloud Work Function @ entire atmosphere layer [J.kg-1]
- Sunshine Duration @ Ground or water surface [s]

GFS Model Field: Thermodynamic Stability Indices



Sample image: Convective available potential energy @ Ground or water surface

Available Datasets

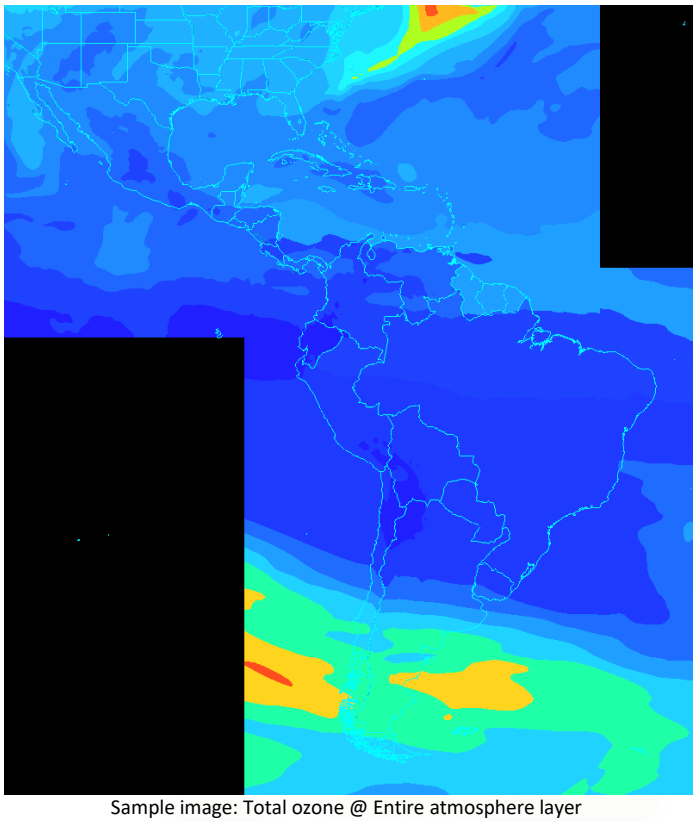
2D grid:

- Convective available potential energy @ Ground or water surface [J/kg]
- Convective inhibition @ Ground or water surface [J/kg]
- Storm relative helicity @ Specified height level above ground layer [K/kg @ 1500 m]
- Surface Lifted Index @ Ground or water surface [K]
- Best (4 layer) Lifted Index @ Ground or water surface [K]

3D grid:

- Convective available potential energy @ Level at specified pressure difference from ground to level layer [J/kg @ 9000 Pa]
- Convective inhibition @ Level at specified pressure difference from ground to level layer [J/kg @ 9000 Pa]

GFS Model Field: Trace Gases



Sample image: Total ozone @ Entire atmosphere layer

Available Datasets

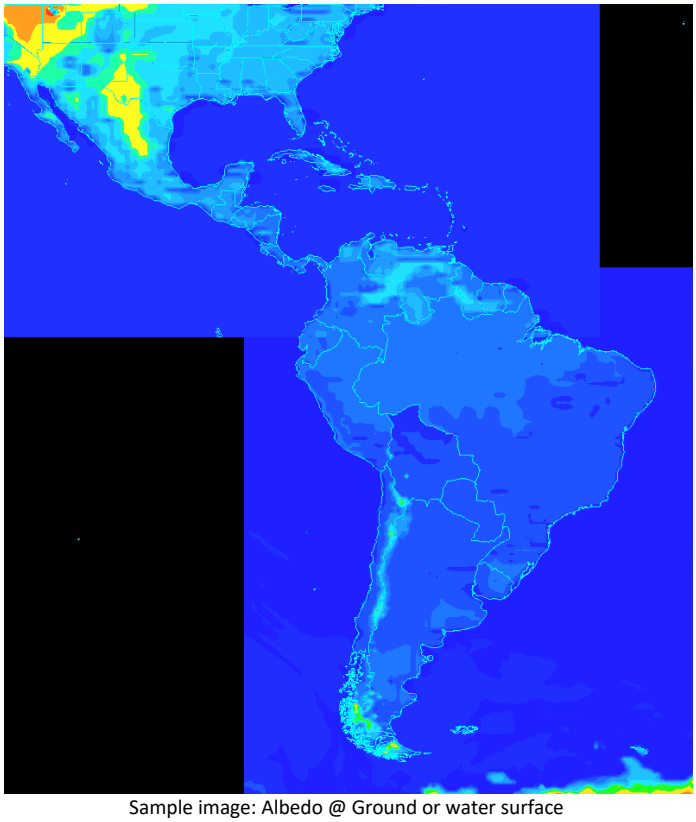
2D grid:

- Total ozone @ Entire atmosphere layer [DU]

3D grid:

- Ozone Mixing Ratio @ Isobaric surface [kg.kg-1 @ 40000 Pa]

GFS Model Field: Physical Atmospheric Properties



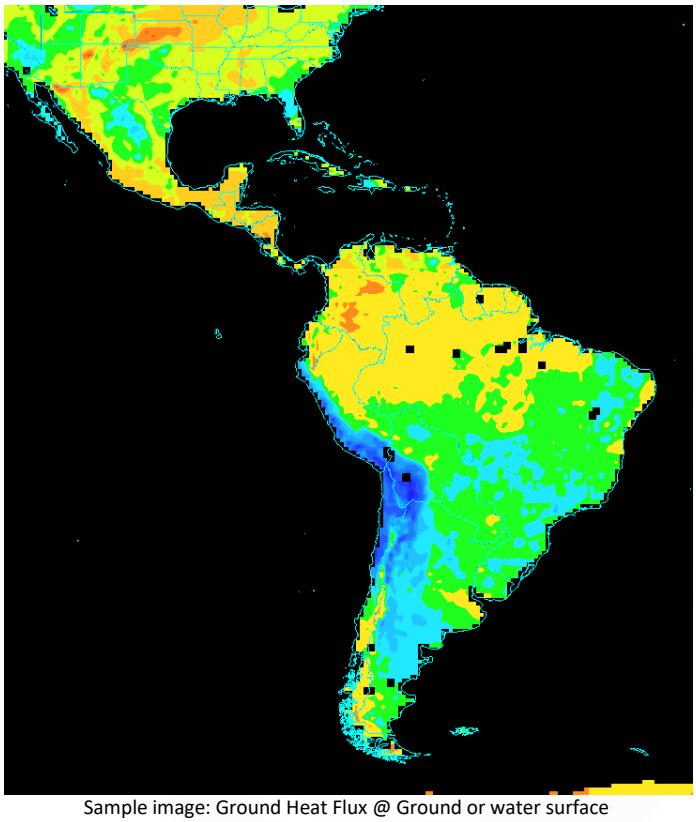
Sample image: Albedo @ Ground or water surface

Available Datasets

2D grid:

- Albedo @ Ground or water surface [%]

GFS Model Field: Vegetation / Biomass



Sample image: Ground Heat Flux @ Ground or water surface

Available Datasets

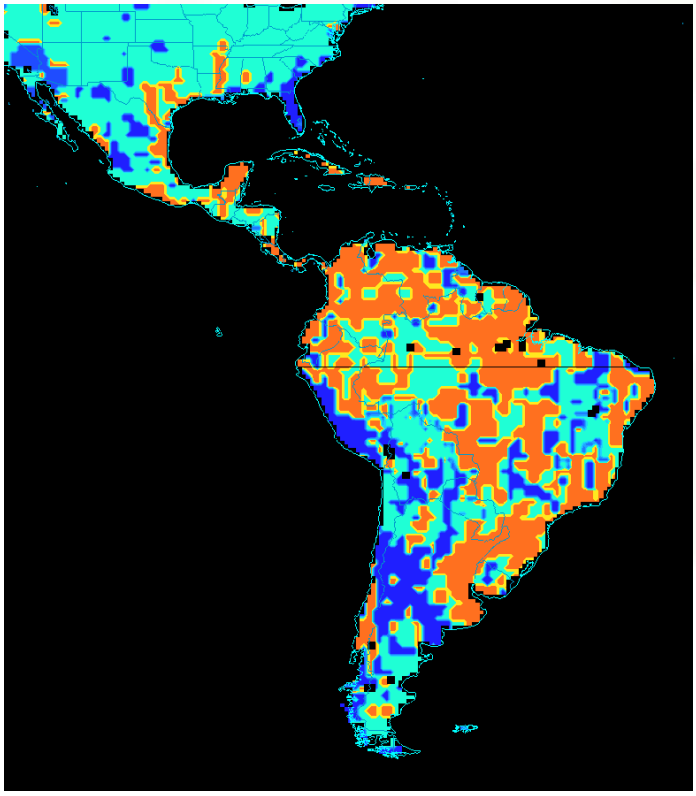
2D grid:

- Land cover (0 = sea, 1 = land) @ Ground or water surface
- Water runoff @ Ground or water surface [kg.m-2]
- Ground Heat Flux @ Ground or water surface [W.m-2]
- Plant Canopy Surface Water @ Ground or water surface [kg.m-2]
- Wilting Point @ Ground or water surface

3D grid:

- Soil temperature @ Depth below land surface layer [K @ 1,5 –1.0m]
- Volumetric Soil Moisture Content @ Depth below land surface layer [1,5 –1.0m]

GFS Model Field: Soil



Sample image: Field Capacity @ Ground or water surface

Available Datasets

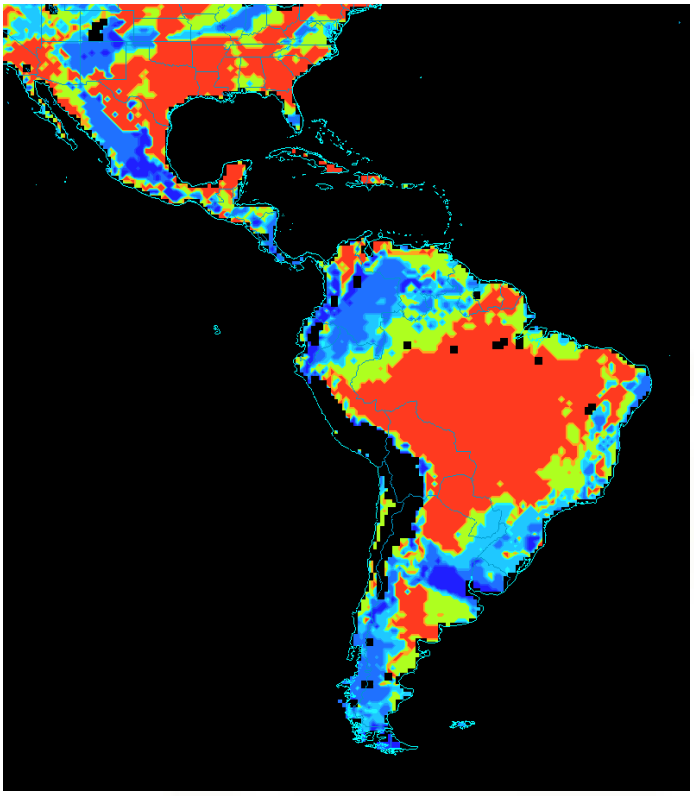
2D grid:

- Field Capacity @ Ground or water surface

3D grid:

- Liquid Volumetric Soil Moisture (non Frozen) @ Depth below land surface layer [1,5 –1.0m]

GFS Model Field: Fire Weather



Sample image: Haines Index @ Ground or water surface

Available Datasets

2D grid:

- Haines Index @ Ground or water surface

GFS Model Field: Ice

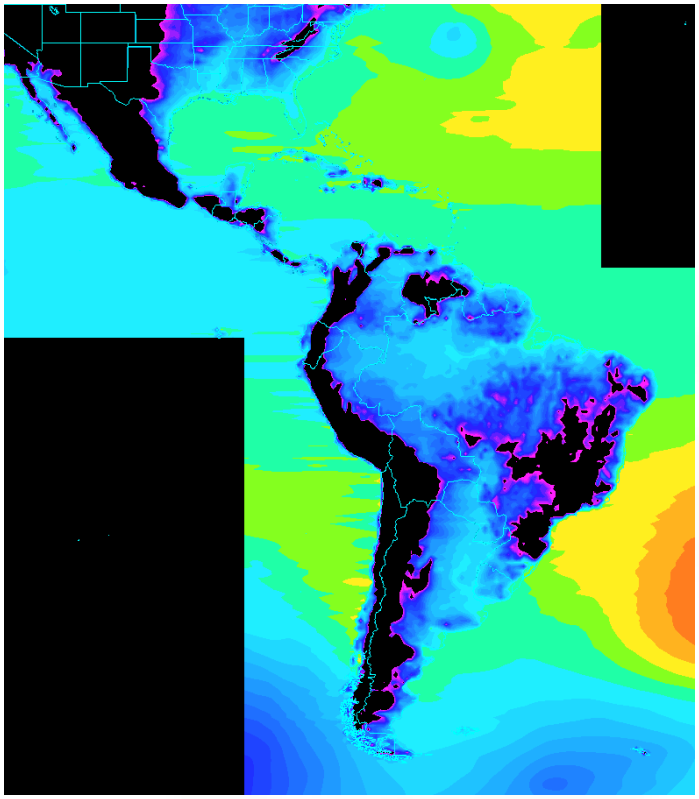
Sample image: Ice cover @ Ground or water surface

Available Datasets

2D grid:

- Ice cover @ Ground or water surface
- Ice thickness @ Ground or water surface [m]

GFS Model Field: Mass



Sample image: Pressure @ Ground or water surface

Available Datasets

2D grid:

- Pressure @ Ground or water surface [hPa]
- Pressure @ Maximum wind level [Pa]
- Pressure @ Tropopause [Pa]
- Pressure @ Specified height level above ground [Pa @ 80 m]
- Pressure @ Low cloud bottom level [Pa]
- Pressure @ Low cloud top level [Pa]
- Pressure @ Middle cloud bottom level [Pa]
- Pressure @ Middle cloud top level [Pa]
- Pressure @ High cloud bottom level [Pa]
- Pressure @ High cloud top level [Pa]
- Pressure @ Convective cloud bottom level [Pa]
- Pressure @ Convective cloud top level [Pa]
- Pressure reduced to MSL @ Mean sea level [hPa]
- ICAO Standard Atmosphere Reference Height @ Maximum wind level [m]
- ICAO Standard Atmosphere Reference Height @ Tropopause [m]
- Geopotential height @ Ground or water surface [gpm]
- Geopotential height @ Level of 0°C isotherm [gpm]
- Geopotential height @ Maximum wind level [gpm]
- Geopotential height @ Tropopause [gpm]
- Geopotential height @ Highest tropospheric freezing level [gpm]
- MSLP (Eta model reduction) @ Mean sea level [hPa]
- 5-Wave Geopotential Height @Isobaric surface [gpm @ 50000 Pa]
- Zonal Flux of Gravity Wave Stress @ Ground or water surface [N.m-2]
- Meridional Flux of Gravity Wave Stress @ Ground or water surface [N.m-2]
- Planetary Boundary Layer Height @ Ground or water surface [m]
- Pressure of level from which parcel was lifted @ Level at specified pressure difference from ground to level layer [Pa @ 12750 Pa]

3D grid:

- Pressure @ Potential vorticity surface [Pa @ -2E-6 K m2 kg-1 s-1]
- Geopotential height @ Isobaric surface [gpm @ 100000 Pa]
- Geopotential height @ Pot. vorticity surface [Pa @ -2E-6 K m2 kg-1 s-1]

PROVIDER: NOAA-NWS

(National Oceanic and Atmospheric Administration – National Weather Service - USA)
"International Services and Communication Systems" (ISCS) Activity

Channel: ISCS-ADMIN

Content: Meteorological Notifications, Text Message Notices and Warning Related Notices

Format: TXT
Average Size per product: 8.23 kB **/** 0.0080 MB
Frequency: 1 file every minute
Max n° of files a day: 798
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin
"_BBB" appears only when the product contains the addition, correction or amendment

T1T2:

- **NO** Notices - METNO/WIFMA
- **NT** Notices - TEST MSG [System related]
- **NW** Notices - Warning related and/or cancellation

Channel: ISCS-ANLZ-CLIMATE

Content: Weather Summaries, Analyses and Climatic Data

Format: TXT
Average Size per image: 0.36 kB / 0.0004 MB
Frequency: 1 file every 11.07 minutes
Max n° of files a day: 130
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
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mm = Minute (00-59)
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T1T2:

- **AB** Weather Summaries
- **AC** Analysis - Cyclone
- **AH** Analysis - Thickness
- **AS** Analysis - Surface
- **AW** Analysis - Weather summary
- **AX** Analysis - Miscellaneous
- **BM** ?????
- **CD** ?????
- **CS** Climatic data - Monthly means (surface)
- **CU** Climatic data - Monthly means (upper air)
- **CX** ?????

Channel: ISCS-BUFR

Content: Atmospheric and Oceanographic Observations and Forecasts

Format: Binary Universal Form for the Representation of meteorological data (BUFR) format [FM 94 BUFR]
Average Size per image: 4.43 kB / 0.0043 MB
Frequency: 1 file every 2.33 minutes
Max n° of files a day: 618
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin;
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T1T2:
- **IM** ?????
- **IO** Binary observation - BUFR - Oceanographic/Limnographic (water properties)
- **IU** Binary observation - BUFR - Upper air
- **JU** Forecast Information - BUFR - Upper air

Channel: ISCS-FCAST

Content: Forecast Products

Format: TXT
Average Size per image: 0.51kB / 0.0005 MB
Frequency: 1 file every 0.2 minutes
Max n° of files a day: 7044
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin;
"_BBB" appears only when the product contains the addition, correction or amendment

T1T2:
- **FA** Forecast - Aviation area/GAMET/advisories
- **FB** Forecast - Upper winds & temperatures
- **FC** Forecast - Aerodrome (VT > 12 hours)
- **FK** Forecast - Tropical cyclone advisories
- **FO** Forecast - Guidance
- **FP** Forecast - Public
- **FQ** Forecast - Other shipping
- **FR** Forecast - Aviation route
- **FS** Forecast - Surface
- **FT** Forecast - Aerodrome (VT > 12 hours)
- **FU** Forecast - Upper air
- **FV** Forecast - Volcanic ash advisories
- **FX** Forecast - Miscellaneous
- **FZ** Forecast - Shipping area

Channel: ISCS-GRIB1

Content: GRIB1 Format Model Output

Format: GRIdded Binary edition 1 (GRIB1)
Average Size per image: 4.47 kB / 0.0044 MB
Frequency: 1 file every 0.062 minutes
Max n° of files a day: 23,254
Naming Convention:
yyyymmdd_hhmmfzz[z]

Where:

yyyy = Year
mm = Month
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)

For GRIB1, zz[z] is the forecast hours of: 00, 06, 12, 18, 24, 30, 36, 42, 48, 60, 72, 84, 96, 108, 120, 132, 144, and 168.

T1T2:

- **HE** Grid point information (GRIB) - Precipitation
- **HG** Grid point information (GRIB) - Divergence
- **HH** Grid point information (GRIB) - Height
- **HO** Grid point information (GRIB) - Vertical velocity
- **HP** Grid point information (GRIB) - Pressure
- **HR** Grid point information (GRIB) - Relative humidity
- **HT** Grid point information (GRIB) - Temperature
- **HU** Grid point information (GRIB) - Eastward wind component
- **HV** Grid point information (GRIB) - Northward wind component

Channel: ISCS-GRIB2

Content: GRIB1 Format Model Output

Format: GRIdded Binary Edition 2 (GRIB2)
Average Size per image: 59.00 kB / 0.0576 MB
Frequency: 1 file every 0.145 minutes
Max n° of files a day: 9,948
Resolution: 1 degree
Naming Convention:
YYYYMMDD_tttt"f"nn".grib2.rmtn"

Where:

YYYYMMDD = Year, Month and Day of the NCEP model run
tttt = time of the model run (0000, 0600, 1200 or 1800)
nn = forecast hour
Example: 20150407_0600f00.grib2.rmtn

T1T2:

- **YH** GRIB regional use - Height
- **YR** GRIB regional use - Relative humidity
- **YT** GRIB regional use - Temperature
- **YU** GRIB regional use - Eastward wind component
- **YV** GRIB regional use - Northward wind component

Note: See ISCS GRIB2 Product Headers (4/15/2015) at:
http://www.nws.noaa.gov/iscs/Documents/ISCS-GRIB2-Product-Header-Table_r150727-1408.xlsx

Channel: ISCS-PIC

Content: Multiple graphic format products.

Format: BUFR, Binary, ?????
Average Size per image: 55.76 kB / 0.0545 MB
Frequency: 1file every 1.97 minutes
Max n° of files a day: 728
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin;
"_BBB" appears only when the product contains the addition, correction or amendment

T1T2:

- **PA** Pictorial information(BUFR/binary) - Radar data
- **PB** Pictorial information(binary) - Cloud
- **PC** Pictorial information(binary) - Clear Air turbulence
- **PF** Pictorial information(binary) - Aerological diagrams (ash clouds)
- **PG** Pictorial information(binary) - Significant weather
- **PH** Pictorial information(binary) - Height
- **PJ** Pictorial information(binary) - Wave height + combinations
- **PM** Pictorial information(binary) - For national use
- **PP** Pictorial information(binary) - Pressure
- **PT** Pictorial information(binary) - Temperature
- **PU** Pictorial information(binary) - Eastward wind component
- **PV** Pictorial information(binary) - Northward wind component
- **PW** Pictorial information(binary) - Wind
- **PY** Pictorial information(binary) - Observational plot chart
- **QA** Pictorial information regional - Radar data
- **QH** Pictorial information regional - Height
- **QP** Pictorial information regional - Pressure
- **QU** Pictorial information regional - Eastward wind component
- **QW** Pictorial information regional – Wind

Channel: ISCS-SAT

Content: Multiple graphic format products.

Format: TXT
Average Size per image: 59.04 kB / 0.0577 MB
Frequency: 1 file every 3.82 minutes
Max n° of files a day: 376
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin;
"_BBB" appears only when the product contains the addition, correction or amendment

T1T2:

- **FA** Forecast - Aviation area/GAMET/advisories
- **FB** Forecast - Upper winds & temperatures
- **FC** Forecast - Aerodrome (VT > 12 hours)
- **FK** Forecast - Tropical cyclone advisories
- **FO** Forecast - Guidance
- **FP** Forecast - Public
- **FQ** Forecast - Other shipping
- **FR** Forecast - Aviation route
- **FS** Forecast - Surface
- **FT** Forecast - Aerodrome (VT > 12 hours)
- **FU** Forecast - Upper air
- **FV** Forecast - Volcanic ash advisories
- **FX** Forecast - Miscellaneous
- **FZ** Forecast - Shipping area

Channel: ISCS-SURFACE

Content: Observations land and oceanographic

Format: TXT
Average Size per image: 1.00 kB / 0.0010 MB
Frequency: 1 file every 0.036 minutes
Max n° of files a day: 42,157
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin;
"_BBB" appears only when the product contains the addition, correction or amendment

T1T2:

- **SA** Surface data - Aviation routine reports
- **SD** Surface data - Radar reports (parts A & B)
- **SE** Surface data - Seismic data
- **SI** Surface data - Intermediate synoptic hour
- **SM** Surface data - Main synoptic hour
- **SN** Surface data - Non-standard synoptic hour
- **SO** Surface data - Oceanographic data
- **SP** Surface data - Special aviation weather reports
- **SS** Surface data - Drifting buoy reports
- **SX** Surface data – Miscellaneous

Channel: ISCS-UPPER AIR

Content: Observations Upper air; atmosphere

Format: TXT
Average Size per image: 0.27 / 0.0003 MB
Frequency: 1 file every 0.14 minutes
Max n° of files a day: 10,417
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin;
"_BBB" appears only when the product contains the addition, correction or amendment

T1T2:

- **UA** Upper-air data - Aircraft reports
- **UD** Upper-air data - Aircraft reports
- **UE** Upper-air data - Upper-level pressure, temperature, humidity & wind (Part D**)**
- **UF** Upper-air data - Upper-level pressure, tempeature, humidity & wind (Parts C & D)
- **UG** Upper-air data - Upper-wind (Part B)
- **UH** Upper-air data - Upper-wind (Part C)
- **UJ** Upper air data – Radiosonde Data- US
- **UK** Upper-air data - Upper-level pressure, temperature, humidity & wind (Part B)
- **UL** Upper-air data - Upper-level pressure, temperature, humidity & wind (Part C)
- **UM** Upper-air data - Upper-level pressure, temperature, humidity & wind (Parts A & B)
- **UP** Upper-air data - Upper-wind (Part A)
- **UQ** Upper-air data - Upper-wind (Part D)
- **UR** Upper-air data - Aircraft reports
- **US** Upper-air data - Upper-level pressure, temperature, humidity & wind (Part A)
- **UX** Upper-air data - Miscellaneous
- **UZ** Upper-air data - Upper-level pressure, temperature, humidity & wind from a sonde released by carrier balloon or aircraft (Parts A,B,C,D)

Channel: ISCS-WARNING

Content: Warning, AIRMETs and SIGMETs

Format: TXT
Average Size per image: 0.52 kB / 0.0005 MB
Frequency: 1 file every 1.74 minutes
Max n° of files a day: 823
Naming Convention:
T1T2 A1A2ii_CCCC_ddhhmm[_BBB]

Where:
T1T2 A1A2ii = WMO data designators.
CCCC = International four-letter location indicator of the station or center originating or compiling the bulletin
yyyy = Year
dd = Numeric day of the month
hh = Hour (00-23)
mm = Minute (00-59)
BBB = Indicator of an addition, a correction or an amendment to an existing bulletin;
"_BBB" appears only when the product contains the addition, correction or amendment

T1T2:

- **SE** Surface data - Seismic data
- **NW** Notices - Warning related and/or cancellation
- **WA** Warnings - Airmet
- **WB**
- **WC** Warnings - Tropical cyclone (SIGMET)
- **WD**
- **WE** Warnings - Tsunami
- **WF** Warnings - Tornado
- **WG** Warnings - Hydrological/river flood
- **WH** Warnings - Marine/coastal flood
- **WN**
- **WO** Warnings - Other
- **WP**
- **WR** Warnings – Flash flood
- **WS** Warnings - SIGMET
- **WT** Warnings - Tropical cyclone (typhoon/hurricane)
- **WU** Warnings - Severe thunderstorm
- **WV** Warnings - Volcanic ash clouds (SIGMET)
- **WW** Warnings - Warnings & weather summary
- **WX**
- **WY**