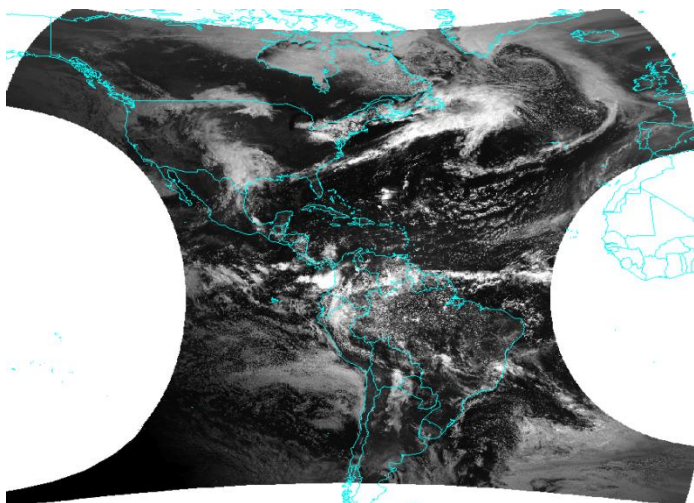


PROVIDER: NOAA-NESDIS

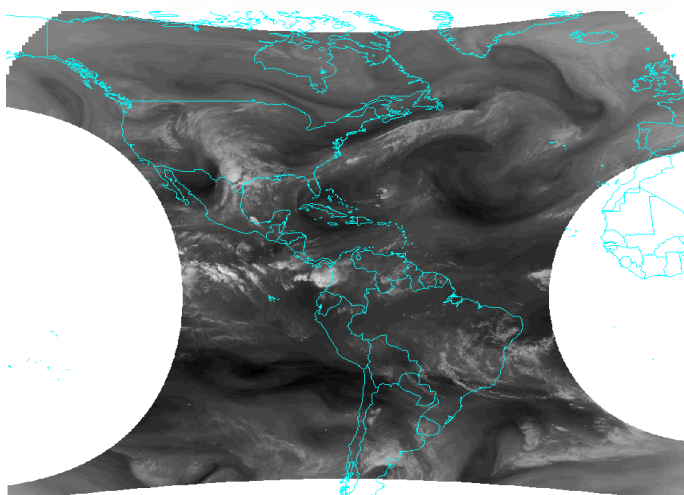
(National Oceanic and Atmospheric Administration – NOAA Satellite and Information Service - USA)

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



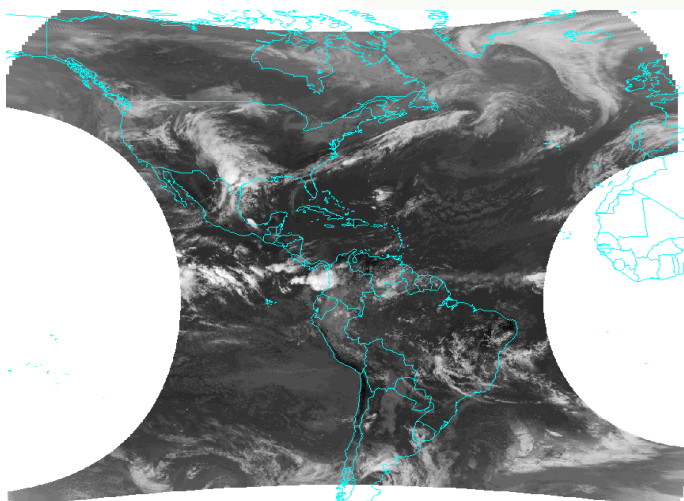
SDR ID#: 1
Format: GeoTIFF
Average Sizes: 93.40 MB (Northern) / 37.90 MB (South)
Frequency: 30 minutes
Max n° of files a day: 48 per sector
GeoTIFF pixel info: Albedo x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 μm , cent. at 0.63 μm
Projection: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

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



SDR ID#: 1
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

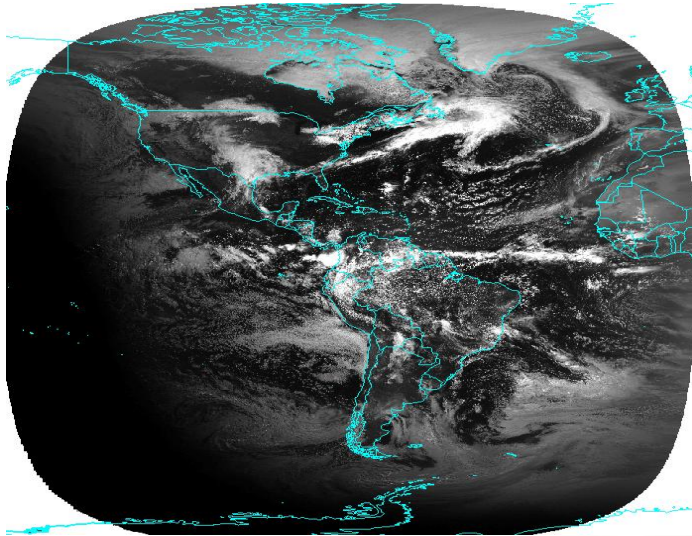
- GOES-13 – Northern Hemisphere Extended / Southern Hemisphere – Infrared Channel



SDR ID#: 1
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. 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

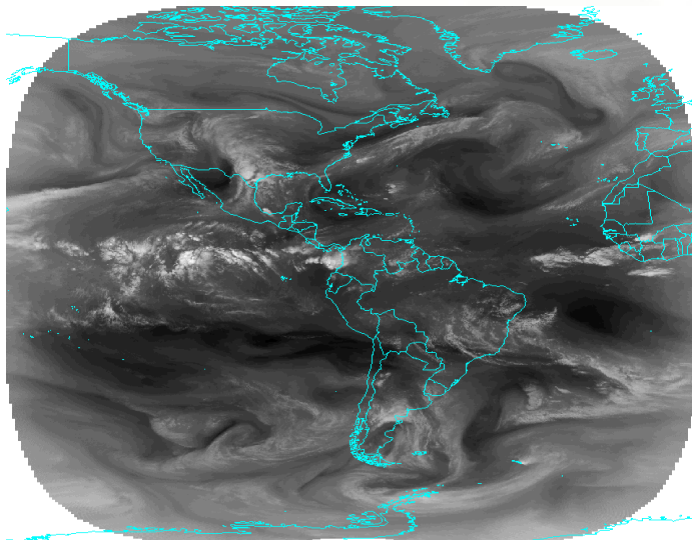


• **GOES-13 – Full-Disk – Visible Channel**



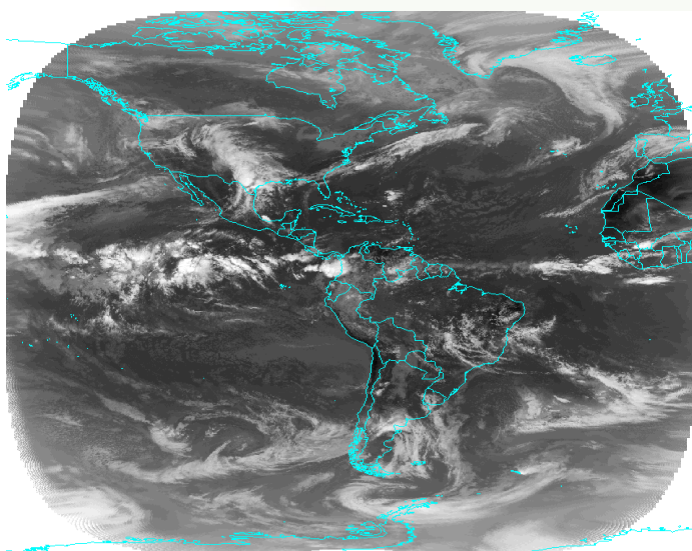
SDR ID#: 4
Format: GeoTIFF
Average Size: 103 MB
Frequency: 3 hours
Max n° of files a day: 5 (daylight only)
GeoTIFF pixel info: Albedo x 10
No image pixel value: 0
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 μm , cent. at 0.63 μm
Projection: Rectangular
Resolution: 1 x 1 km
Naming Convention:
 GoesEastFD01VjjjHHMM

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



SDR ID#: 4
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

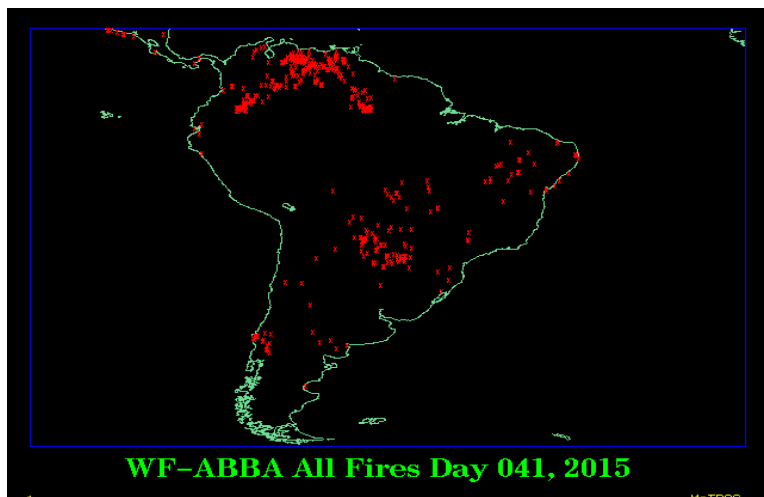
• **GOES-13 – Full-Disk – Infrared Channel**



SDR ID#: 4
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

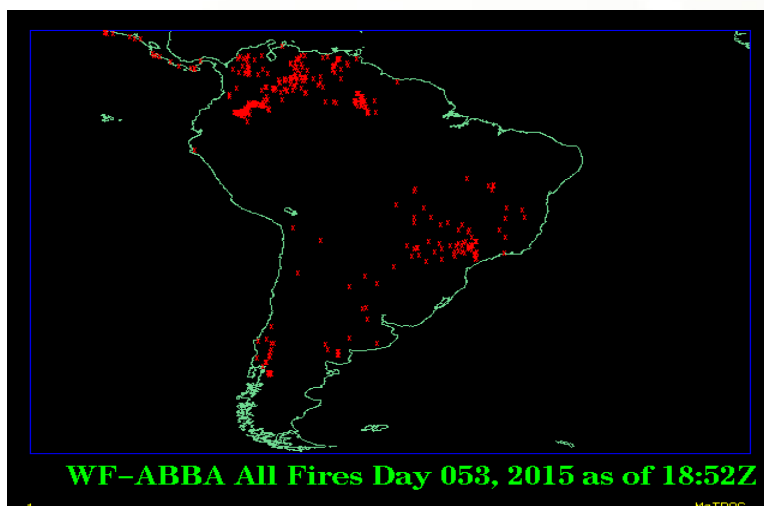


- Automated Biomass Burning Algorithm - ABBA - Accumulated Daily - South America



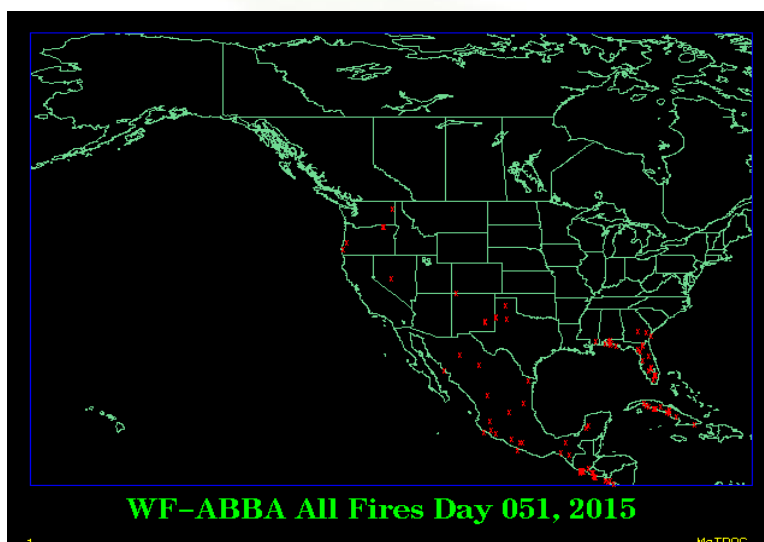
SDR ID#: 26
Format: GIF
Average Size: 9 kB
Frequency: 1 per day
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1, 2 and 4
Wavelengths: 0.63, 3.90 and 10.70 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 abba24shr

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



SDR ID#: 26
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:
 abba24shr

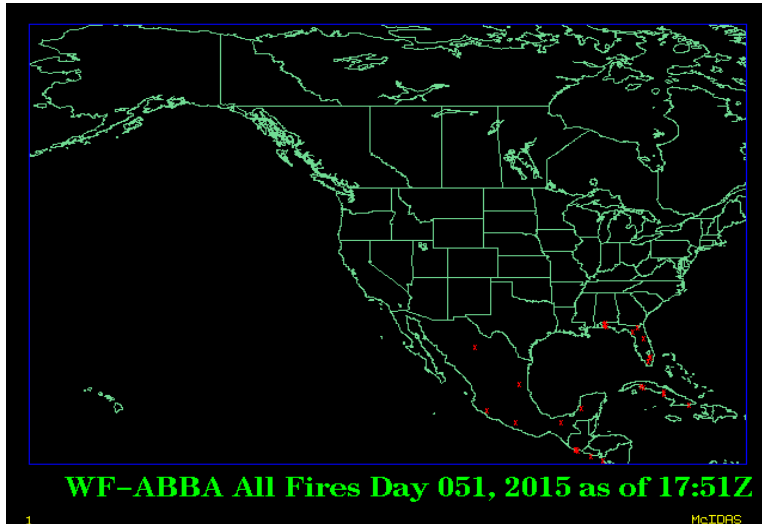
- Automated Biomass Burning Algorithm - ABBA - Accumulated Daily - North America



SDR ID#: 26
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

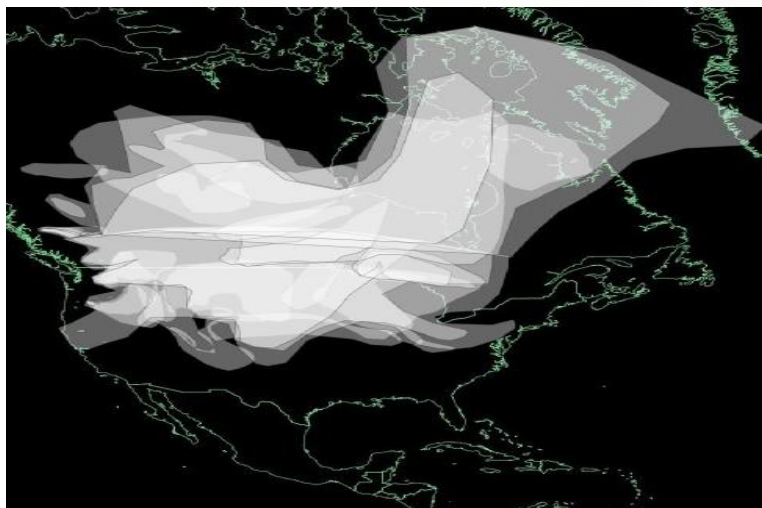


• **Automated Biomass Burning Algorithm - ABBA - Current - North America**



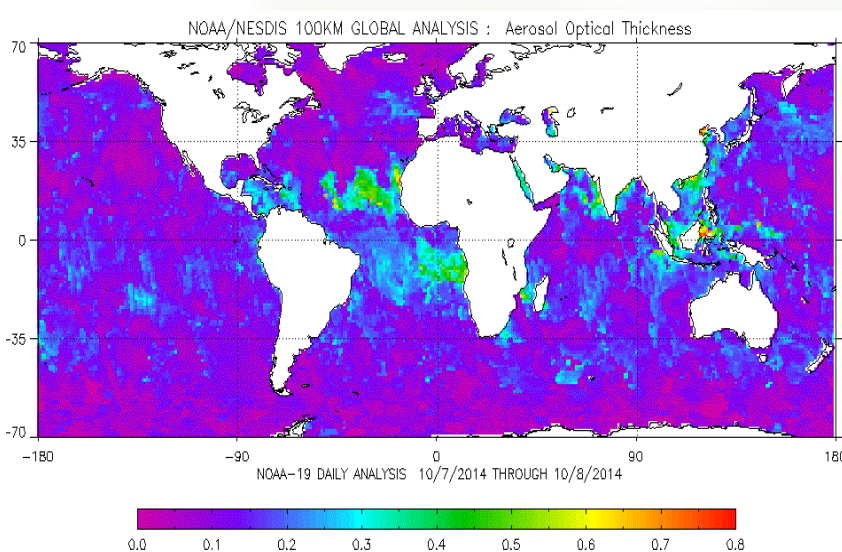
SDR ID#: 26
Format: GIF
Average Size: 12 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1, 2 and 4
Wavelengths: 0.63, 3.90 and 10.70 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention: abbacurrent

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



SDR ID#: 27a
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

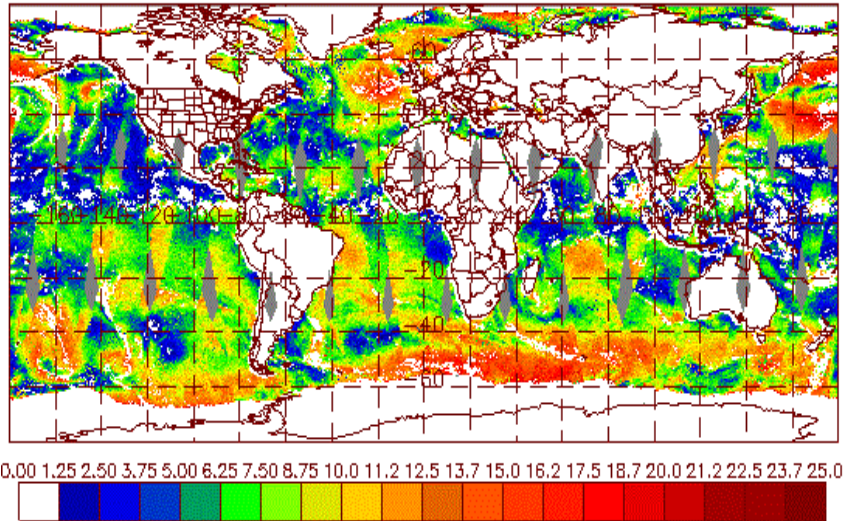
• **NOAA-19 - Aerosol Optical Thickness Daily Analyzed Field - Global**



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

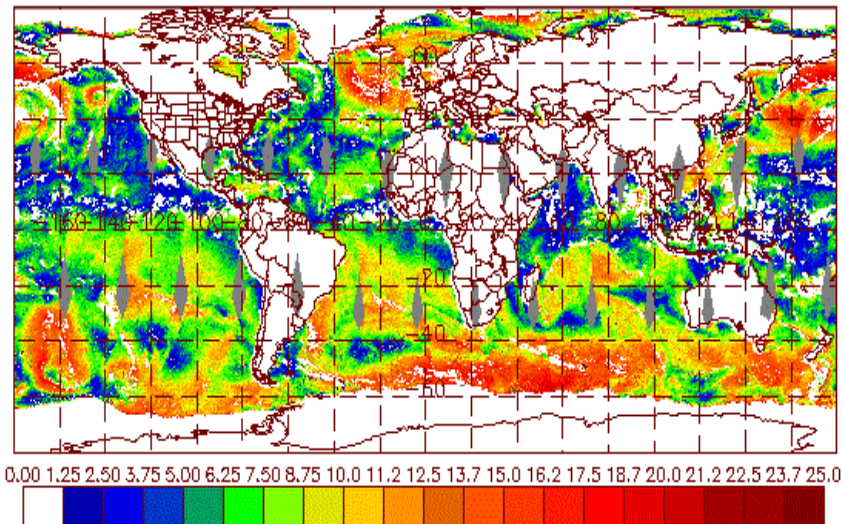


• **DMSP - F16 SSM/IS EDR - Ocean Surface Wind Speed - Global**



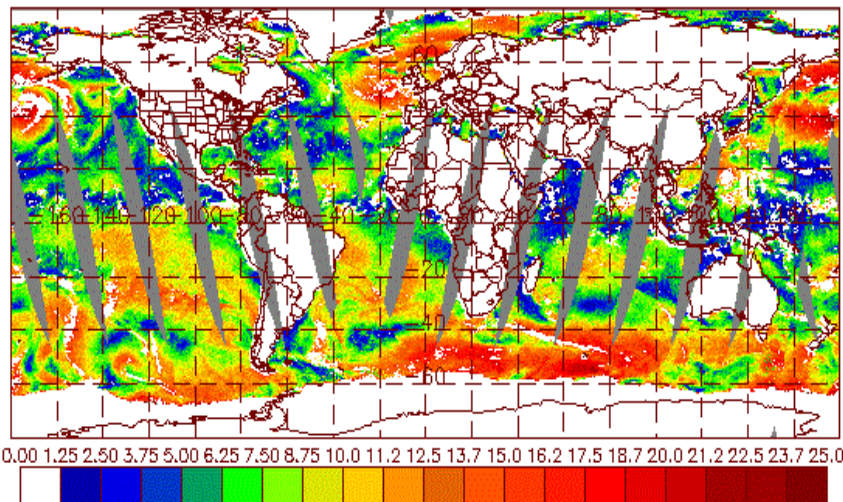
SDR ID#: 11 / 43
Format: BUFR
Average Size: 1.8 MB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: DMSP (F16)
Instrument: SSM/IS
Naming Convention:
 NPR.EDEB.SA.D14274.S0001.E0145.
 B5650910.NS

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



SDR ID#: 11 / 43
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

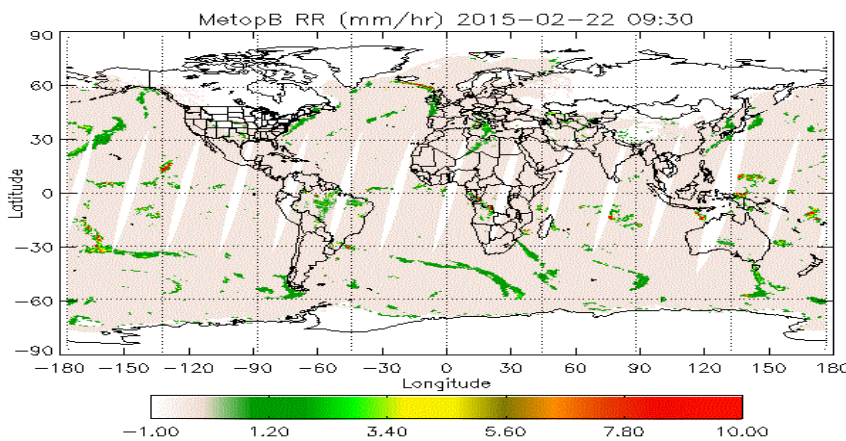
• **DMSP - F18 SSM/IS EDR - Ocean Surface Wind Speed - Global**



SDR ID#: 11 / 43
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

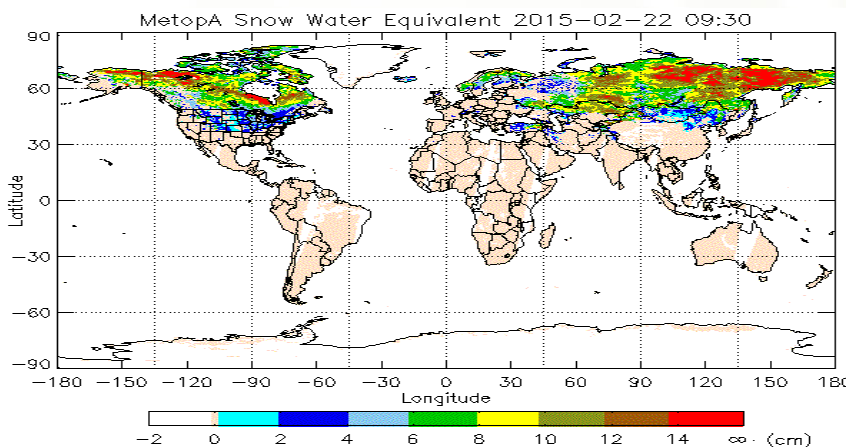


- **Metop-B - MSPPS MHS - Orbital Products – Global** (*Rain Rate, Ice Water Path, Snow Water Equivalent and Snow Fall Rate*)



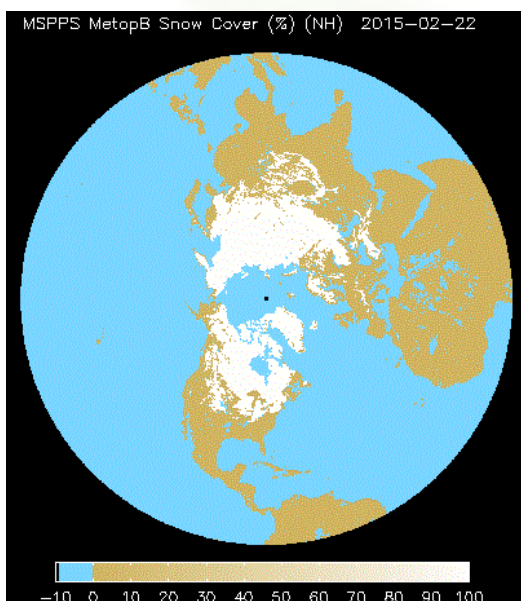
SDR ID#: 18 / 22 / 48
Format: HDF-EOS
Average Size: 2.0 MB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: Metop-B
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention:
 NPR.MHOP.M1.D14203.S1308.E1403.
 B0955960.NS

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



SDR ID#: 18 / 22 / 48
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

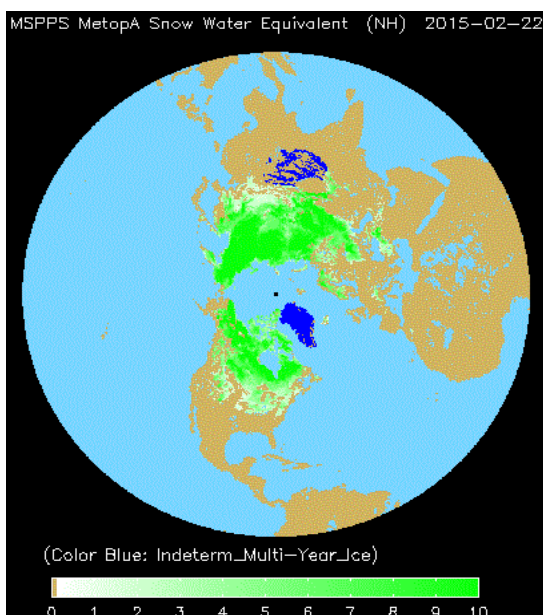
Metop-B - MSPPS MHS - Orbital Products - Polar Stereographic – Northern and Southern Hemisphere (*Snow and Snow Water Equivalent*)



SDR ID#: 48
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

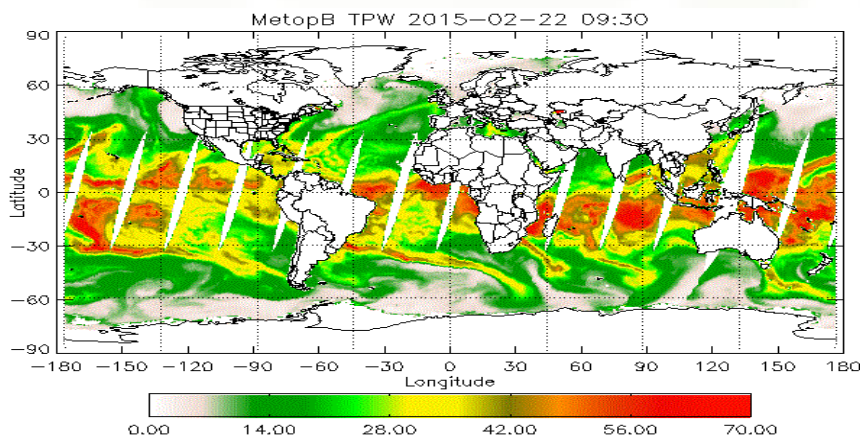


- **Metop-A - MSPPS MHS - Orbital Products - Polar Stereographic – Northern and Southern Hemisphere**
(Snow and Snow Water Equivalent)



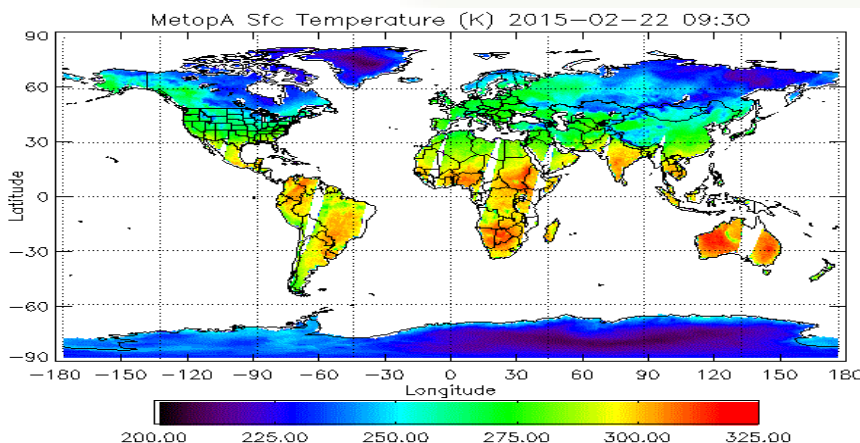
SDR ID#: 48
Format: HDF-EOS
Average Size: 9.2 MB
Frequency: Daily
Satellite: Metop-A
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention:
 NPR.MHMP.M2.D14203

- **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)



SDR ID#: 18 / 23 / 41
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

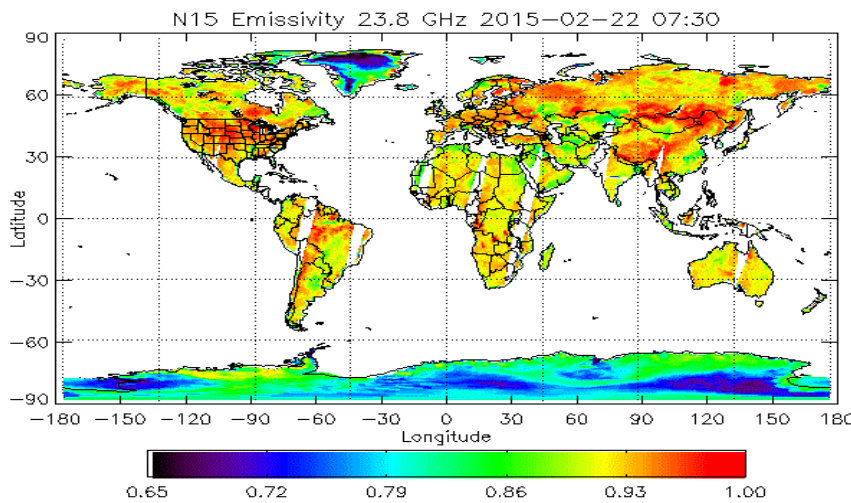
- **Metop-A - MSPPS AMSU-A Daily Products – Global** (Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)



SDR ID#: 18 / 23 / 41
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

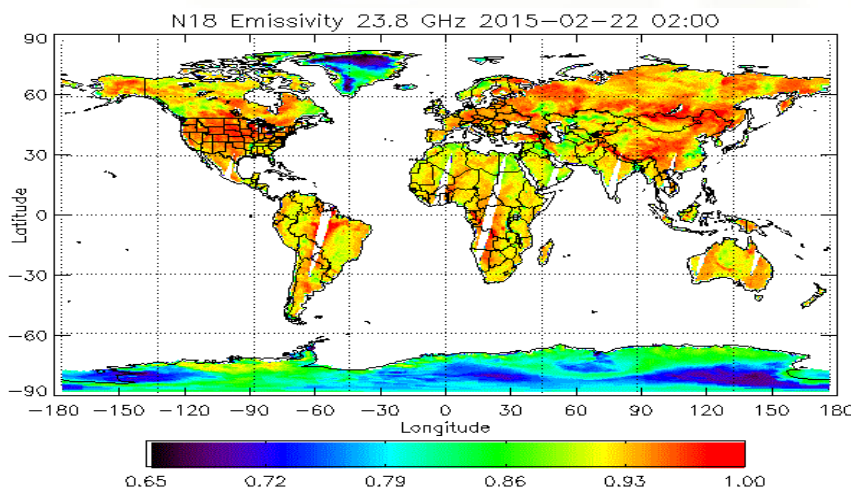


- **NOAA-15 - MSPPS AMSU-A Daily Products – Global** *(Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)*



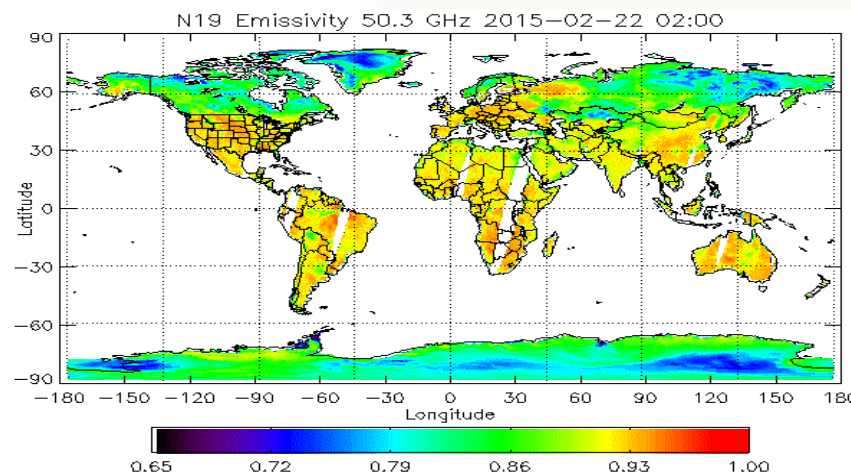
SDR ID#: 18 / 23 / 41
Format: HDF-EOS
Average Size: 10.9 MB
Frequency: Daily
Satellite: NOAA-15
Instrument: AMSU-A
Resolution: 45 km at nadir
Naming Convention:
 PRD.AADM.NK.D14203

- **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)*



SDR ID#: 18 / 23 / 41
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

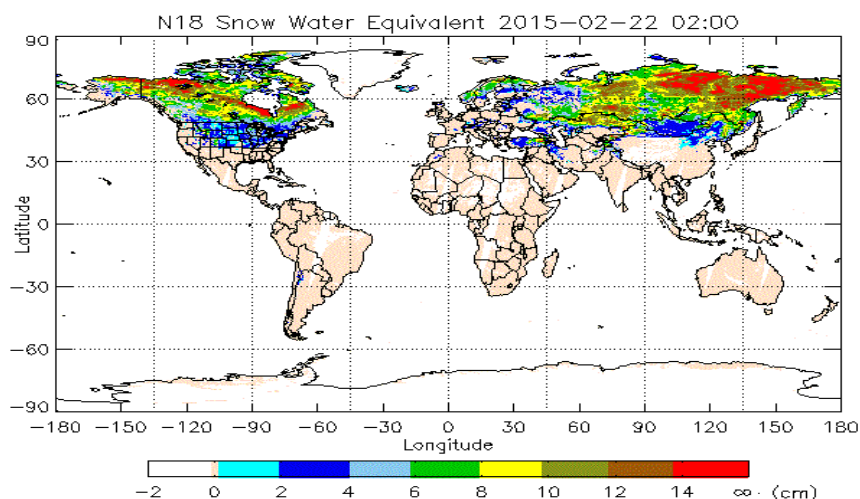
- **NOAA-19 - MSPPS AMSU-A Daily Products – Global** *(Total Precipitable Water, Cloud Liquid Water, Surface Temperature, 23.8 GHz Emissivity, 31.4 GHz Emissivity, 50.3 GHz Emissivity, Sea Ice)*



SDR ID#: 18 / 23 / 41
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

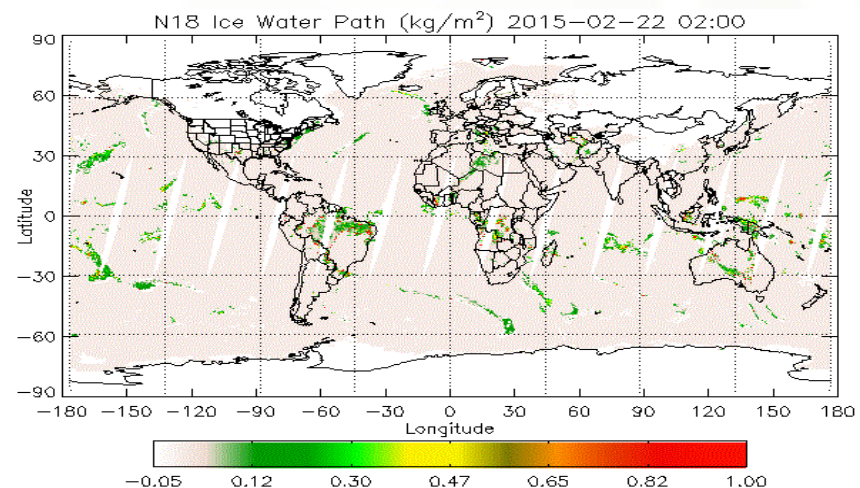


- **NOAA-18 - MSPPS MHS - Orbital Products – Global** (*Rain Rate, Ice Water Path, Snow Water Equivalent and Snow Fall Rate*)



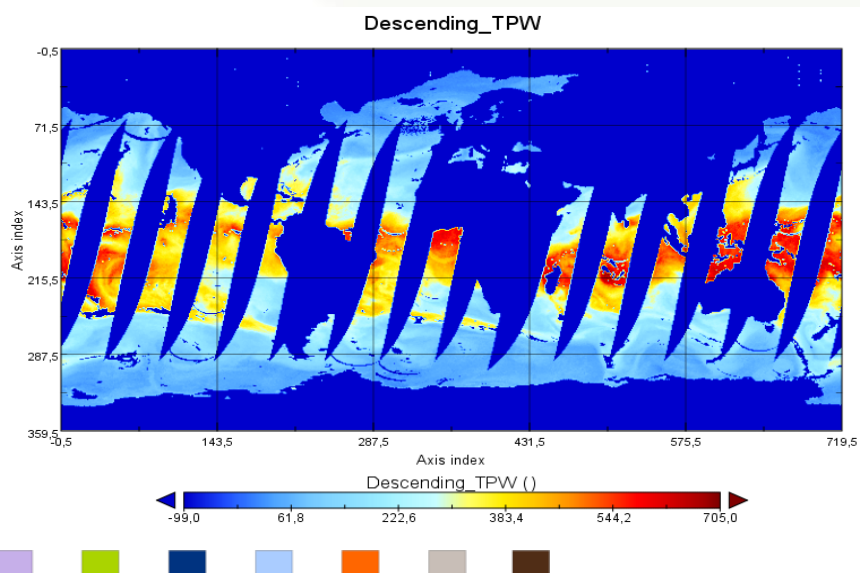
SDR ID#: 18 / 23 / 48
Format: HDF-EOS
Average Size: 2.0 MB
Frequency: 120 minutes
Max n° of files a day: 14
Satellite: NOAA-18
Instrument: MHS
Resolution: 17 km at nadir
Naming Convention:
 NPR.MHOP.NN.D14203.S0929.E1124.
 B4725657

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



SDR ID#: 18 / 23 / 48
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

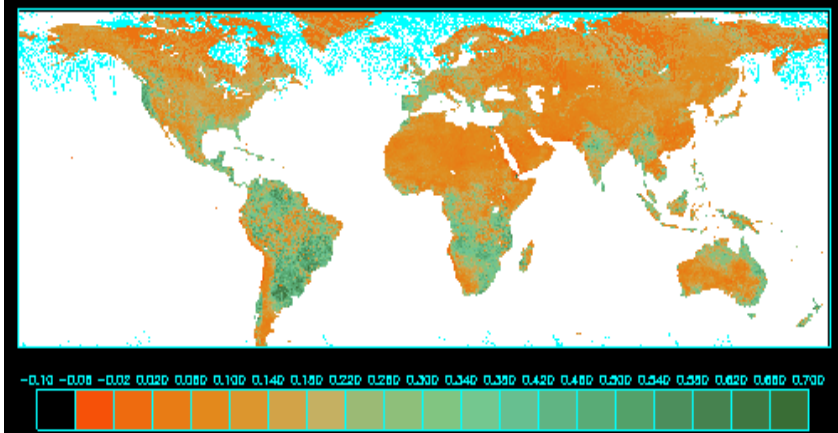
- **DMSP F15 SSM/I Daily Products - Global** (*Total Precipitable Water, Cloud Liquid Water, Cloud Type, Snow Depth, Sea Ice*)



SDR ID#: 23 / 31 / 48
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**

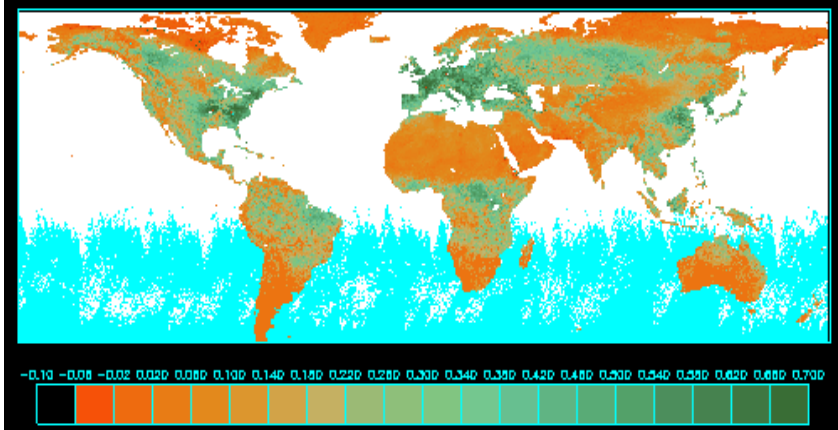
GVI Normalized Difference Vegetation Index: FEB 23 2015



SDR ID#: 51
Format: ASCII
Average Size: 2.15 MB
Frequency: Daily
Satellite: NOAA-18
Instrument: AVHRR
Resolution: 1 km
Naming Convention:
 NPR.VACC.NN.D14209.PCWN

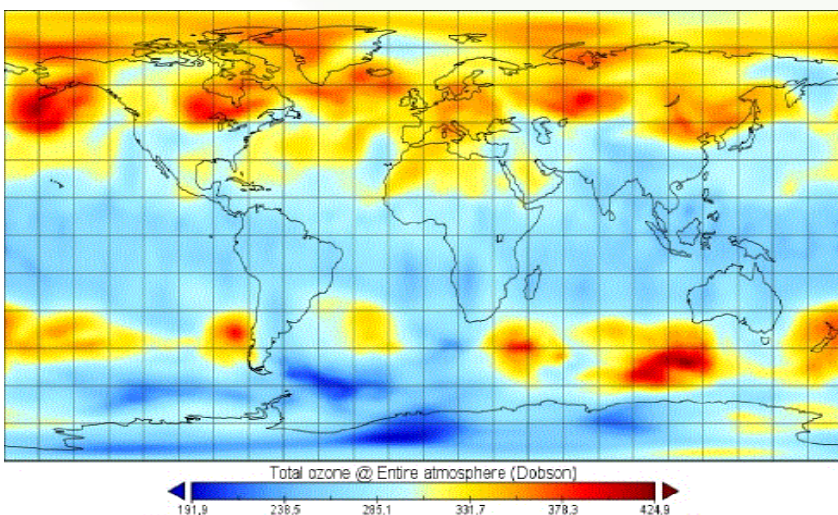
- **NOAA-19 weekly NDVI in Platee Carree Projection - Global**

GVI Normalized Difference Vegetation Index: MAY 17 2015



SDR ID#: 51
Format: ASCII
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**

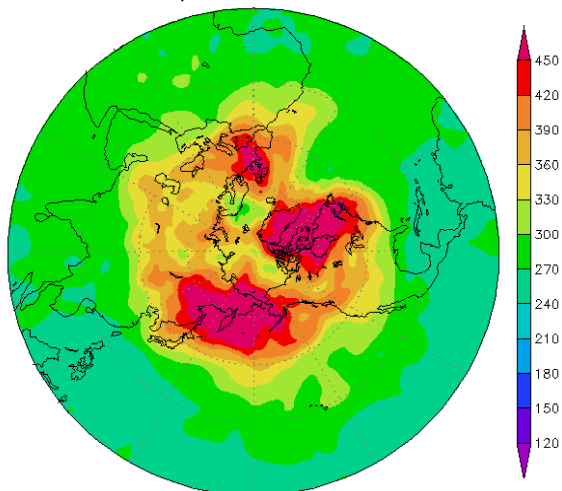


SDR ID#: 49
Formats: Binary / GRIB / PNG
Average Sizes: 254 kB (Binary), 96 kB (GRIB), 23 kB (PNG)
Frequency: Daily
Data Input: Ozone Retrievals from SBUV/2 (24 to 54 km) and TOVS (4 to 23 km)
GRIB pixel info: Ozone (Dobson)
Resolution: 1 degree
Naming Conventions:
 toast_YYYYMMDD.bin
 TOAST_YYMMDD.GRB
 toast_YYYYMMDD.png



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

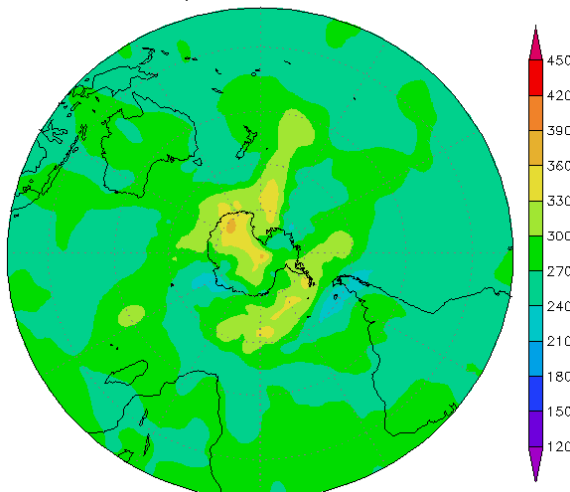
Northern Hemisphere TOAST Analysis on 2014086
SBUV/2: N19 TOVS: M1



SDR ID#: 49
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

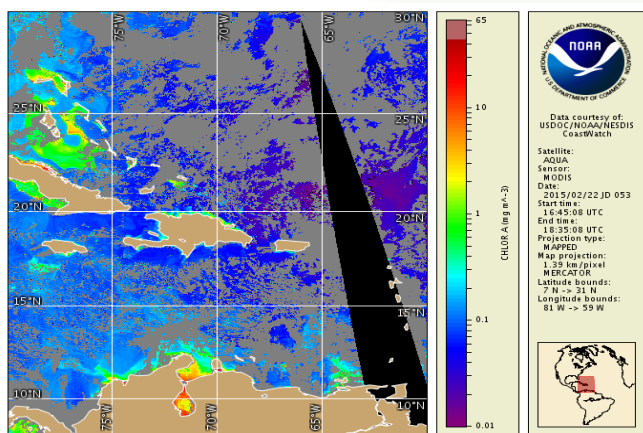
• **Total Ozone Analysis using SBUV-2 and TOVS - TOAST - Southern Hemisphere**

Southern Hemisphere TOAST Analysis on 2014086
SBUV/2: N19 TOVS: M1



SDR ID#: 49
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

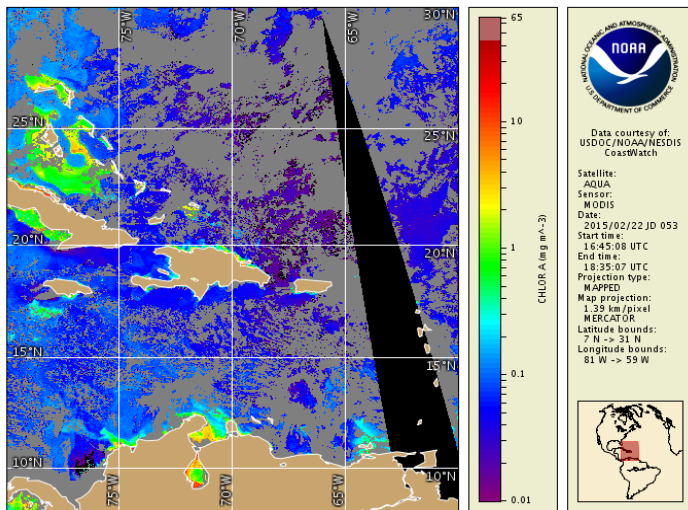
• **Sea Surface Chlorophyll - NOAA SWIR - Caribbean**



SDR ID#: 46
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

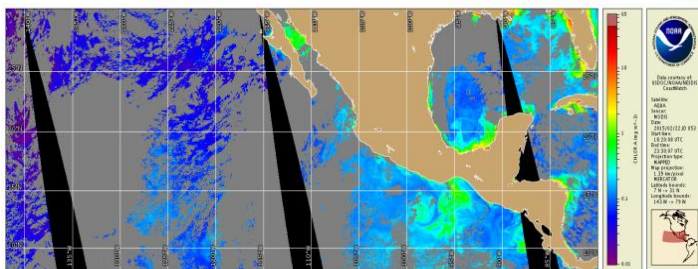


• **Sea Surface Chlorophyll - SEADAS - Caribbean**



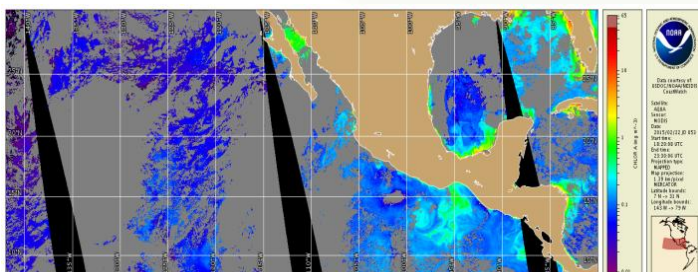
SDR ID#: 46
Formats: GeoTIFF and PNG
Average Sizes: 2.9 MB (GeoTIFF), 115 kB (PNG)
Frequency: Daily
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
 MODSCW_P2014185_C1_1655_CB05_closest_chlora
 MODSCW_P2014185_C1_1655_CB05_closest_chlora

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



SDR ID#: 46
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

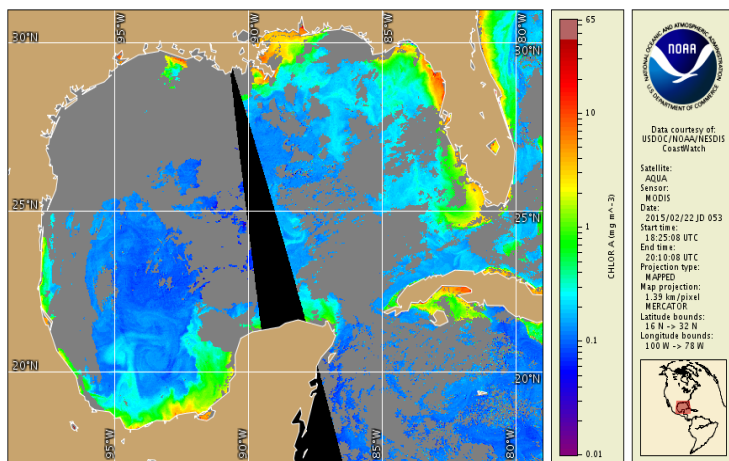
• **Sea Surface Chlorophyll - SEADAS – North America (Eastern Tropical Pacific)**



SDR ID#: 46
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)**



SDR ID#: 46

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:

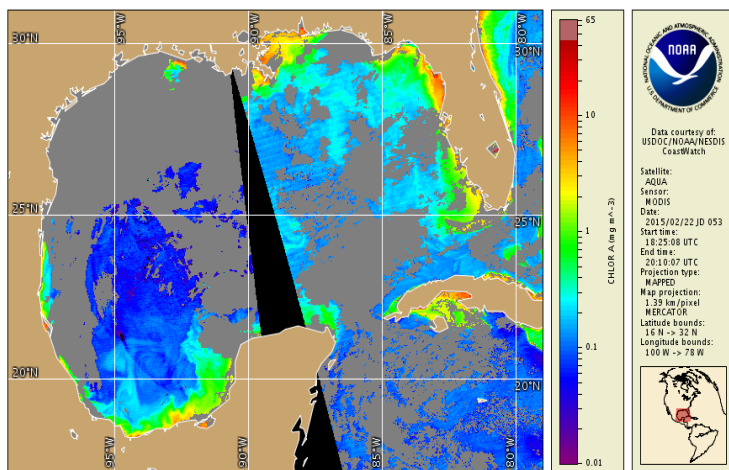
MODWCW_P2014198_C3_1800_1805_1940_

GM05_closest_chlora

MODWCW_P2014198_C3_1800_1805_1940_

GM05_closest_chlora

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



SDR ID#: 46

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:

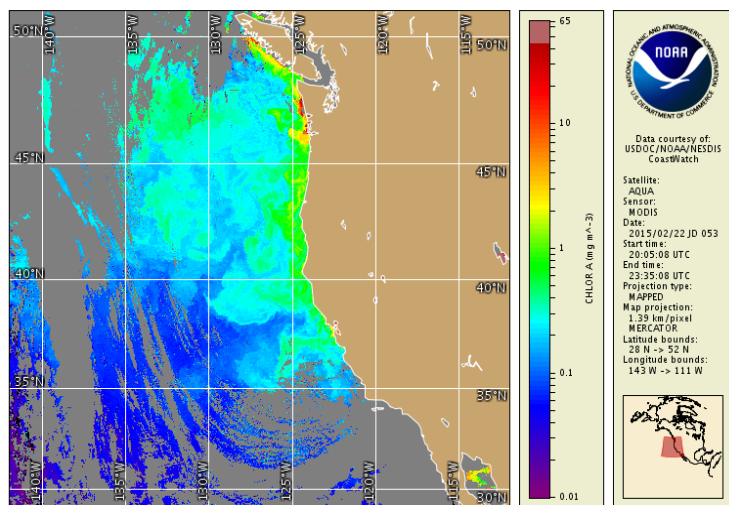
MODSCW_P2014198_C3_1800_1805_1940_GM05_

closest_chlora

MODSCW_P2014198_C3_1800_1805_1940_GM05_

closest_chlora

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



SDR ID#: 46

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_

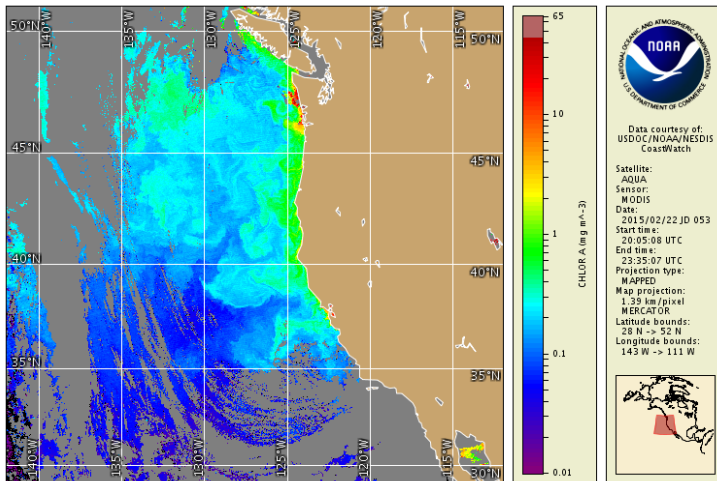
2300_WC05_closest_chlora

MODWCW_P2014198_C5_1945_1950_2120_2125_

2300_WC05_closest_chlora

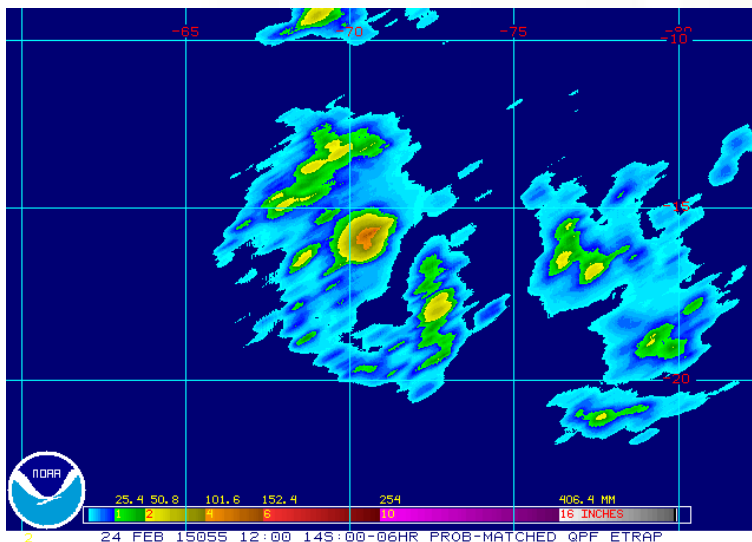


• **Sea Surface Chlorophyll - SEADAS - North America (West Coast [US])**



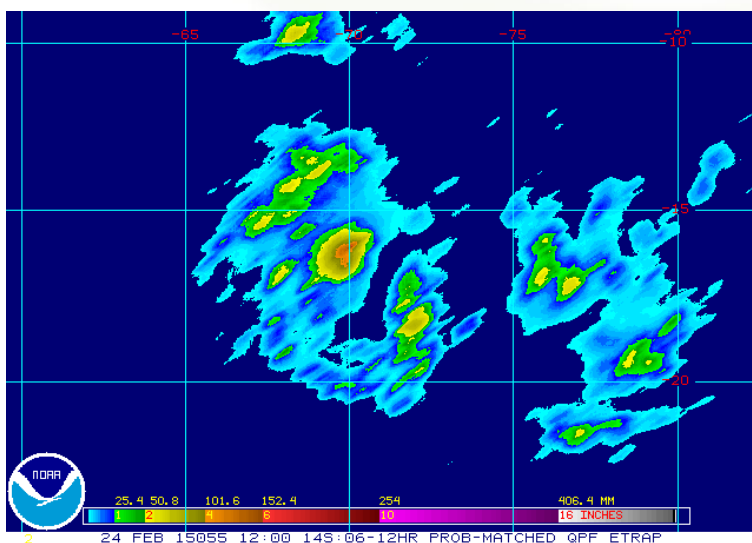
SDR ID#: 46
Formats: GeoTIFF and PNG
Average Sizes: 5.34 MB (GeoTIFF), 102 kB (PNG)
Frequency: 720 minutes
Max n° of files a day: 2 per format
GeoTIFF pixel info: 0 ~ 255
Satellite: AQUA
Instrument: MODIS
Resolution: 1.39 km
Naming Conventions:
 MODSCW_P2014198_C6_1945_1950_2120_2125_2300_2305_WC05_closest_chlora
 MODSCW_P2014198_C6_1945_1950_2120_2125_2300_2305_WC05_closest_chlora

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



SDR ID#: 23
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

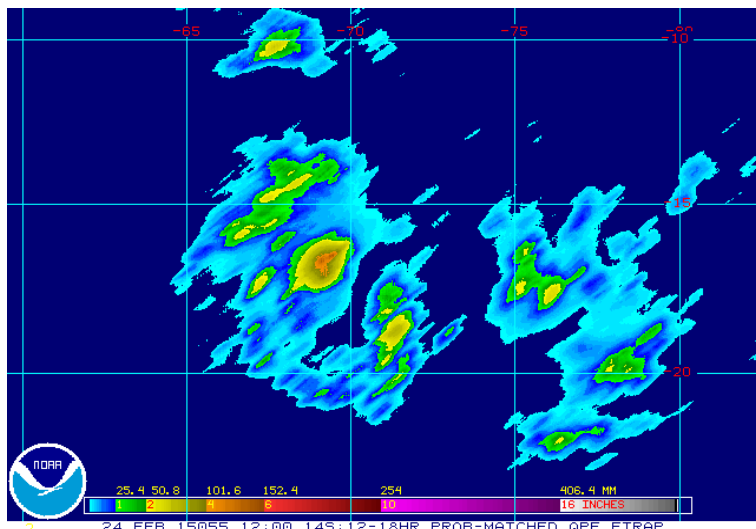
• **Ensemble Tropical Rainfall Potential - eTRaP - 6 to 12 hours forecast**



SDR ID#: 23
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

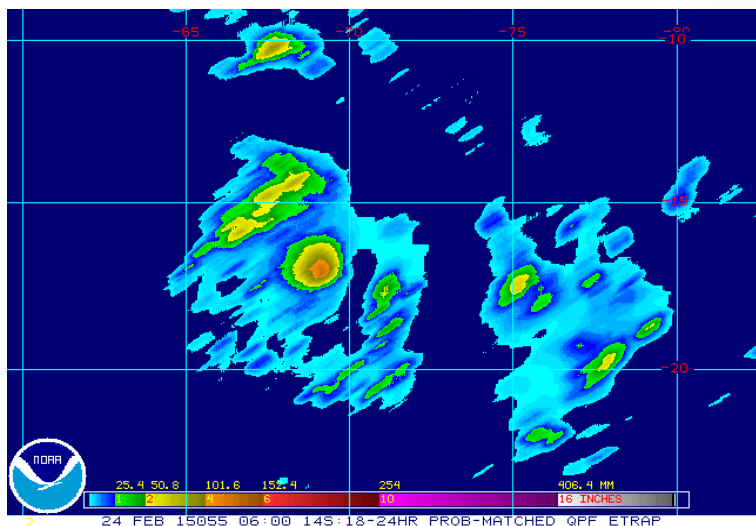


• **Ensemble Tropical Rainfall Potential - eTRaP - 12 to 18 hours forecast**



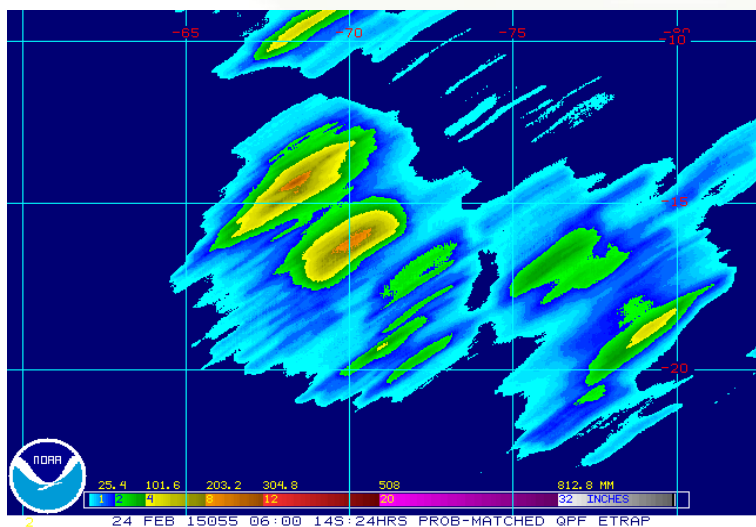
SDR ID#: 23
Format: GIF
Average Sizes: 15 kB
Frequency: Variable
Max n° of files a day: Variable
Instruments: AMSU, TRMM, SSMI and AMSRE
Naming Conventions:
 eTRaP.*.p25.*.12

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



SDR ID#: 23
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**



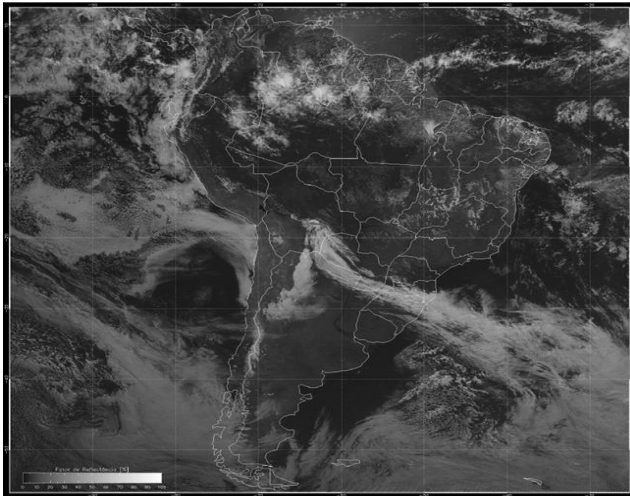
SDR ID#: 23
Format: GIF
Average Sizes: 15 kB
Frequency: Variable
Max n° of files a day: Variable
Instruments: AMSU, TRMM, SSMI and AMSRE
Naming Conventions:
 eTRaP.*.p25.*.24



PROVIDER: INPE

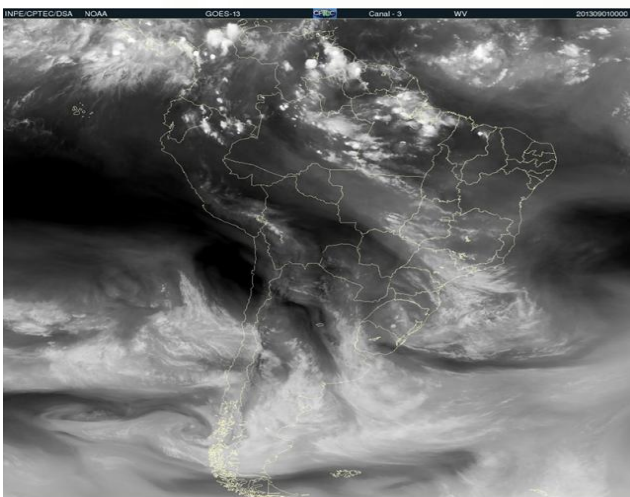
(National Institute for Space Research - Brazil)

- GOES-13 – Visible Channel – South America



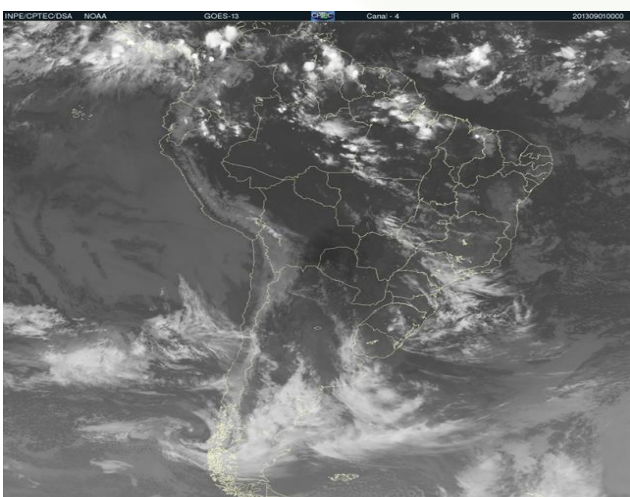
SDR ID#: 1
Formats: GeoTIFF and JPEG
Average Sizes: 2.30 MB (GeoTIFF) / 590 kB (JPEG)
Frequency: 30 minutes
Max n° of files a day: 48 per format
GeoTIFF pixel info: Albedo x 100
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 μm , cent. at 0.63 μm
Projection: Rectangular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

- GOES-13 – Water Vapor Channel – South America



SDR ID#: 1
Formats: GeoTIFF and JPEG
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

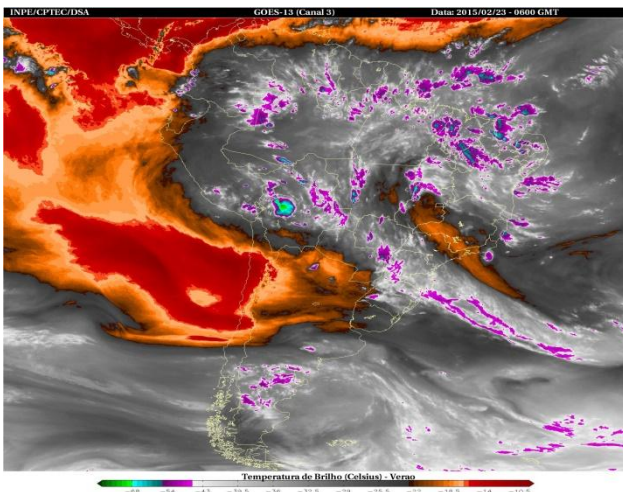
- GOES-13 – Infrared Channel – South America



SDR ID#: 1
Formats: GeoTIFF and JPEG
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

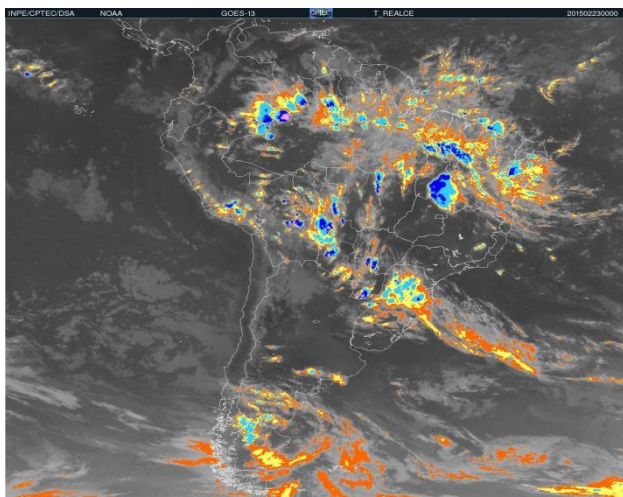


• **GOES-13 – Water Vapor Channel Enhanced – South America**



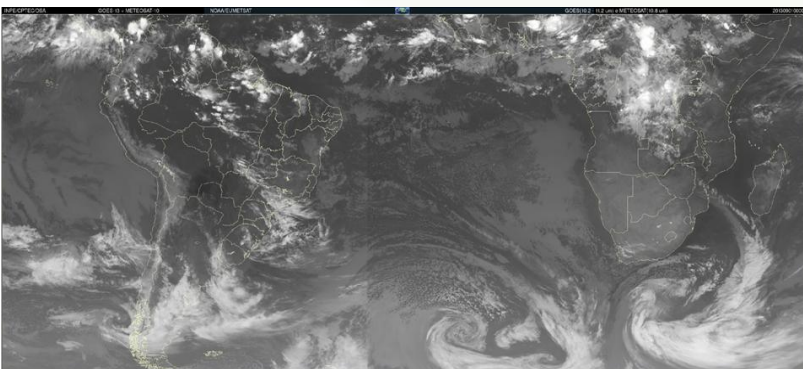
SDR ID#: 1
Format: JPEG
Average Size: 2.40 MB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 3
Wavelength: 5.77 to 7.33 μm , cent. at 6.50 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 INPE_SWE_YYYYMMDDHHMN

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



SDR ID#: 1
Format: JPEG
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

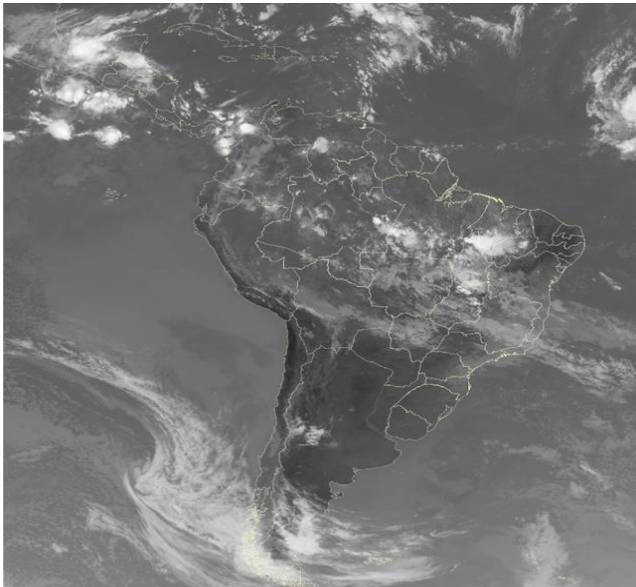
• **GOES-13 + METEOSAT 10 - Infrared Channel - South America and Africa**



SDR ID#: 1 / 5
Formats: GeoTIFF and JPEG
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

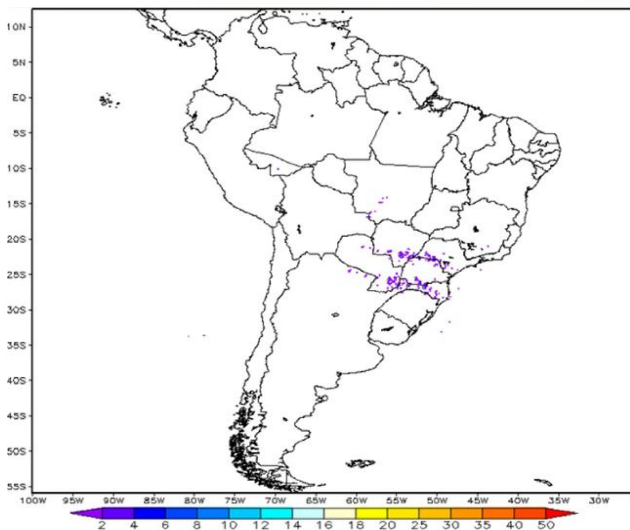


• **GOES-13 – Infrared Channel – Central and South America**



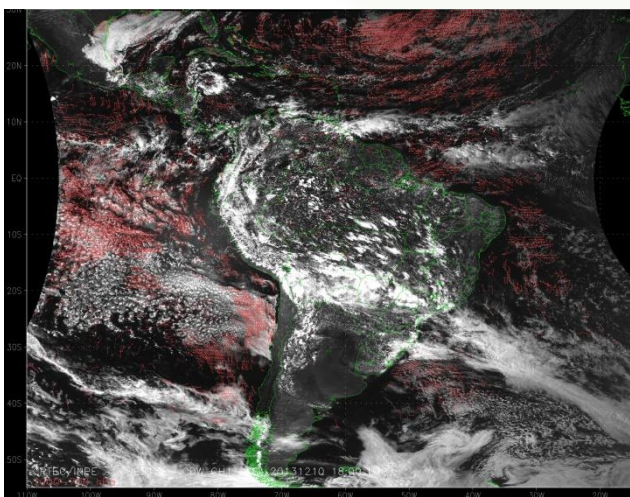
SDR ID#: 1 / 4
Format: GeoTIFF
Average Size: 3.60 MB
Frequency: 3 hours
Max n° of files a day: 8
GeoTIFF pixel info: Brightness Temp. x 10
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 μm , cent. at 10.70 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 INPE_CSI_YYYYMMDDHHMN

• **Lightning Discharges Images – South America**



SDR ID#: 24
Format: JPEG
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

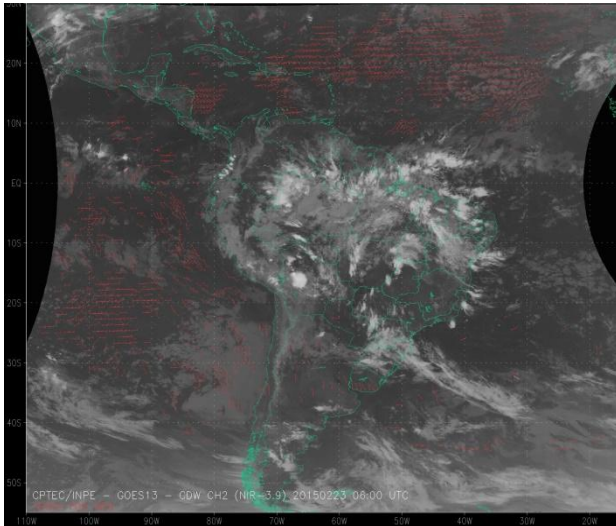
• **Wind Chart - Visible Channel (701-1000 hPa Daytime) - South America**



SDR ID#: 8
Format: JPEG
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

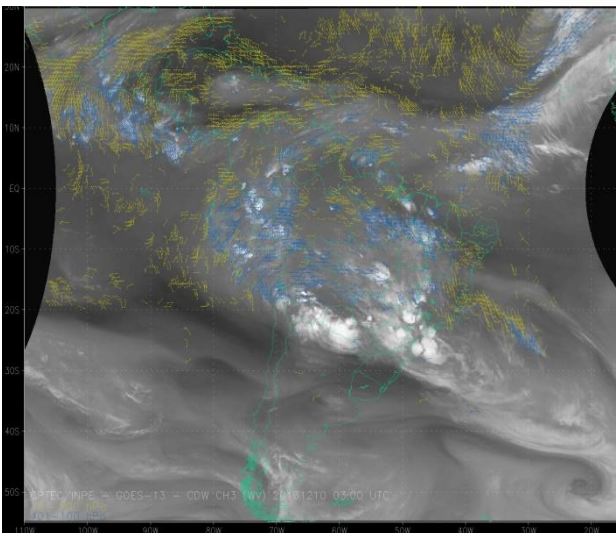


• **Wind Chart - Near Infrared Channel - (701-1000 hPa Nighttime) South America**



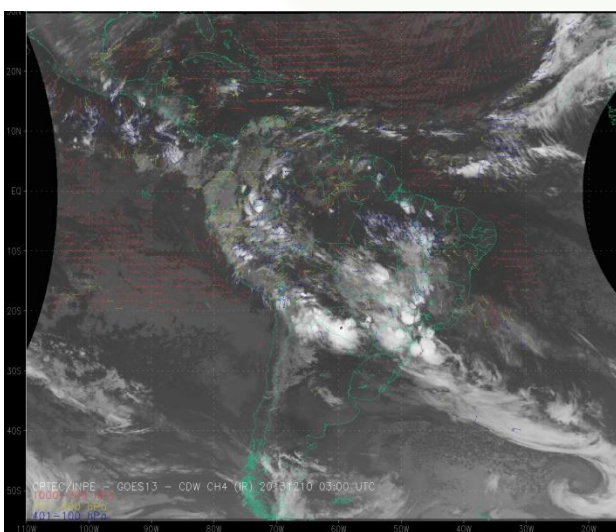
SDR ID#: 8
Format: JPEG
Average Size: 806 kB
Frequency: 30 minutes
Max n° of files a day: 25 (nighttime only)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 2
Wavelength: 3.78 to 4.03 μm , cent. at 3.90 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 INPE_GWN_YYYYMMDDHHMN

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



SDR ID#: 8
Format: JPEG
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

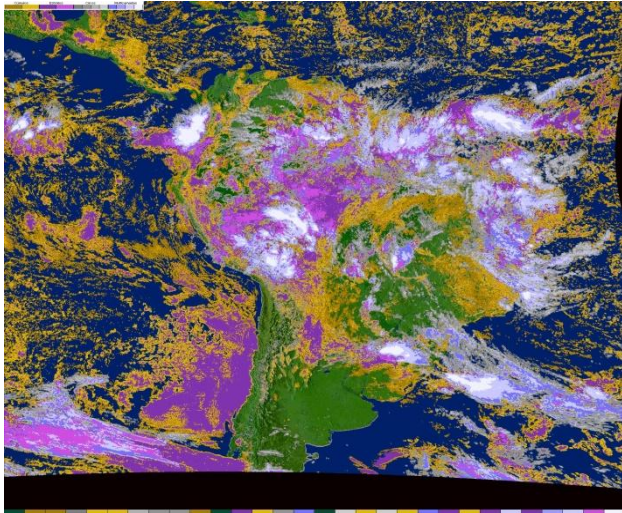
• **Wind Chart - Infrared Channel - All Altitude Levels - South America**



SDR ID#: 8
Format: JPEG
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

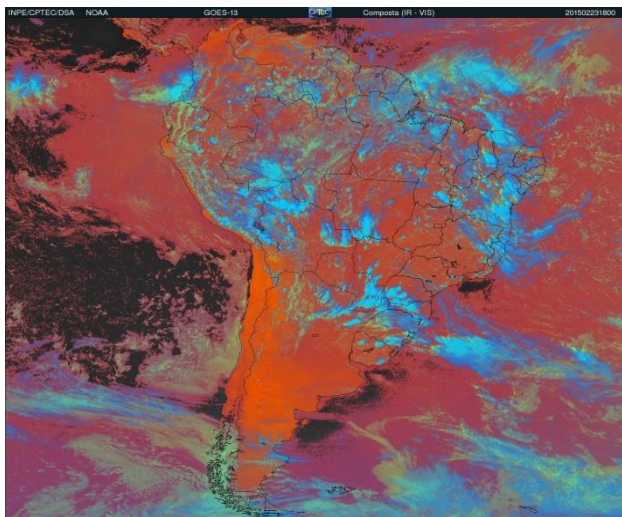


• **GOES-13 - Cloud Classification - South America**



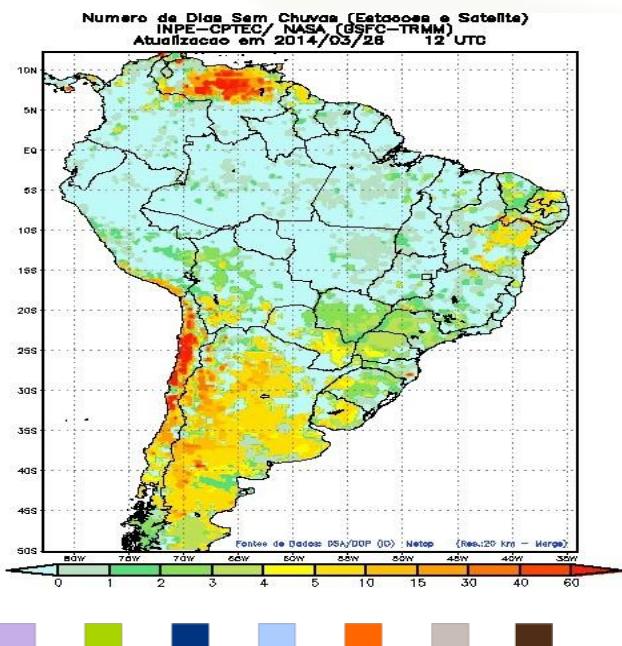
SDR ID#: 31
Format: JPEG
Average Size: 1.40 MB
Frequency: 30 minutes
Max n° of files a day: 30 (daylight only)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channels: 1 and 4
Wavelength: 0.63 and 10.70 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 INPE_CLC_YYYYMMDDHHMN

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



SDR ID#: 32
Format: JPEG
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

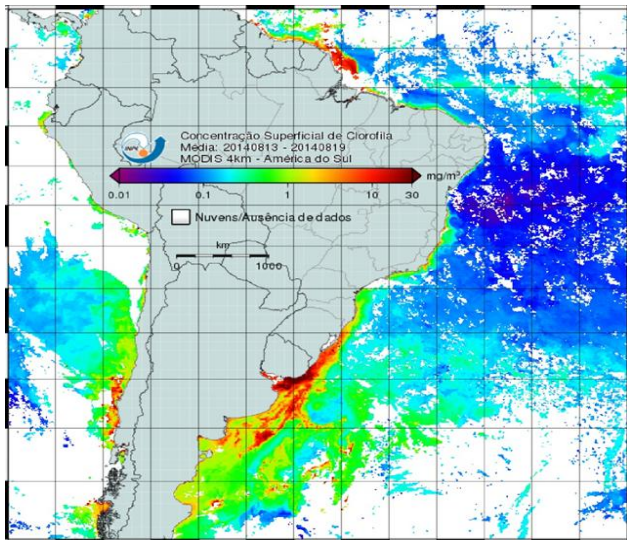
• **Number of Days Without Rain – South America**



SDR ID#: 39
Format: JPEG
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



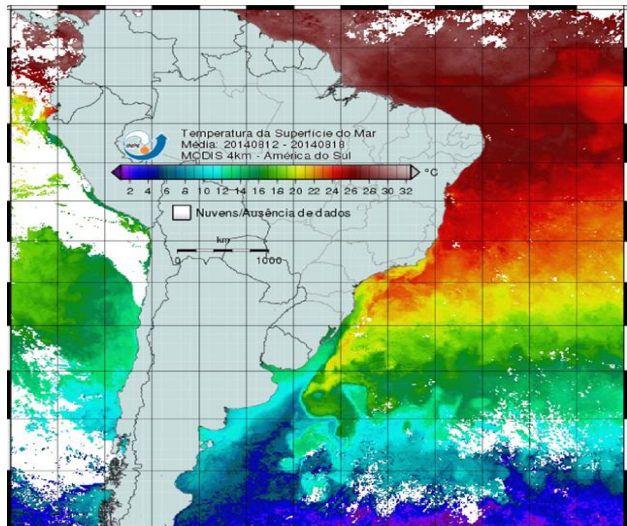
• **Sea Surface Chlorophyll - South America**



SDR ID#: 46

Format: PNG
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

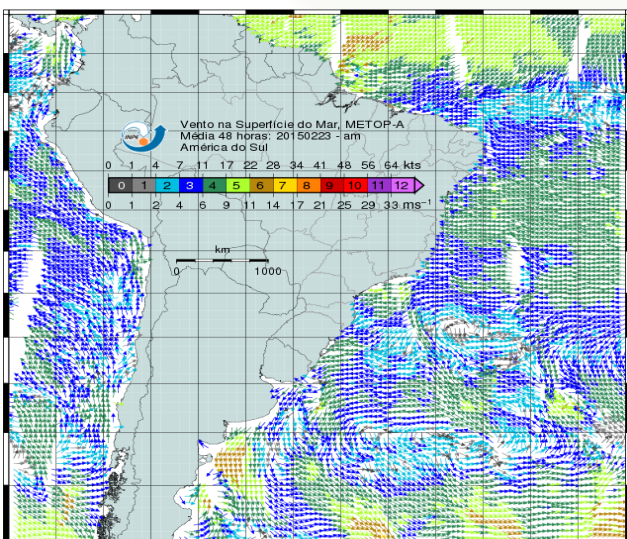
• **Sea Surface Temperature - South America**



SDR ID#: 28

Format: PNG
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**

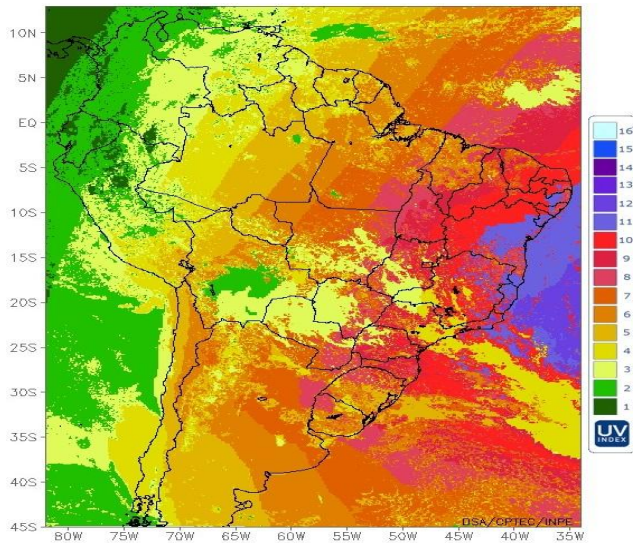


SDR ID#: 43

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

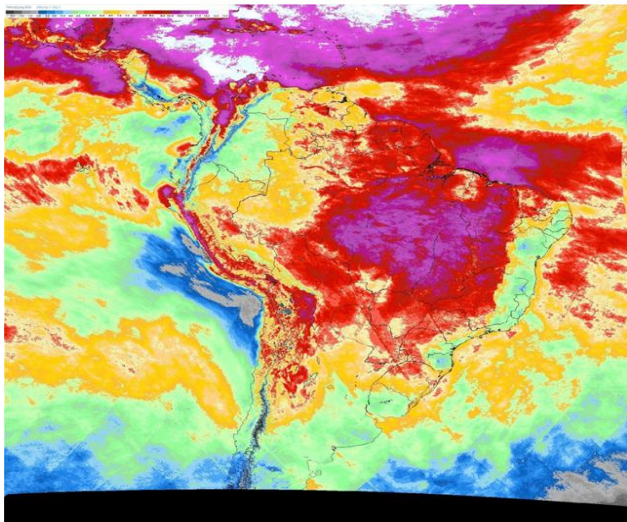


• **Ultraviolet Index – South America**



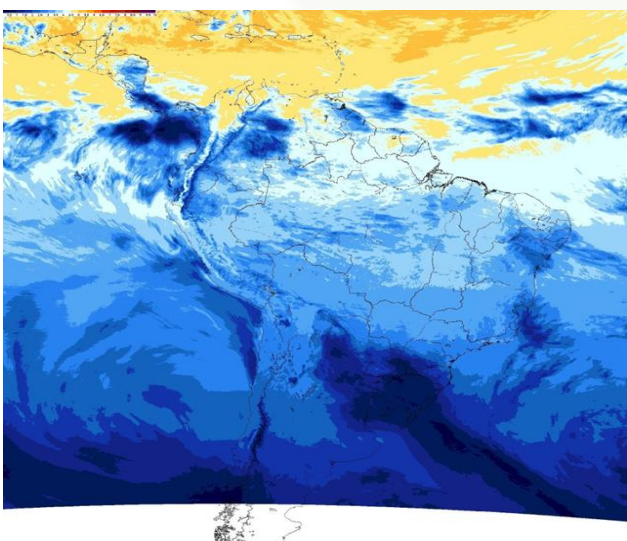
SDR ID#: 40
Format: JPEG
Average Size: 170 kB
Frequency: 30 min
Max n° of files a day: 25 (daylight only)
Data Input: Ozone concentration from NCEP/NOAA analysis and GOES-13 imagery (Cloud type estimation)
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 INPE_UVI_YYYYMMDDHHMN

• **Accumulated Average Insolation - South America**



SDR ID#: 47
Format: JPEG
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

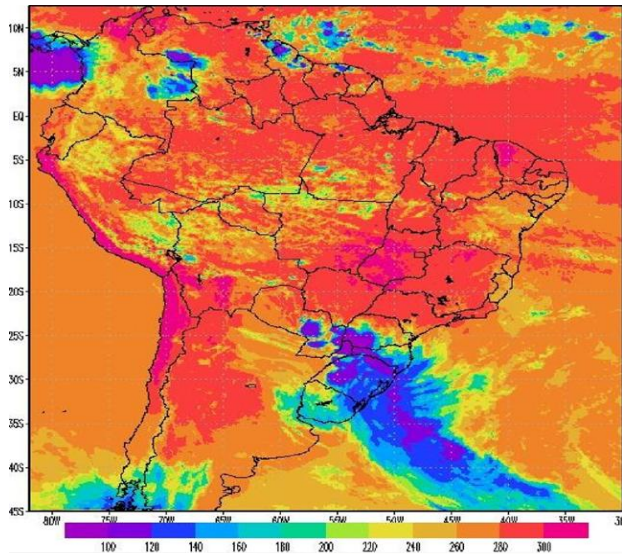
• **Global Solar Radiation - South America**



SDR ID#: 47
Formats: GeoTIFF and JPEG
Average Sizes: 3.83 MB (GeoTIFF) / 1.07 MB (JPEG)
Frequencies: Monthly (GeoTIFF) / Daily (JPEG)
GeoTIFF pixel info: $\text{W/m}^2 \times 10$
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

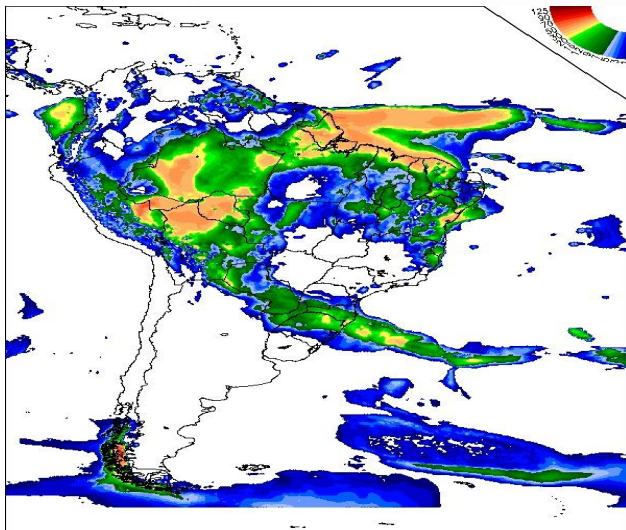


• **Long Wave Radiation - South America**



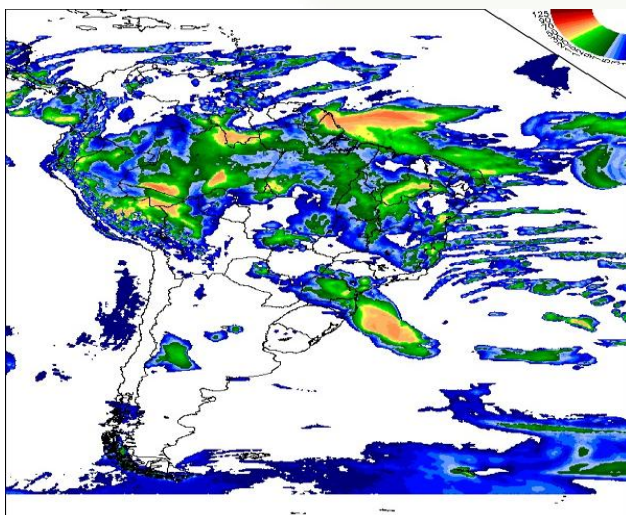
SDR ID#: 47
Format: JPEG
Average Size: 180 kB
Frequency: 3 hours
Max n° of files a day: 8
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 μm , cent. at 10.70 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 INPE_LWR_YYYYMMDDHHMN

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



Format: JPEG
Average Size: 180 kB
Frequency: Daily
Naming Convention:
 INPE_RP1_YYYYMMDDHHMN

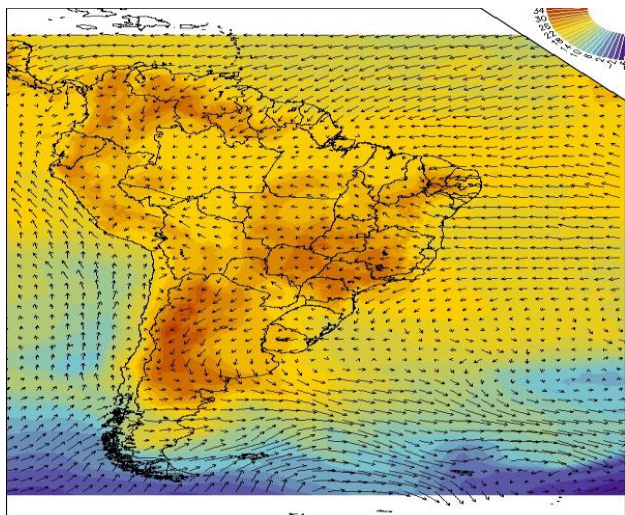
• **Accumulated Precipitation Forecast - 48 Hours - South America**



Format: JPEG
Average Size: 200 kB
Frequency: Daily
Naming Convention:
 INPE_RP2_YYYYMMDDHHMN

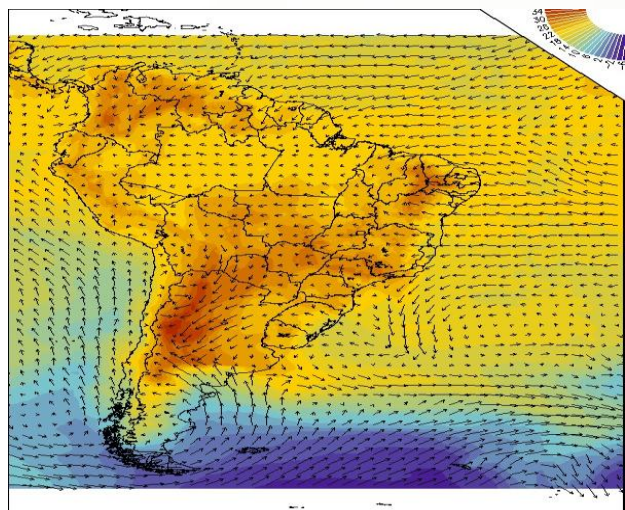


• **Air Temperature and Wind at 925 hPa - 24 Hours - South America**



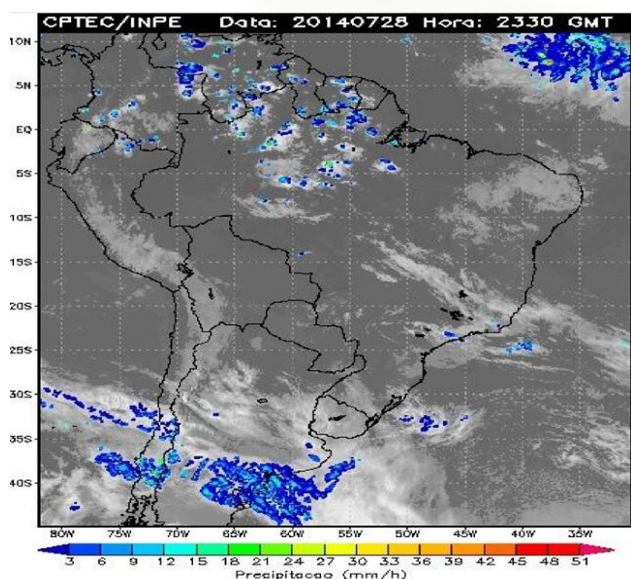
Format: JPEG
Average Size: 265 kB
Frequency: Daily
Naming Convention:
 INPE_RT1_YYYYMMDDHHMN

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



Format: JPEG
Average Size: 265 kB
Frequency: Daily
Naming Convention:
 INPE_RT2_YYYYMMDDHHMN

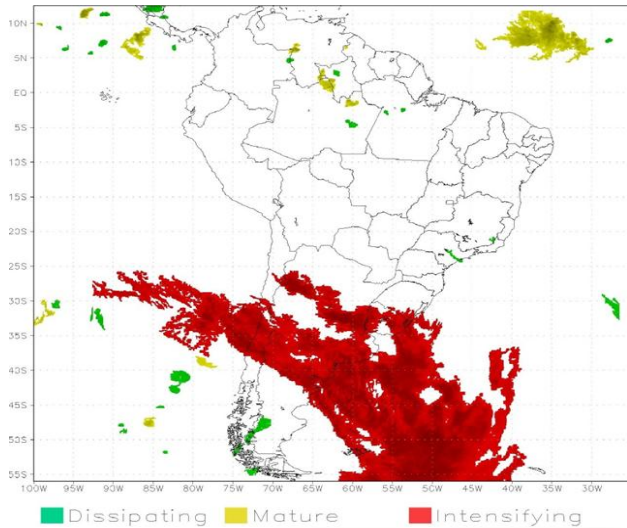
• **Instantaneous Precipitation - South America**



SDR ID#: 21
Formats: GeoTIFF and JPEG
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

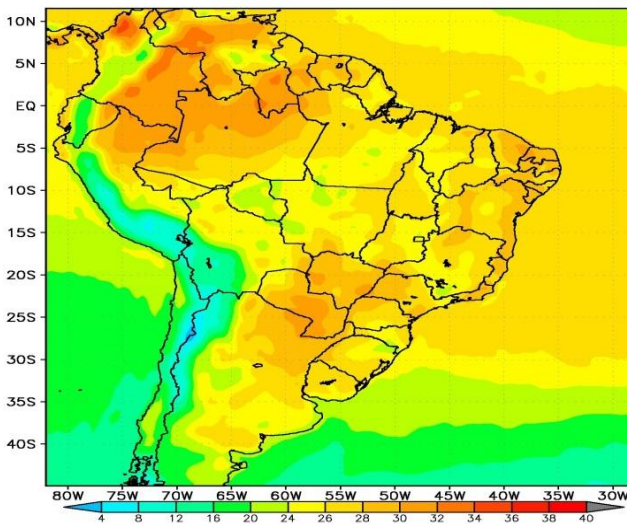


• **Forecast and Tracking the Evolution of Cloud Clusters - ForTraCC - South America**



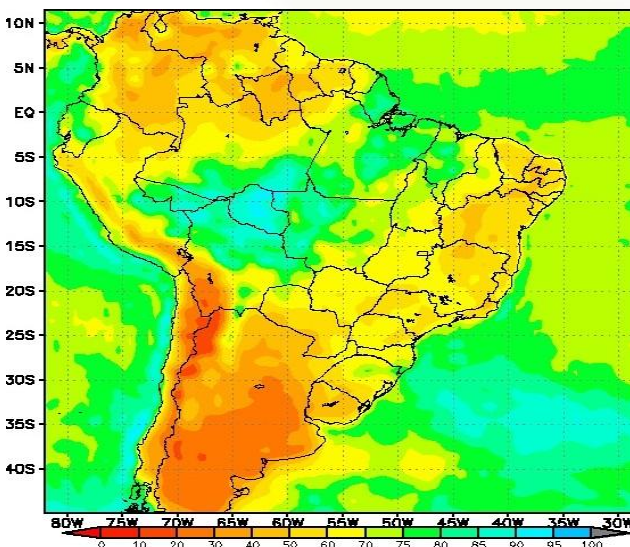
SDR ID#: 20
Format: JPEG
Average Size: 410 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 4
Wavelength: 10.20 to 11.20 μm , cent. at 10.70 μm
Projection: Rectangular
Resolution: 4 x 4 km
Naming Convention:
 INPE_RFS_YYYYMMDDHHMN

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



Format: JPEG
Average Size: 145 kB
Frequency: Daily
Naming Convention:
 INPE_AMT_YYYYMMDDHHMN

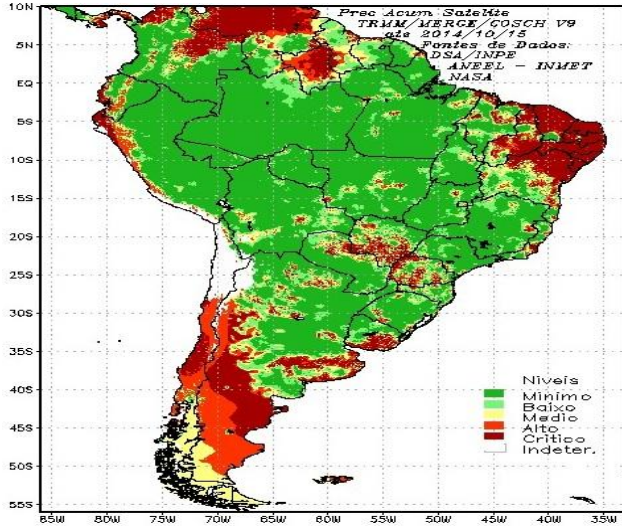
• **Average Minimum Relative Humidity - South America**



Format: JPEG
Average Size: 155 kB
Frequency: Daily
Naming Convention:
 INPE_ARH_YYYYMMDDHHMN

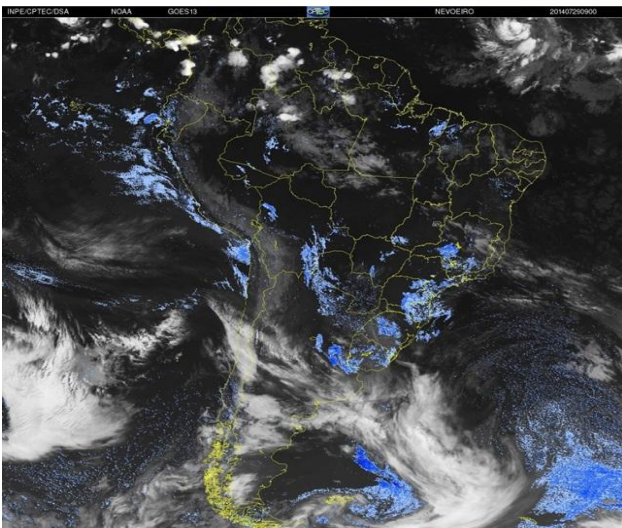


• **Fire Risk Map - South America**



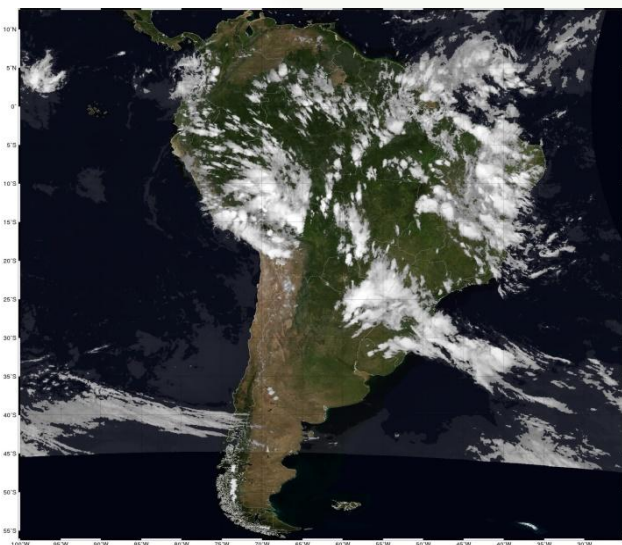
SDR ID#: 27
Format: JPEG
Average Size: 145 kB
Frequency: Daily
Naming Convention:
 INPE_FRM_YYYYMMDDHHMN

• **Fog - South America**



SDR ID#: 50
Format: JPEG
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

• **AQUA/TERRA - Blue Marble - South America**



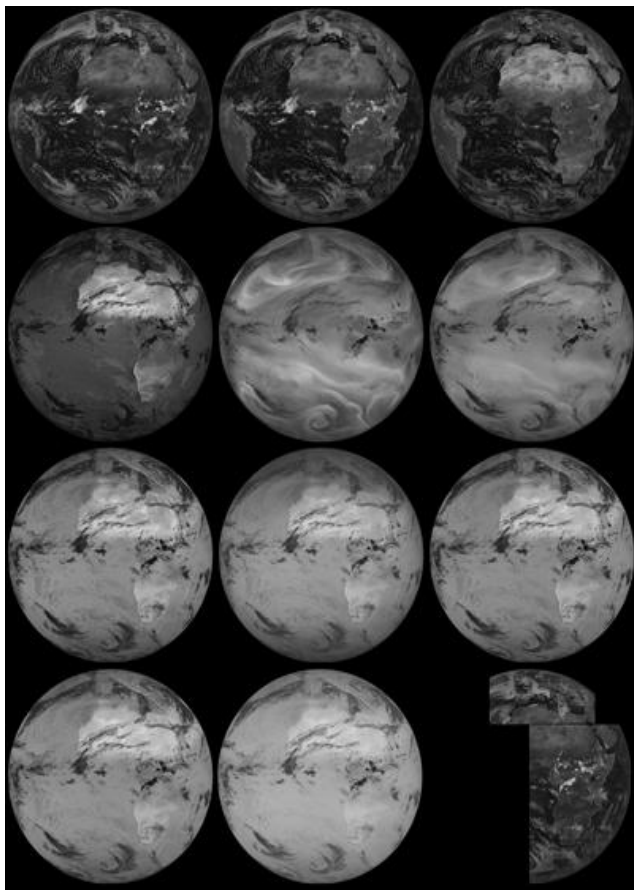
Format: JPEG
Average Size: 700 kB
Frequency: 30 minutes
Max n° of files a day: 48
Satellites: AQUA/TERRA
Projection: Rectangular
Naming Convention:
 INPE_SAD_YYYYMMDDHHMN



PROVIDER: EUMETSAT

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

- SEVIRI Level 1.5 Image Data - MSG - 0 degree



SDR ID#: 5 / 6 / 7

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

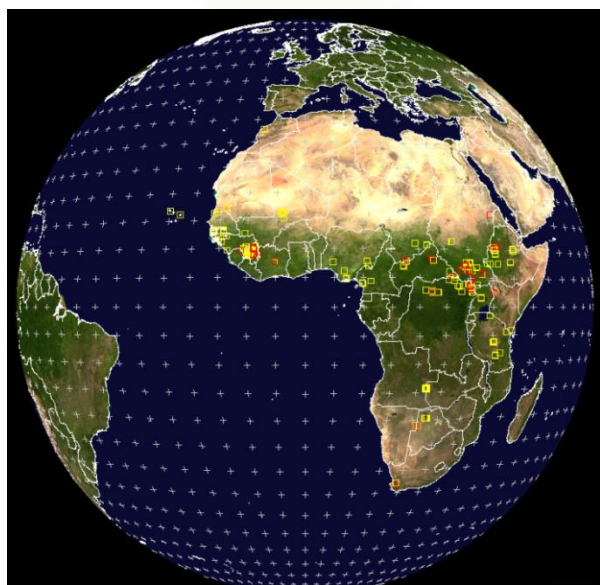
IR13.4 - 3,0 km

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



SDR ID#: 26

Formats: CAP (Common Alert Protocol) and GRIB2

Files per day: 192 per format

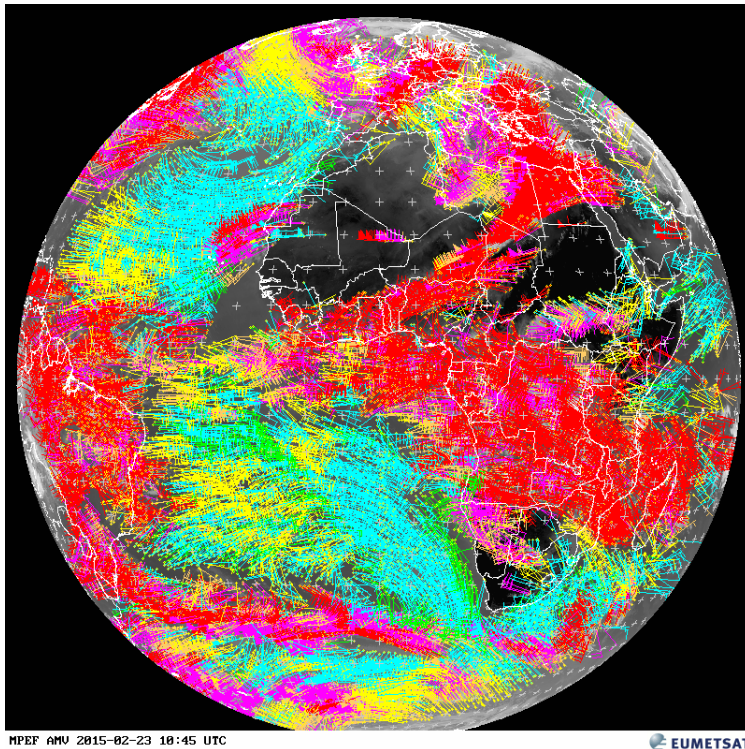
Volume per day: 2 MB (CAP) and 1.5 MB (GRIB2)

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**



SDR ID#: 8

Format: BUFR

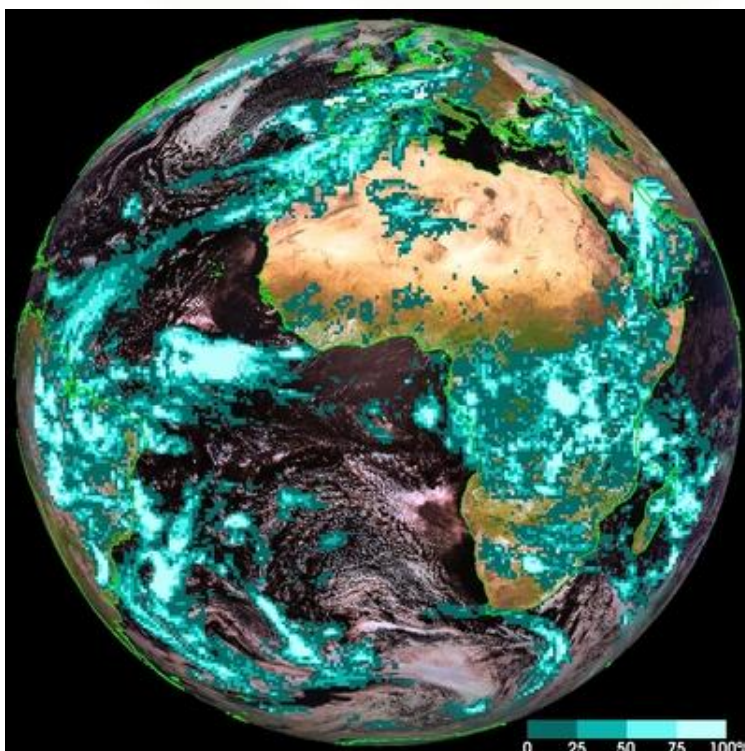
Files per day: 48

Volume per day: 52 MB

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**



SDR ID#: 32

Format: BUFR

Files per day: 32

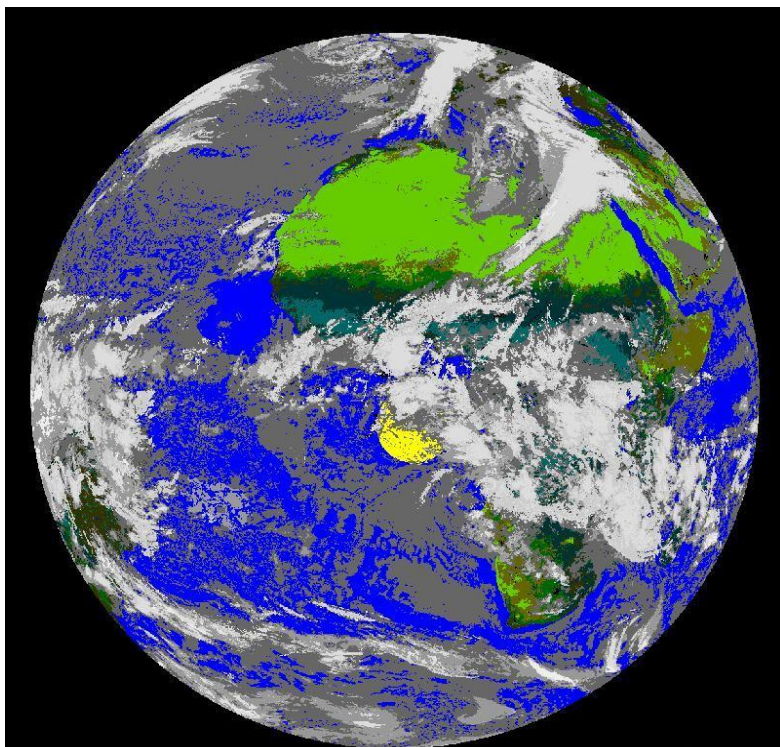
Volume per day: 12 MB

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**

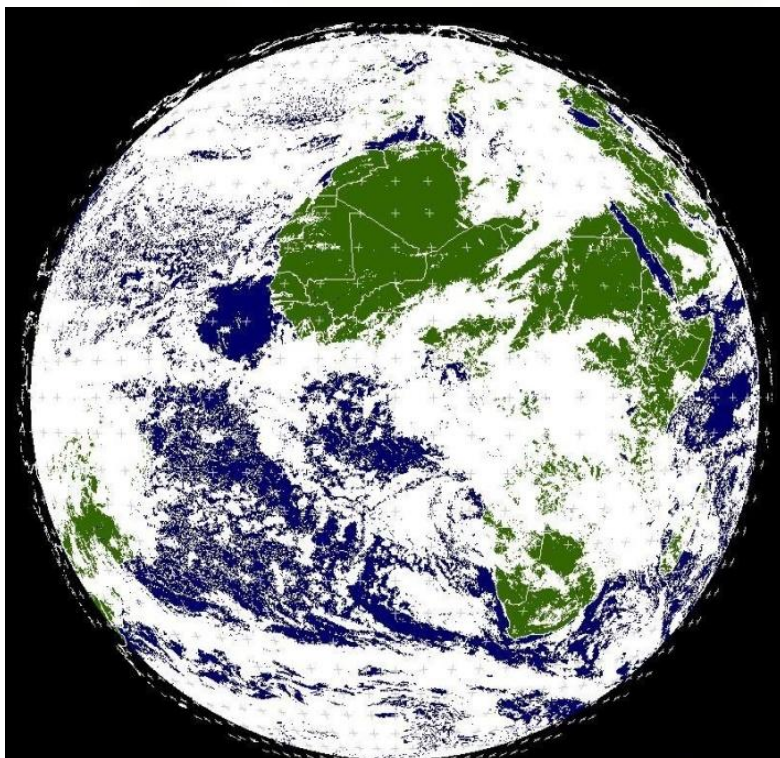


SDR ID#: 32
Format: GRIB2
Files per day: 32
Volume per day: 9.5 MB
 L-000-MSG?__-MPEF_____ -CLAI[_]*

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.

MPEF CLAI 2015-02-23 11:45 UTC 

• **Cloud Mask - MSG - 0 degree**



SDR ID#: 32
Format: GRIB2
Files per day: 672
Volume per day: 325 MB
 L-000-MSG?__-MPEF_____ -CLM[_]*

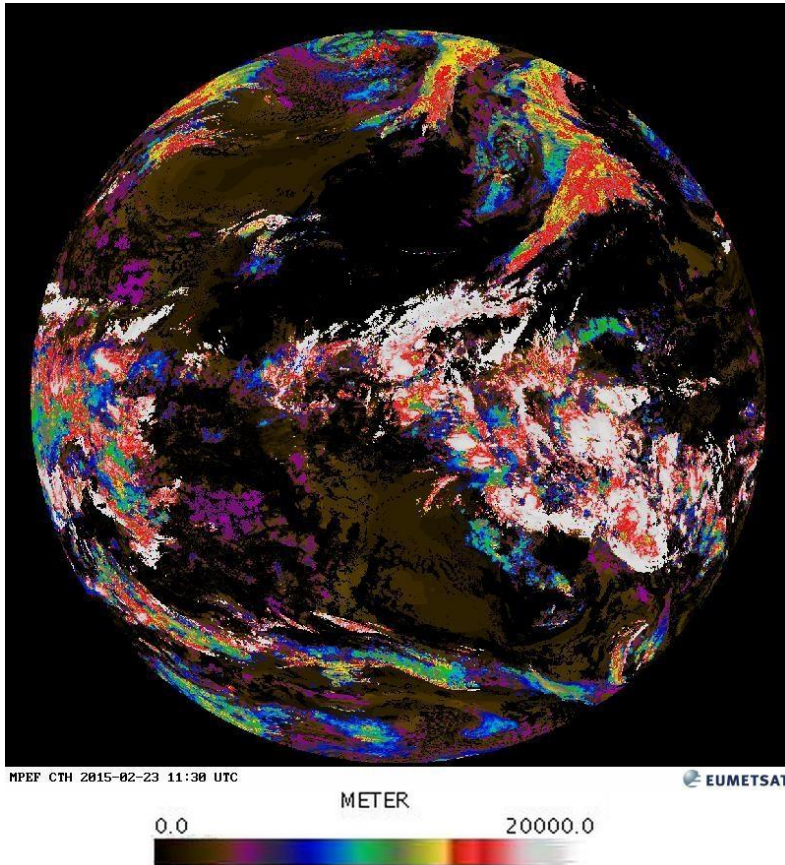
The Cloud Mask product describes the scene type (either 'clear' or 'cloudy') on a pixel level. Each pixel is classified as one of the following four types: clear sky over water, clear sky over land, cloud, or not processed (off Earth disc). Applications & Uses: The main use is in support of Nowcasting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

MPEF CLM 2015-02-23 11:30 UTC 

 Cloud  Land  Water



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



SDR ID#: 31

Format: GRIB2

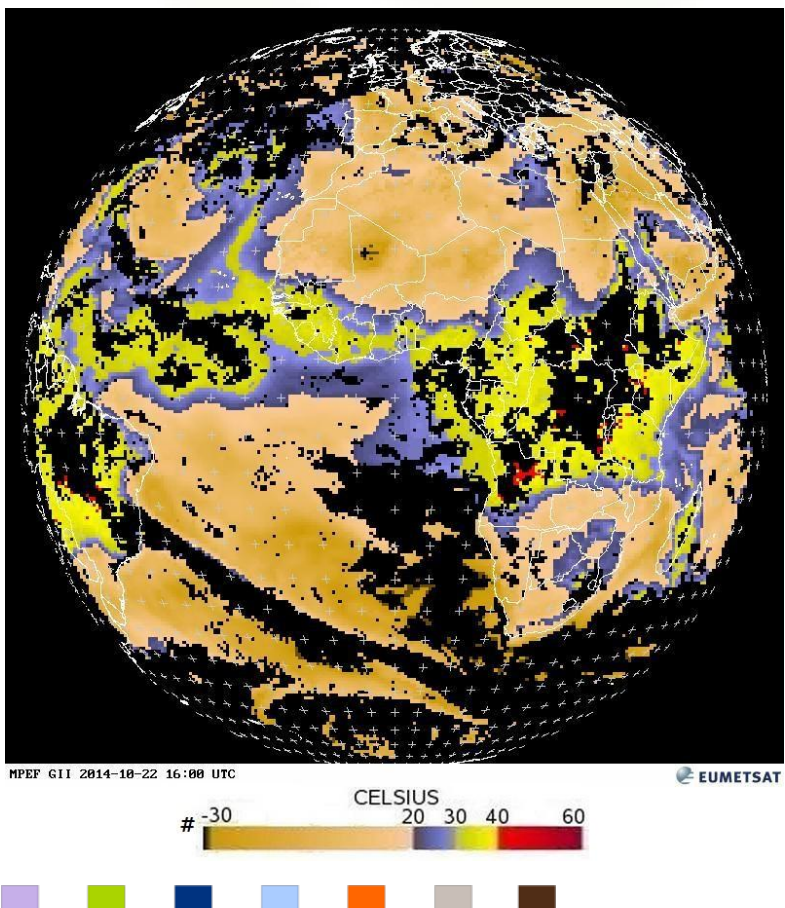
Files per day: 288

Volume per day: 80 MB

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**



SDR ID#: 25

Format: BUFR

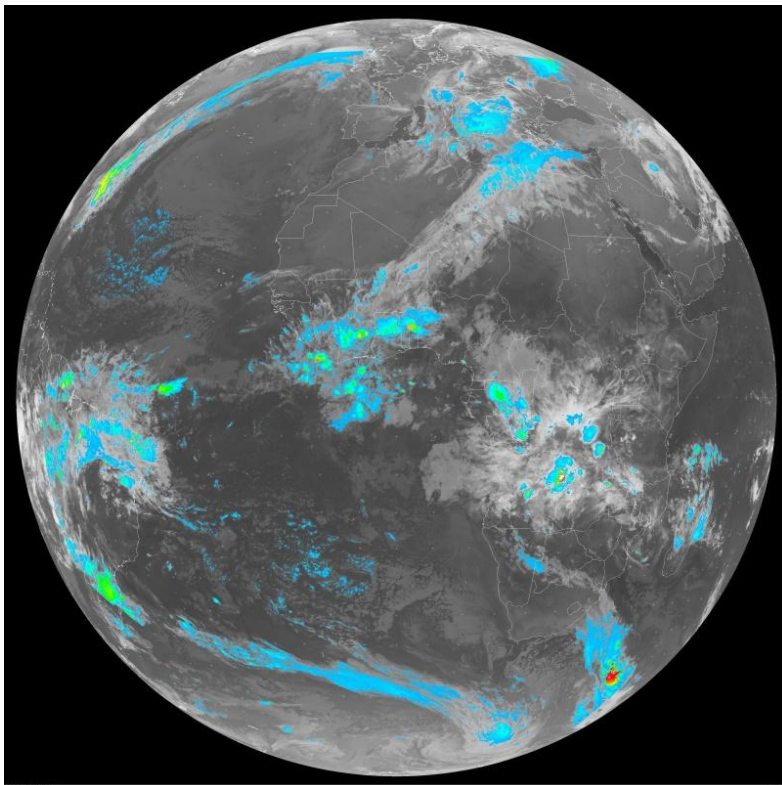
Files per day: 192

Volume per day: 840 MB

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.

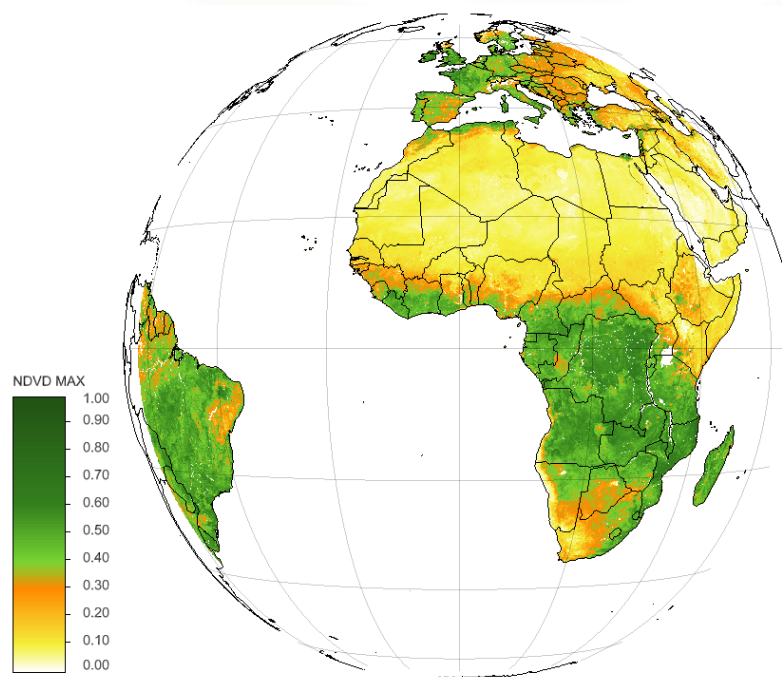
• **Multi-Sensor Precipitation Estimate (GRIB) - MSG - 0 degree**



SDR ID#: 21
Format: GRIB2
Files per day: 480
Volume per day: 210 MB
 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**

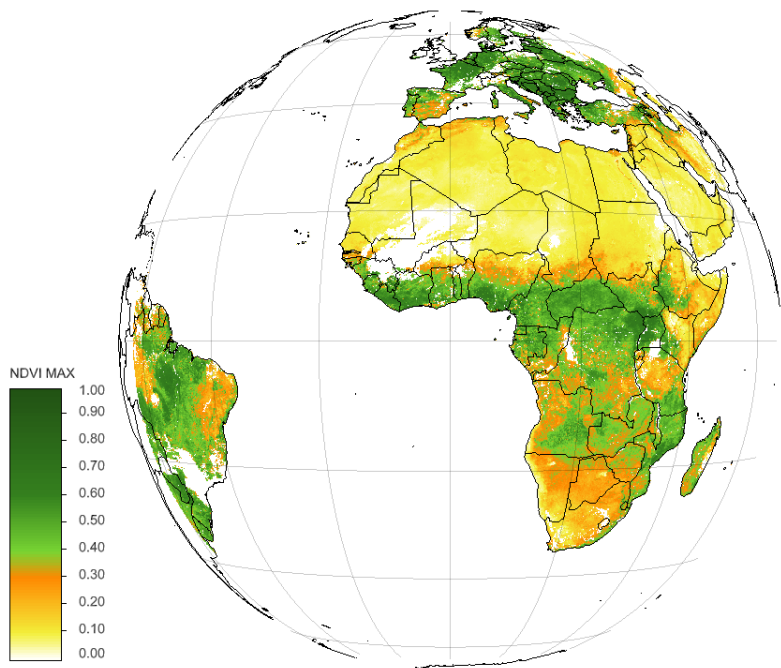


SDR ID#: 51a
Format: HDF5
Files per day: 2
Volume per day: 11.5 MB
 L-000-MSG?__-MPEF_____ -NDVD[_]*

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**



SDR ID#: 51

Format: HDF5

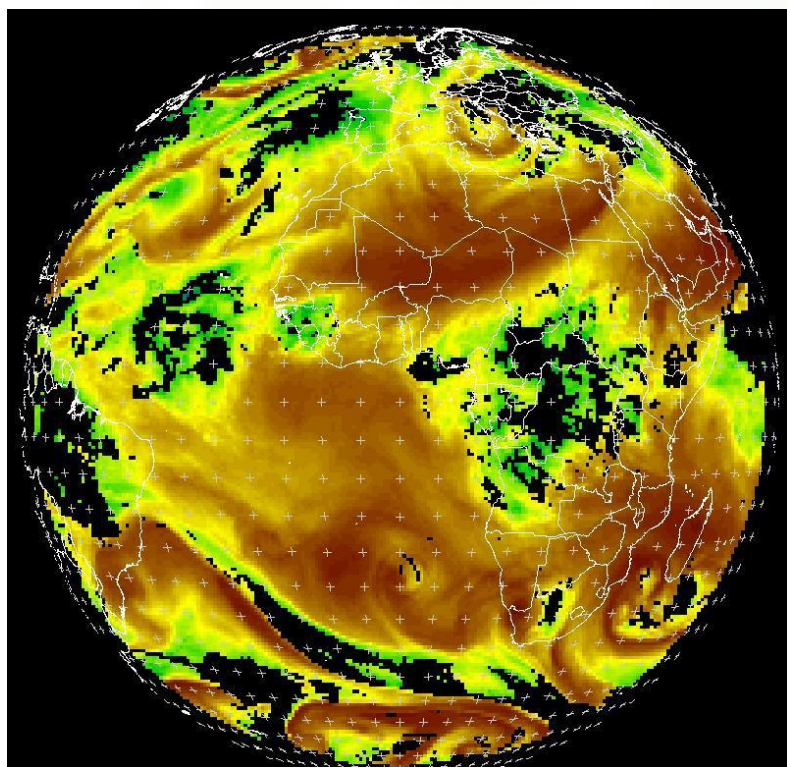
Files per day: 2

Volume per day: 9.3 MB

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

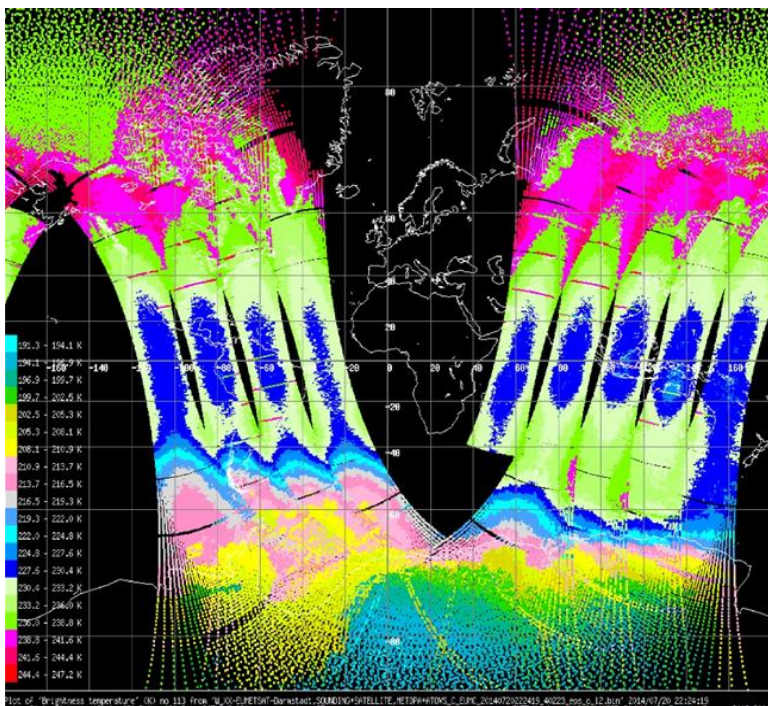
Volume per day: 3.5 MB

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

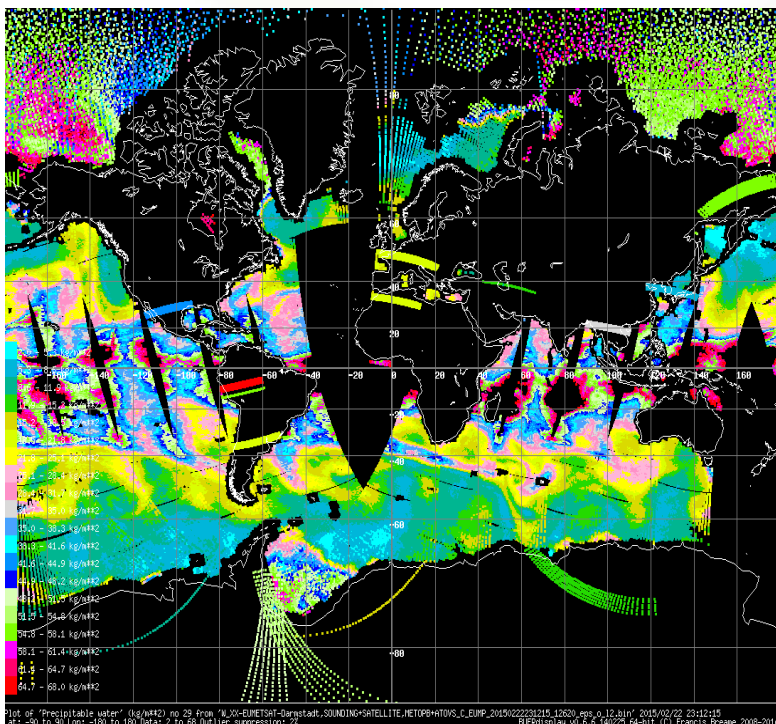


- **METOP A - Advanced TIROS Operational Sounder - ATOVS – Global** (*Temperature Profiles, Humidity Profiles, Surface Temperatures, Cloud Top Temperatures, Cloud Top Pressure, Effective Cloud Amount, Cloud Liquid Water Content and Total Columns Precipitable Water*)



SDR ID#: 15
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

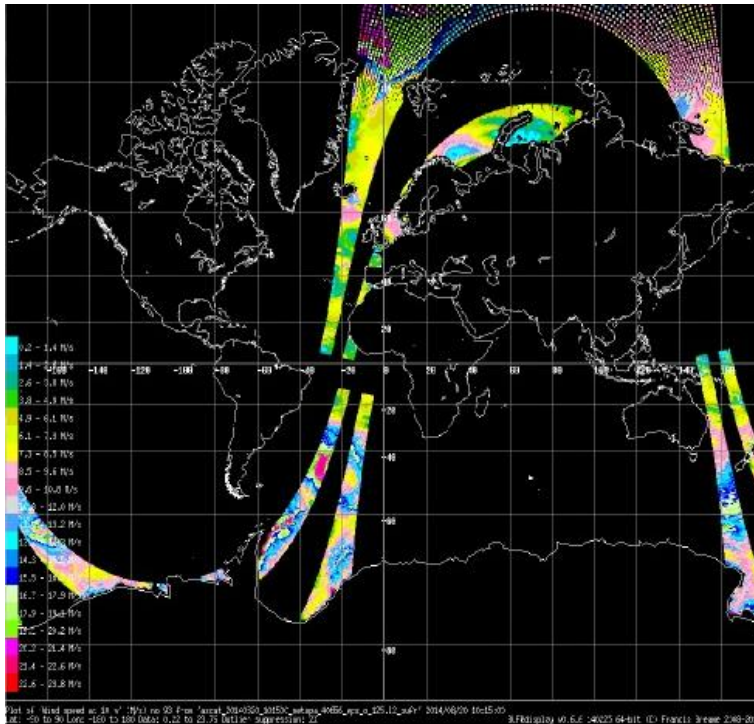
- **METOP B - Advanced TIROS Operational Sounder - ATOVS – Global** (*Temperature Profiles, Humidity Profiles, Surface Temperatures, Cloud Top Temperatures, Cloud Top Pressure, Effective Cloud Amount, Cloud Liquid Water Content and Total Columns Precipitable Water*)



SDR ID#: 15
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 – ASCAT Winds and Soil Moisture at 12.5 and 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*)



SDR ID#: 37a / 43

Format: BUFR

Average Sizes:

385 kB (12.5 km) / 95 kB (25 km)

Frequency: 3 minutes per grid size

Max n° of files a day: 480 per grid size

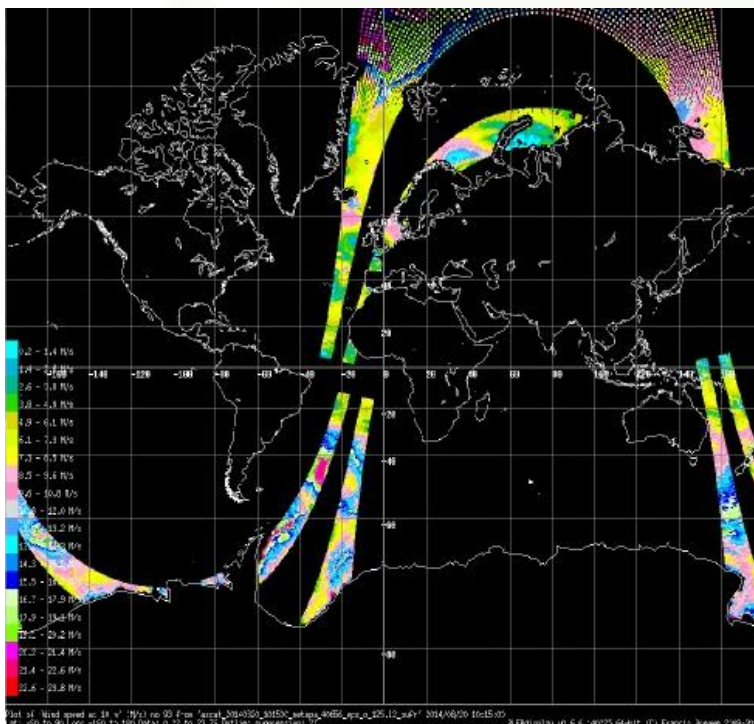
Satellite: METOP A

Instrument: ASCAT

Naming Conventions:

ascat_YYYYMMDD_HHMMSS_metopa_orbit#_eps_0_125.i2_buf
ascat_YYYYMMDD_HHMMSS_metopa_orbit#_eps_0_250.i2_buf

- **METOP B – ASCAT Winds and Soil Moisture at 12.5 and 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*)



SDR ID#: 37a / 43

Format: BUFR

Average Sizes:

385 kB (12.5 km) / 95 kB (25 km)

Frequency: 3 minutes per grid size

Max n° of files a day: 480 per grid size

Satellite: METOP B

Instrument: ASCAT

Naming Conventions:

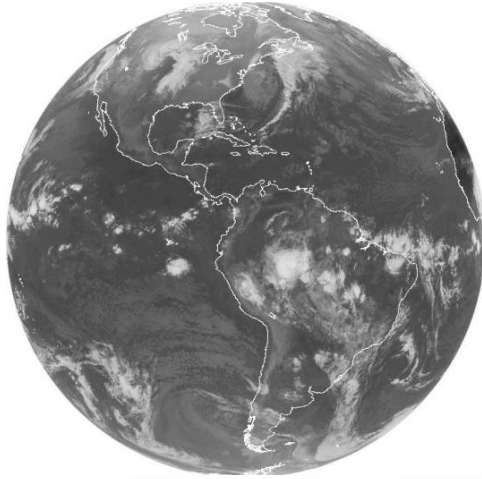
ascat_YYYYMMDD_HHMMSS_metopb_orbit#_eps_0_125.i2_buf
ascat_YYYYMMDD_HHMMSS_metopb_orbit#_eps_0_250.i2_buf



PROVIDER: RANET

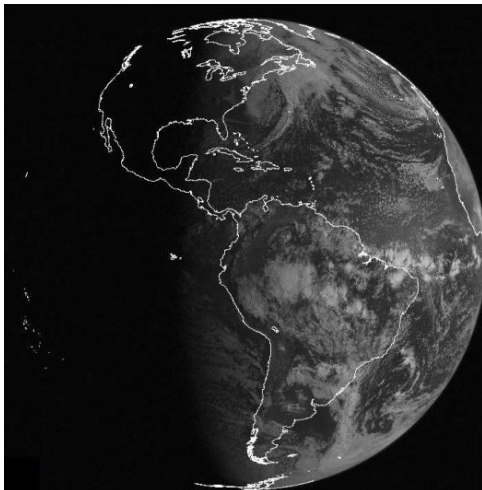
(Radio and Internet for the Communication of Hydro-Meteorological and Climate Information for Development - USA)

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



SDR ID#: 1 / 4
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**



SDR ID#: 1 / 4
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs3

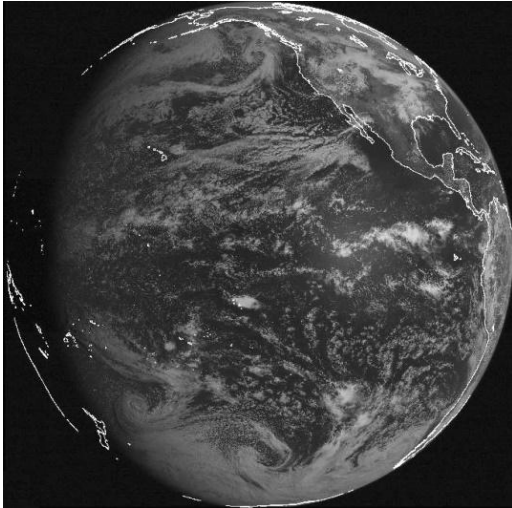
- **GOES-15 - Infrared Channel - Full Disk - Pacific + North America + Western South America**



SDR ID#: 4
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs4

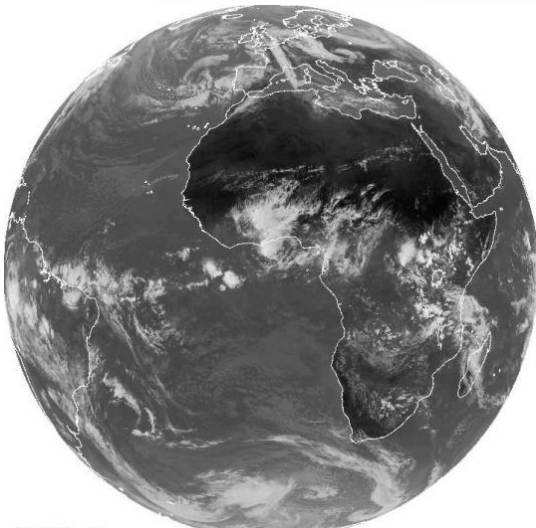


- GOES-15 - Visible Channel - Full Disk - Pacific Ocean



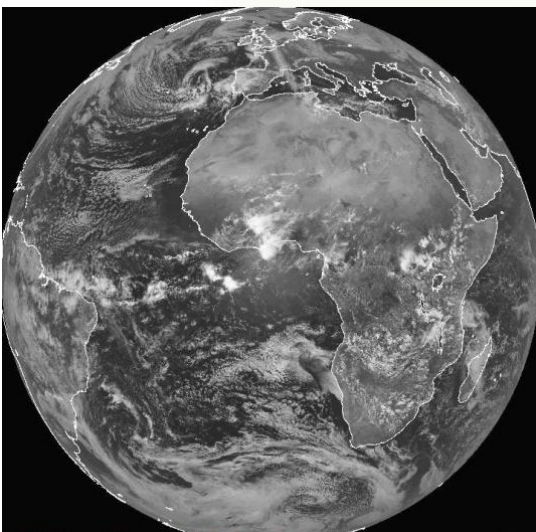
SDR ID#: 4
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs5

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



SDR ID#: 5
Format: JPEG
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs6

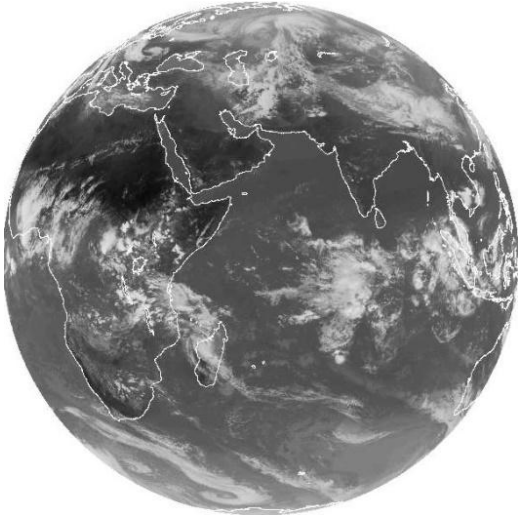
- METEOSAT-10 - Visible Channel - Full Disk - South America + Africa + Europe



SDR ID#: 5
Format: JPEG
Average Size: 60 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs7

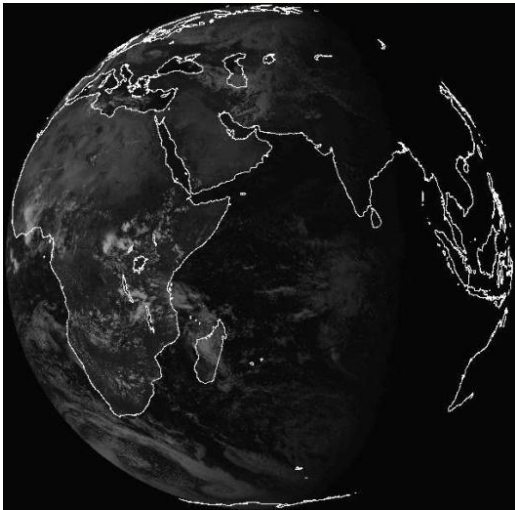


- **METEOSAT-7 - Infrared Channel - Full Disk - Africa + Asia**



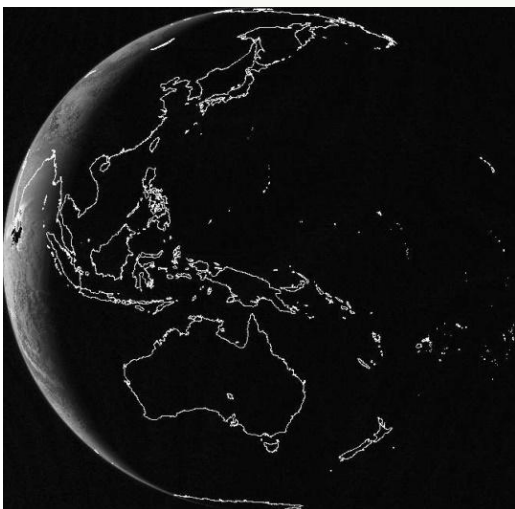
Format: JPEG
Average Size: 55 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs8

- **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

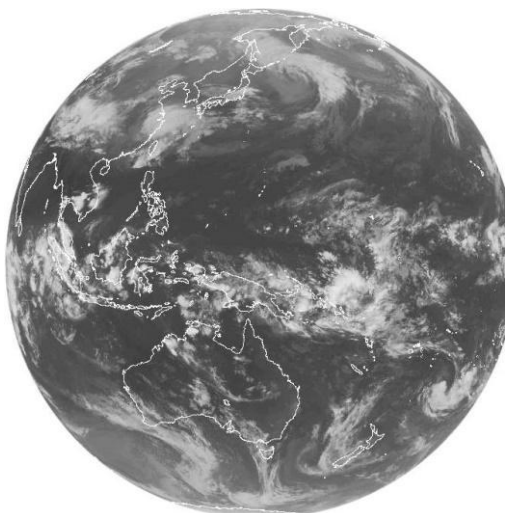
- **MTSAT-2 - Visible Channel - Full Disk - Asia + Oceania**



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

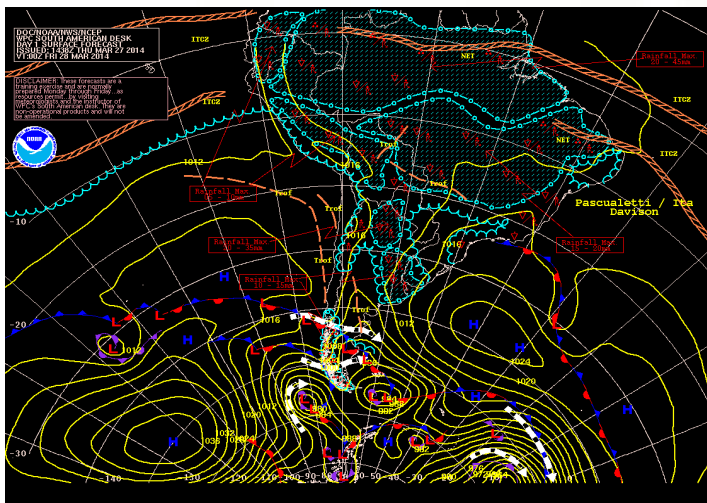


- MTSAT-2 - Infrared Channel - Full Disk - Asia + Oceania



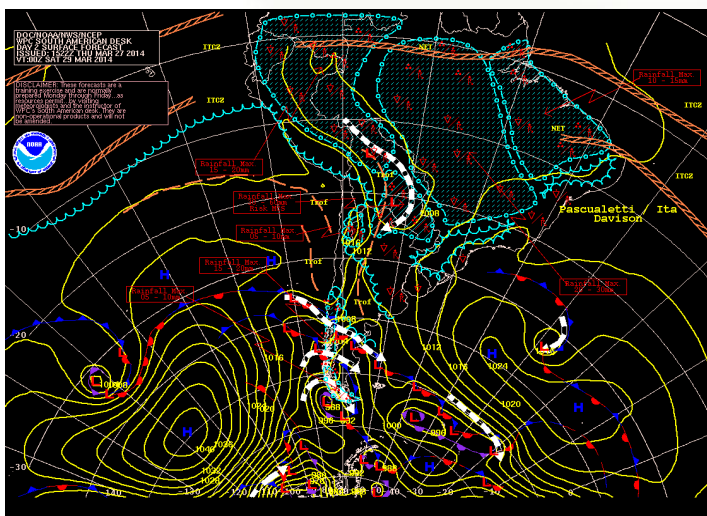
Format: JPEG
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs11

- 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

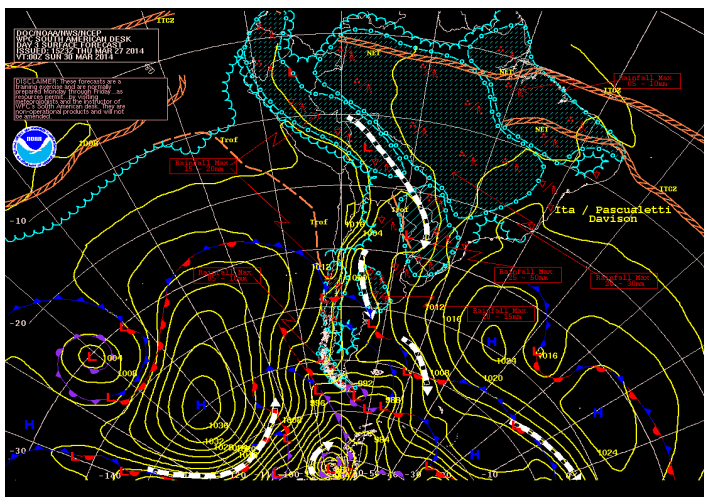
- Surface Forecast - Day 2 - South America



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

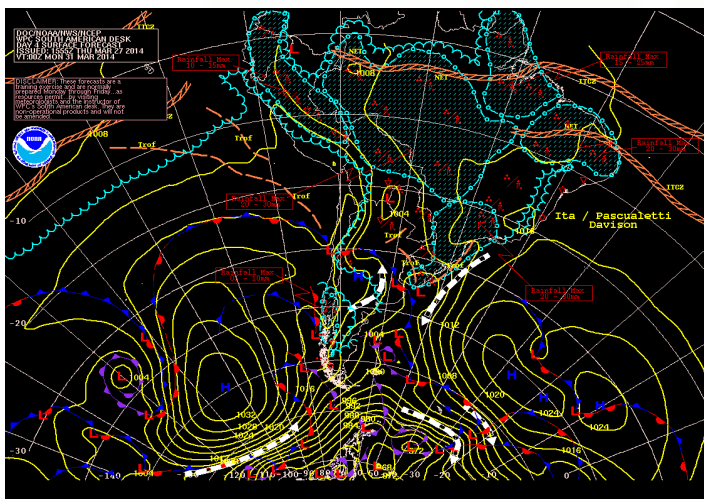


- **Surface Forecast - Day 3 - South America**



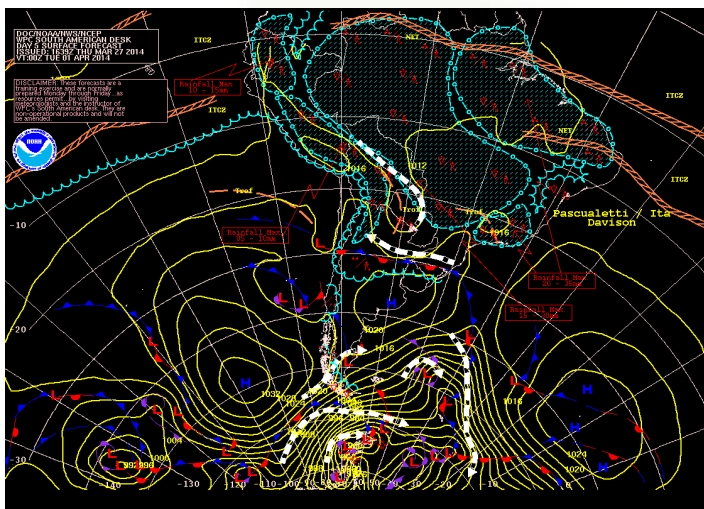
Format: GIF
Average Size: 65 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs14

- **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

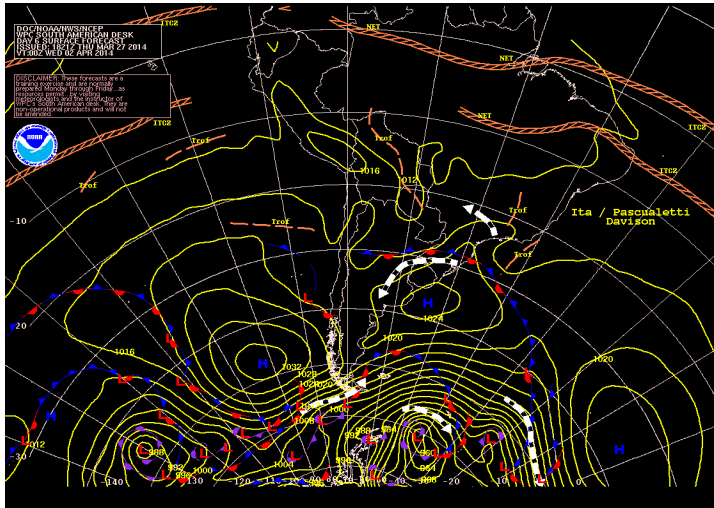
- **Surface Forecast - Day 5 - South America**



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

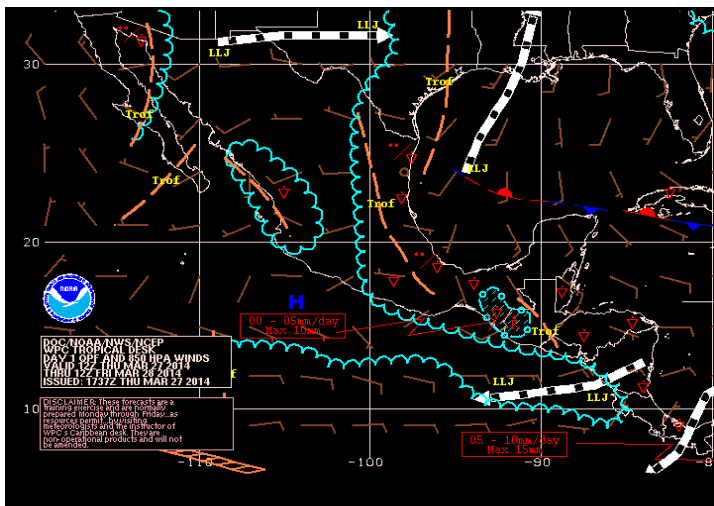


- **Surface Forecast - Day 6 - South America**



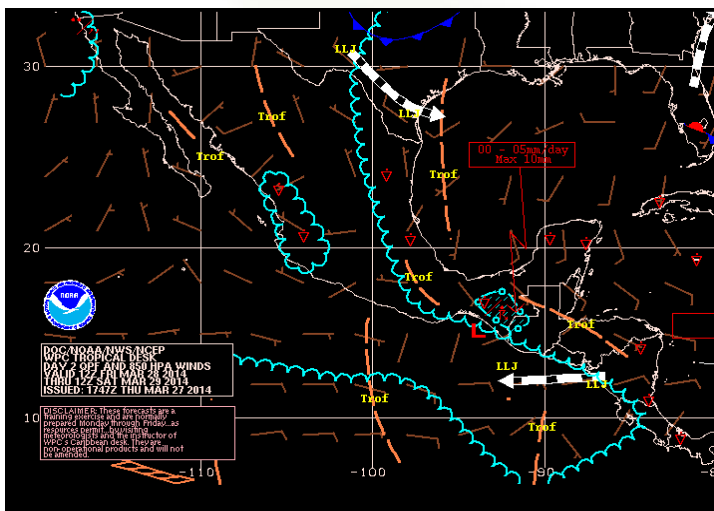
Format: GIF
Average Size: 55 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs17

- **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

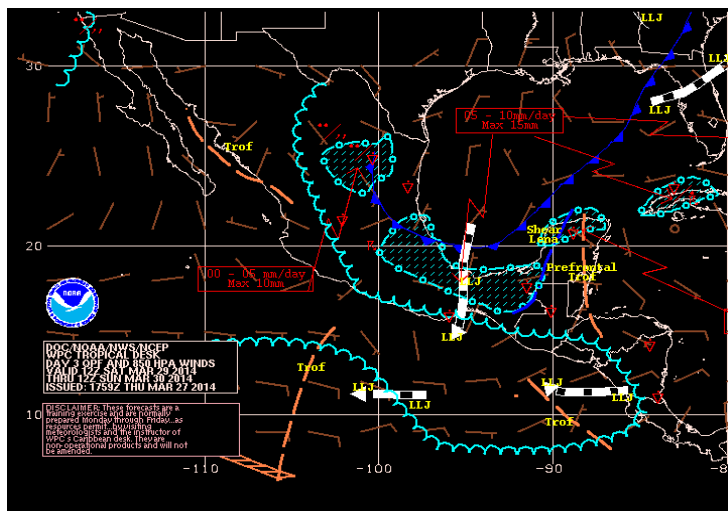
- **Quantitative Precipitation Forecast and Winds – Day 2 - West Caribbean**



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

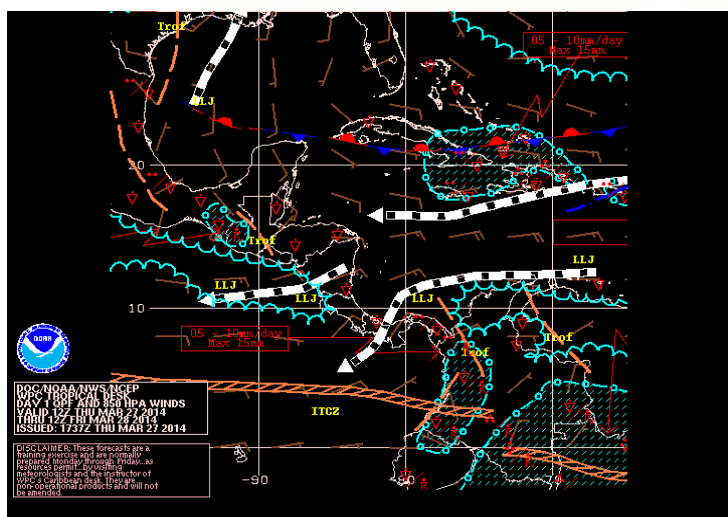


- Quantitative Precipitation Forecast and Winds – Day 3 - West Caribbean



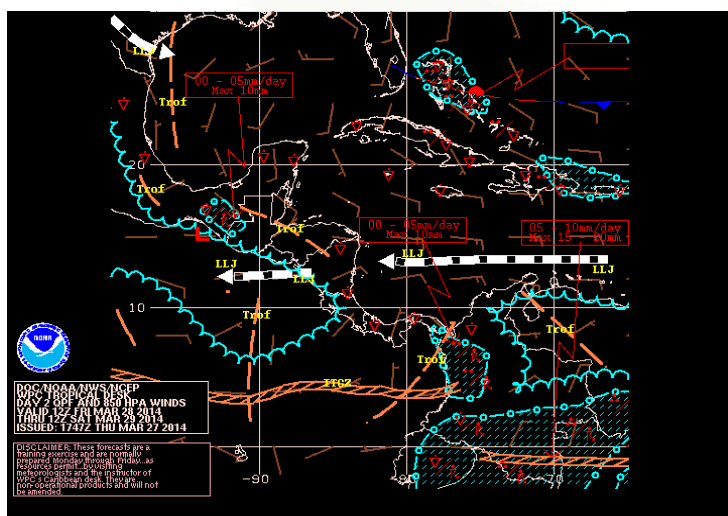
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs20

- 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

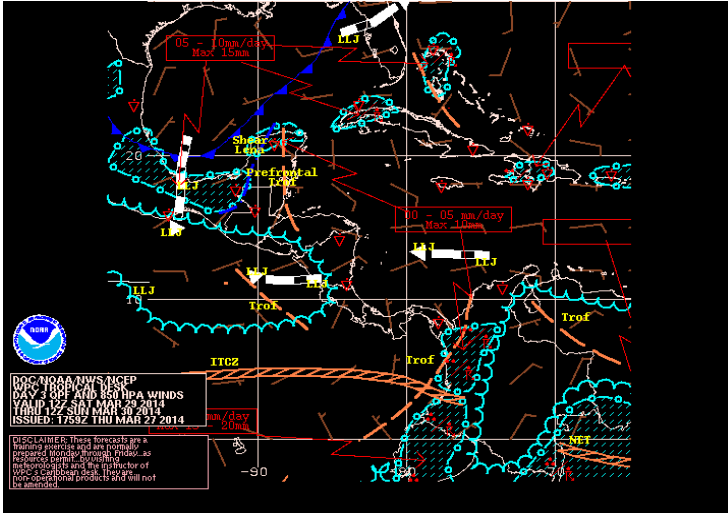
- Quantitative Precipitation Forecast and Winds – Day 2 - Central Caribbean



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

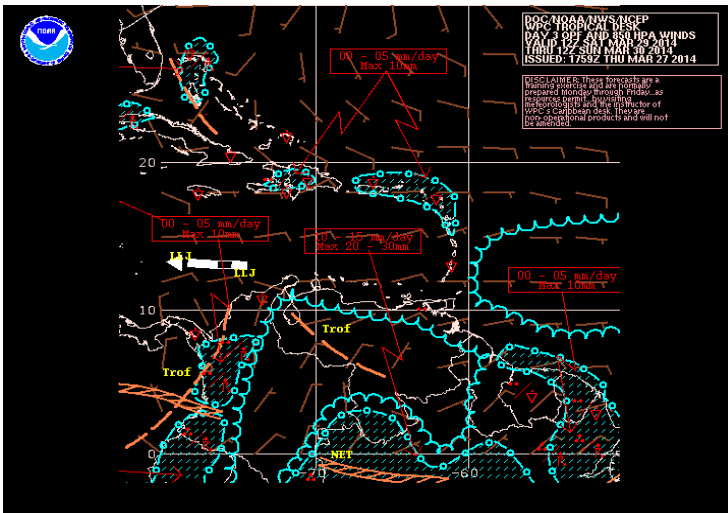


• **Quantitative Precipitation Forecast and Winds – Day 3 - Central Caribbean**



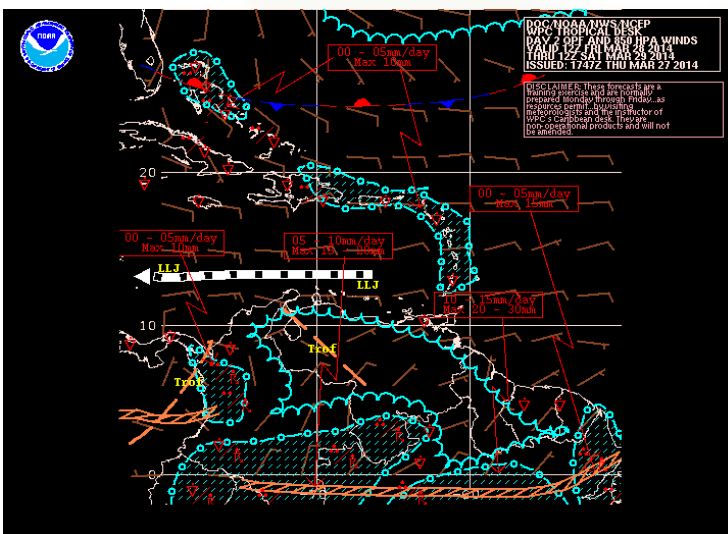
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs23

• **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

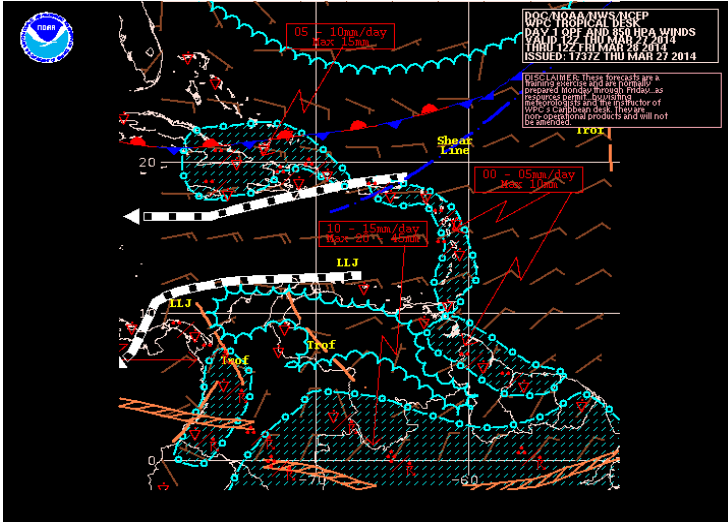
• **Quantitative Precipitation Forecast and Winds – Day 2 - East Caribbean**



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

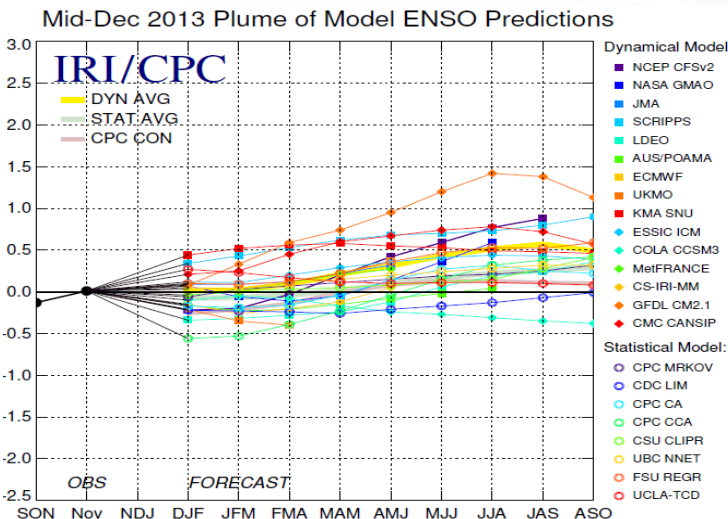


• **Quantitative Precipitation Forecast and Winds – Day 3 - East Caribbean**



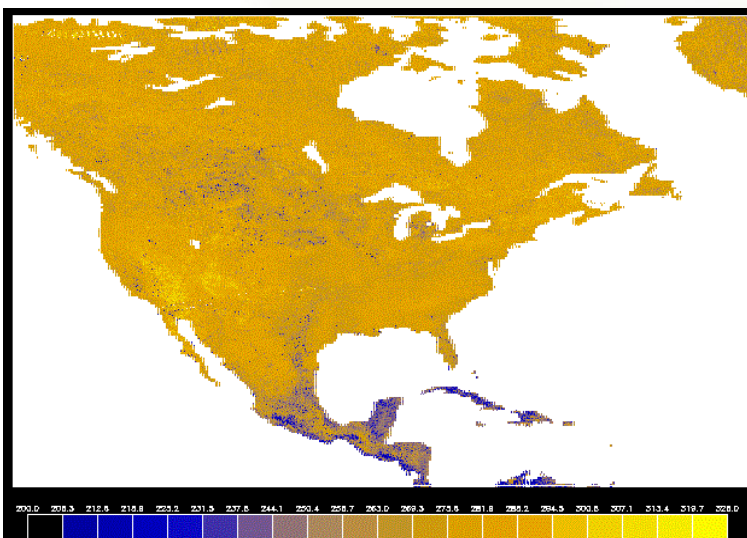
Format: GIF
Average Size: 30 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs26

• **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

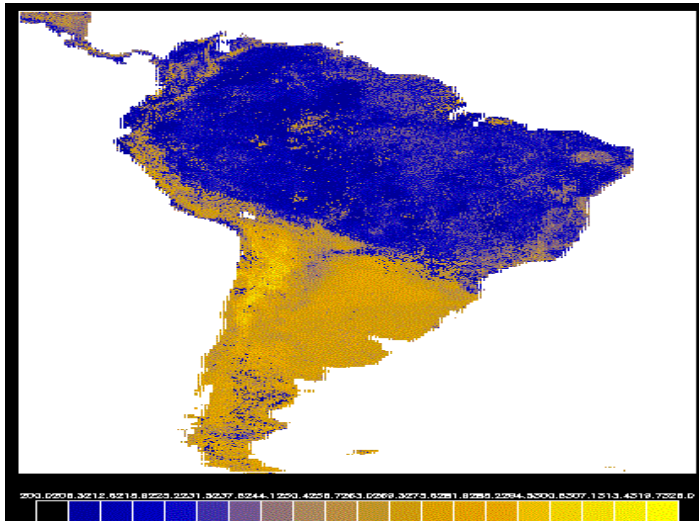
• **Precipitable Water Index - PWI - North America**



SDR ID#: 23
Format: GIF
Average Size: 55 kB
Frequency: Daily
Naming Convention: rbs28

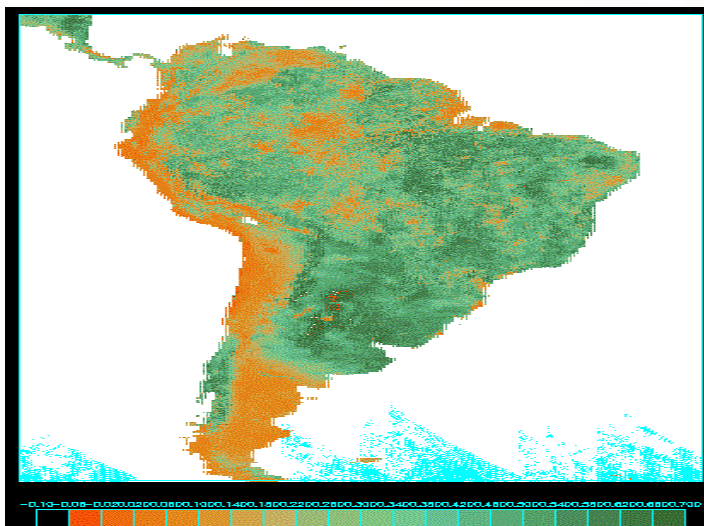


- **Precipitable Water Index - PWI - South America**



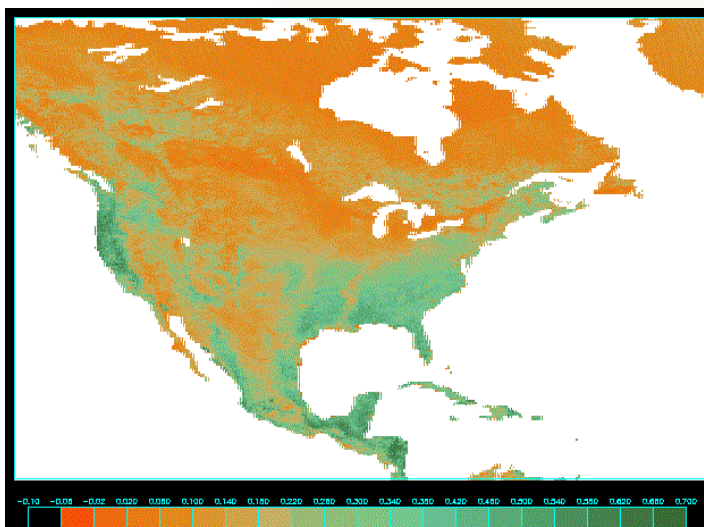
SDR ID#: 23
Format: GIF
Average Size: 35 kB
Frequency: Daily
Naming Convention: rbs29

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



SDR ID#: 51
Format: GIF
Average Size: 85 kB
Frequency: Daily
Naming Convention: rbs30

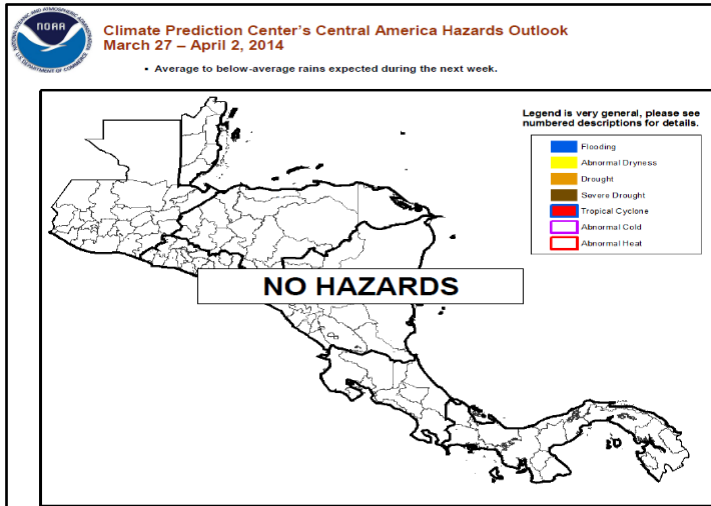
- **Normalized Difference Vegetation Index - NDVI - North America**



SDR ID#: 51
Format: GIF
Average Size: 140 kB
Frequency: Daily
Naming Convention: rbs31

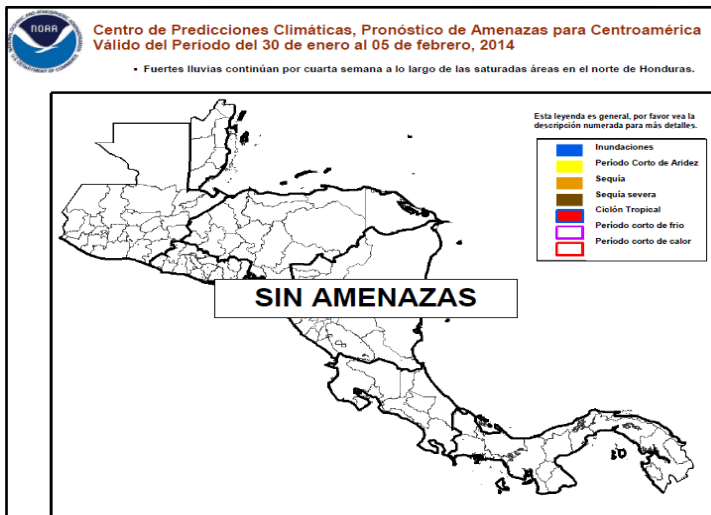


• Hazards Outlook - Central America - English



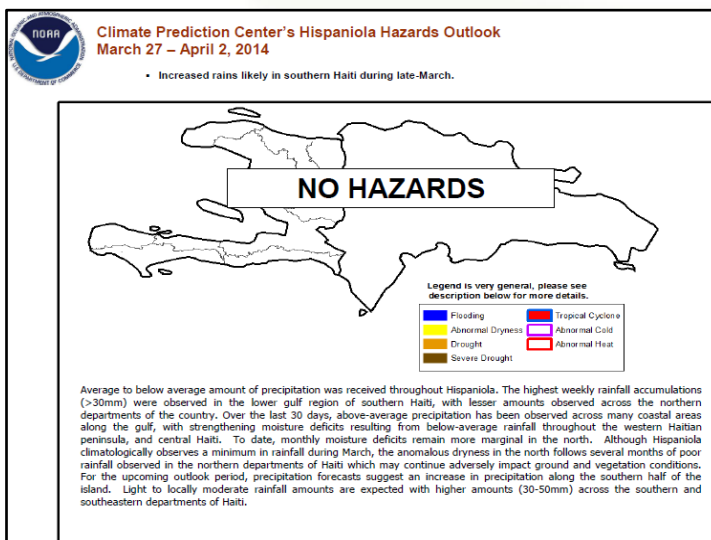
Format: PDF
Average Size: 320 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs32

• Hazards Outlook - Central America - Spanish



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

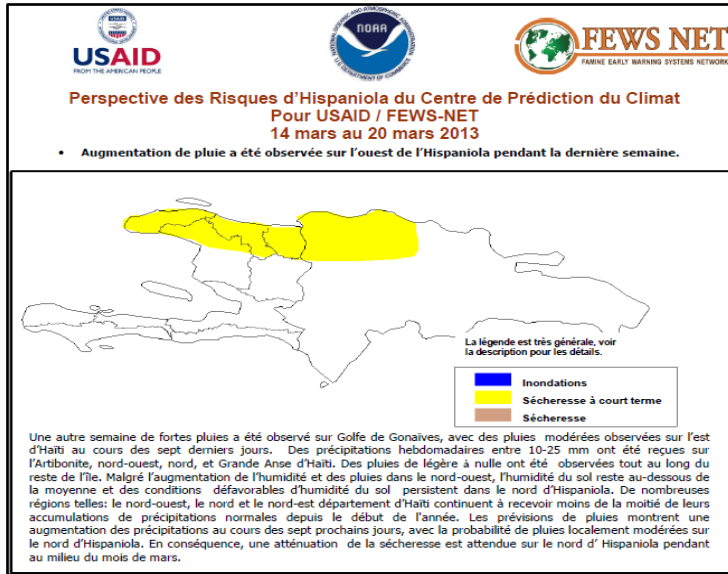
• Hazards Outlook - Hispaniola Island - English



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

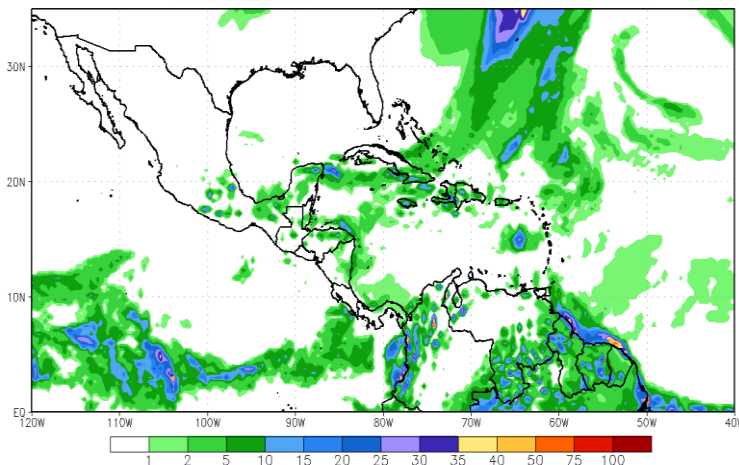


• Hazards Outlook - Hispaniola Island - French



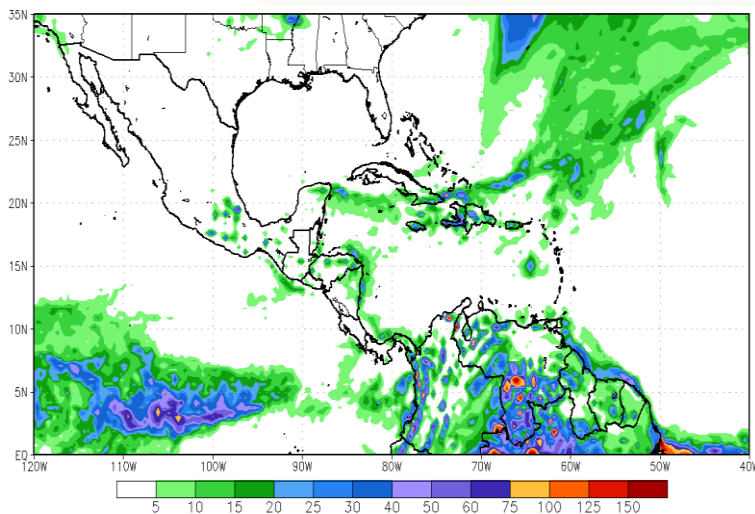
Format: PDF
Average Size: 370 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs35

• 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

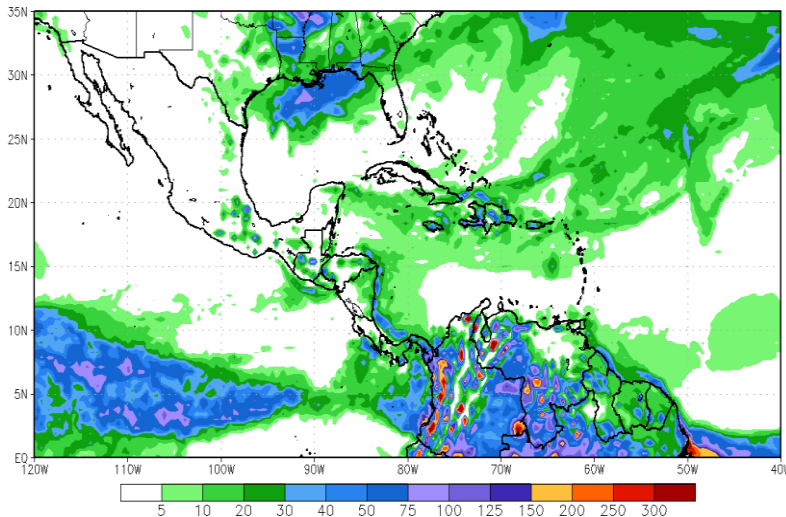
• Accumulated Precipitation Forecast - 3 Days - Central America



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

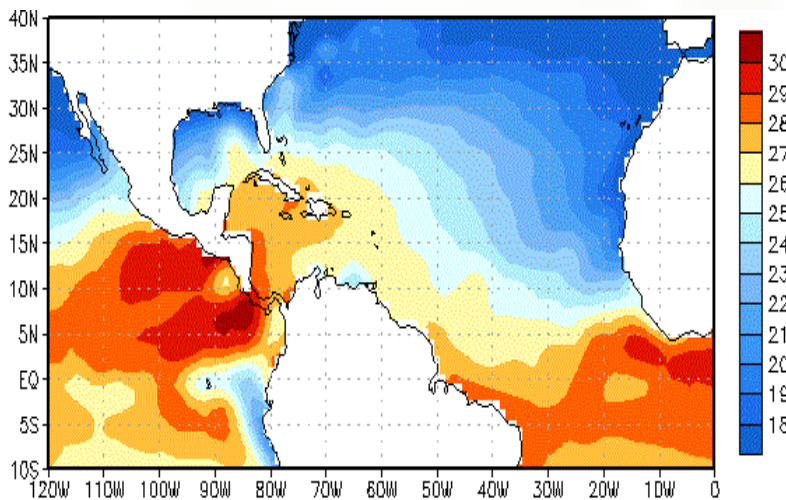


• **Accumulated Precipitation Forecast - 1 Week - Central America**



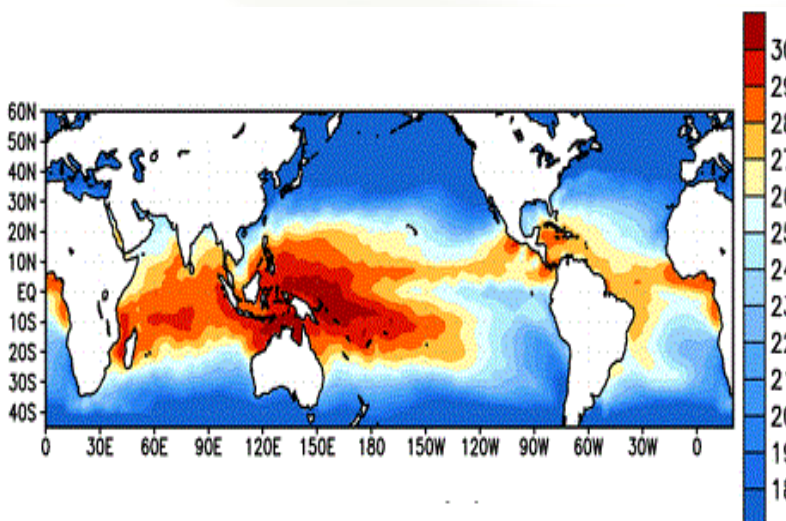
Format: GIF
Average Size: 80 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs38

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



SDR ID#: 28
Format: GIF
Average Size: 110 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs39

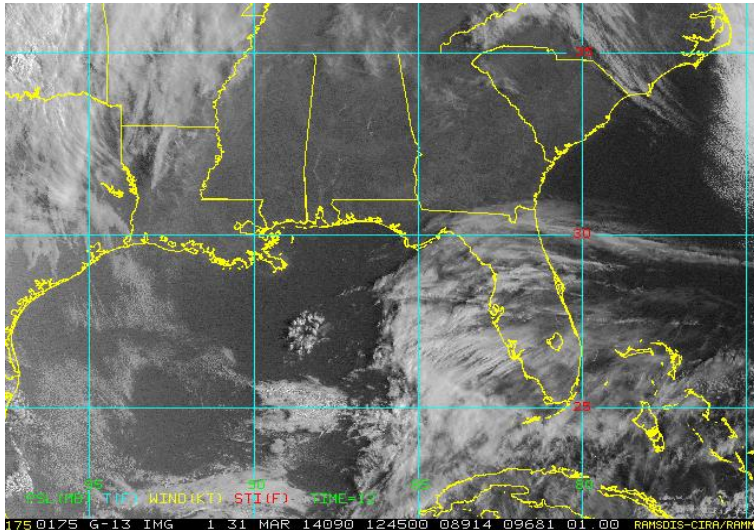
• **Sea Surface Temperature - Global**



SDR ID#: 28
Format: GIF
Average Size: 110 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs40

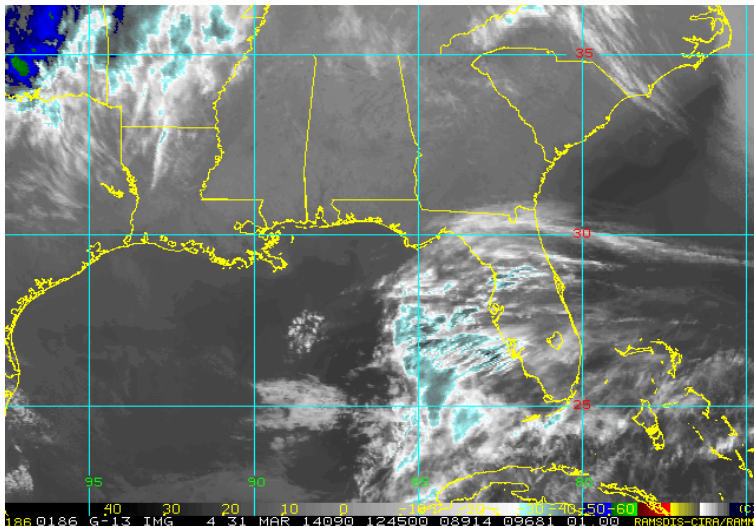


- **GOES-13 - Visible and Short Wave Channels – Mexico Gulf**



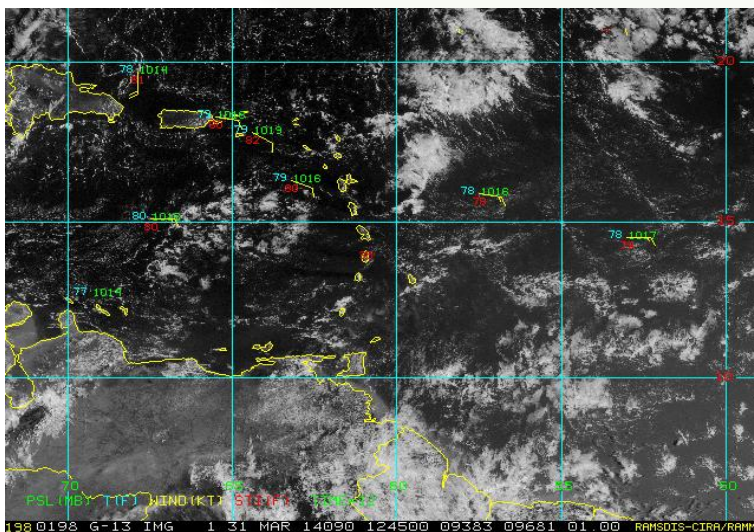
SDR ID#: 3 / 4
Format: GIF
Average Size: 215 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs41

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



SDR ID#: 4
Format: GIF
Average Size: 135 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs42

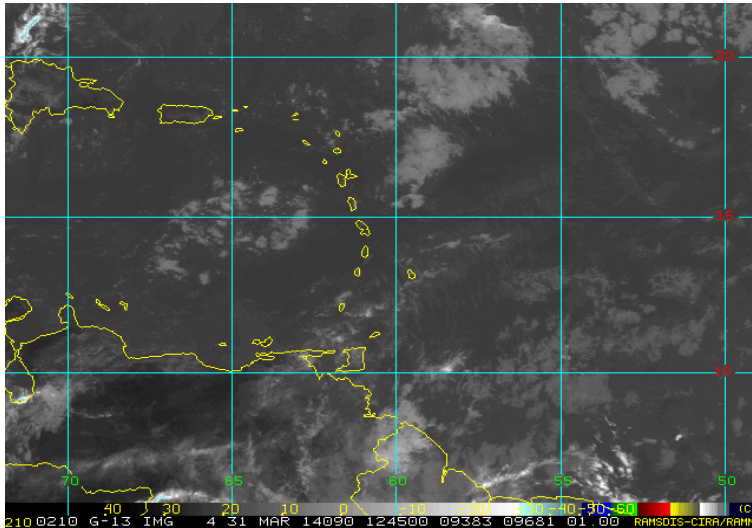
- **GOES-13 - Visible and Short Wave Channels – East Caribbean**



SDR ID#: 3 / 4
Format: GIF
Average Size: 210 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs43

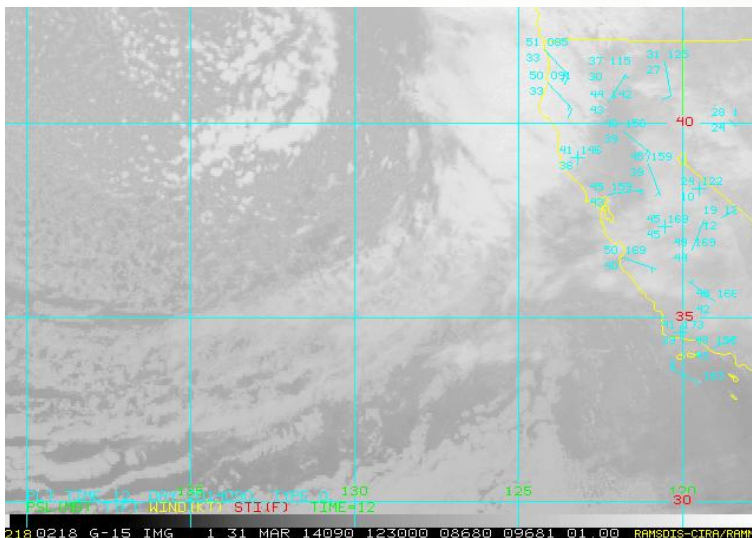


- **GOES-13 - Infrared Channel Enhanced - East Caribbean**



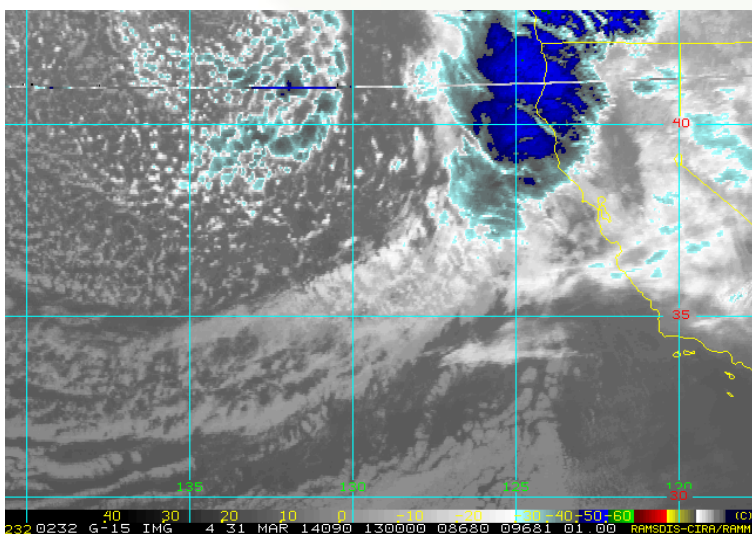
SDR ID#: 4
Format: GIF
Average Size: 120 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs44

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



SDR ID#: 3 / 4
Format: GIF
Average Size: 220 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs45

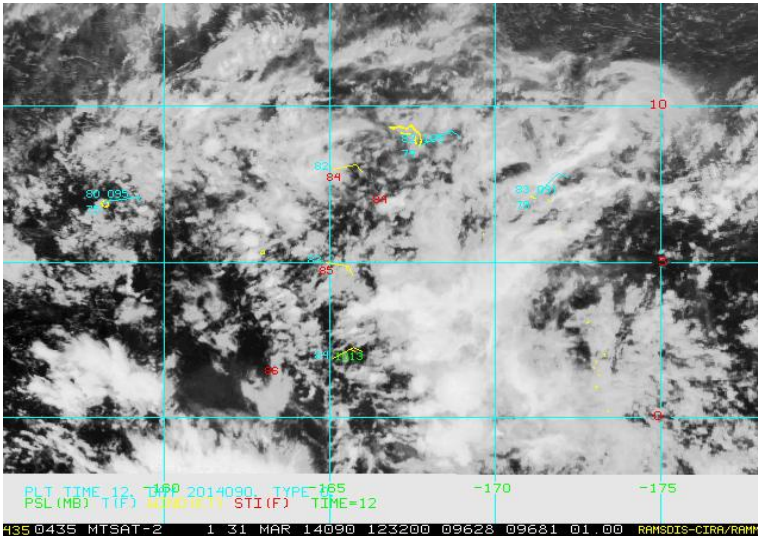
- **GOES-15 - Infrared Channel Enhanced – US Northeast Pacific Region**



SDR ID#: 4
Format: GIF
Average Size: 120 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs46

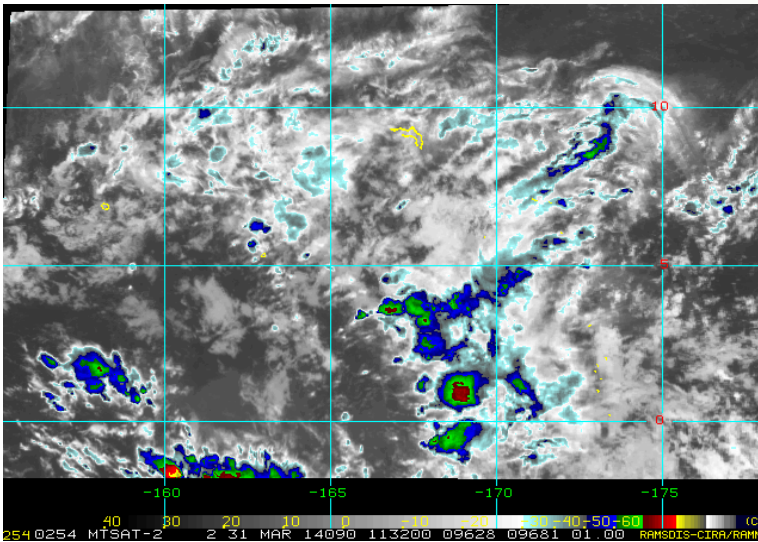


• **MTSAT-2 - Visible and Short Wave Channels - Philippine sea**



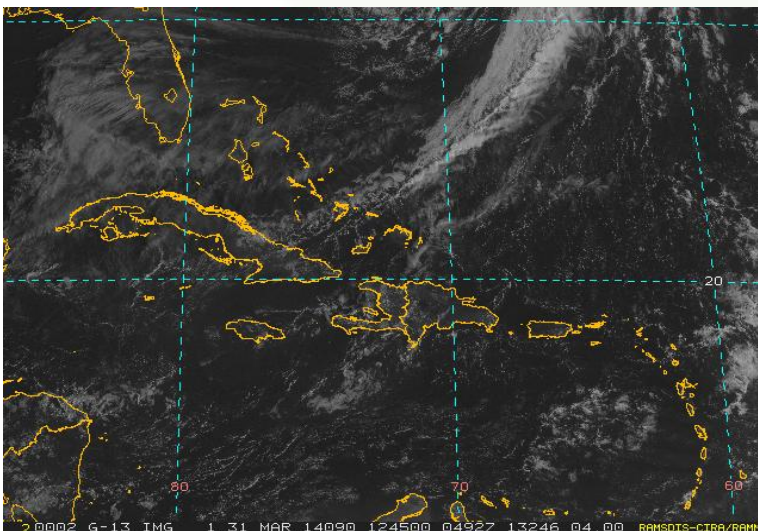
Format: GIF
Average Size: 230 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs47

• **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

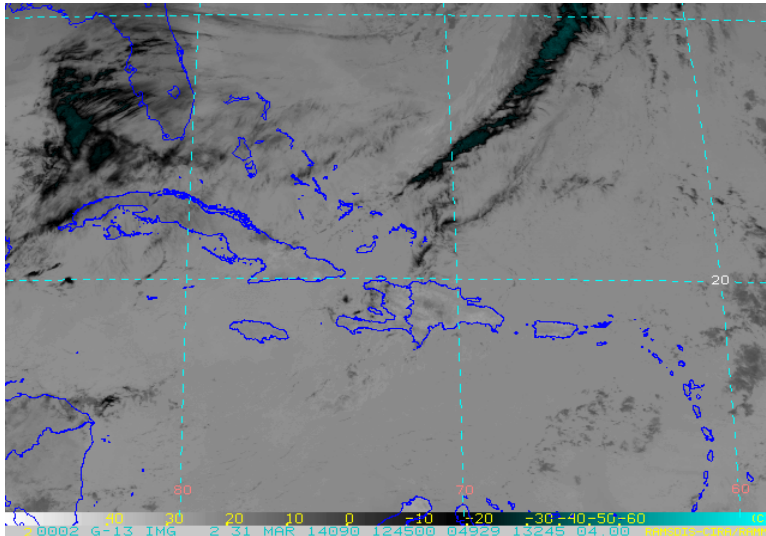
• **GOES-13 - Visible Channel - Caribbean**



SDR ID#: 4
Format: GIF
Average Size: 150 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs49

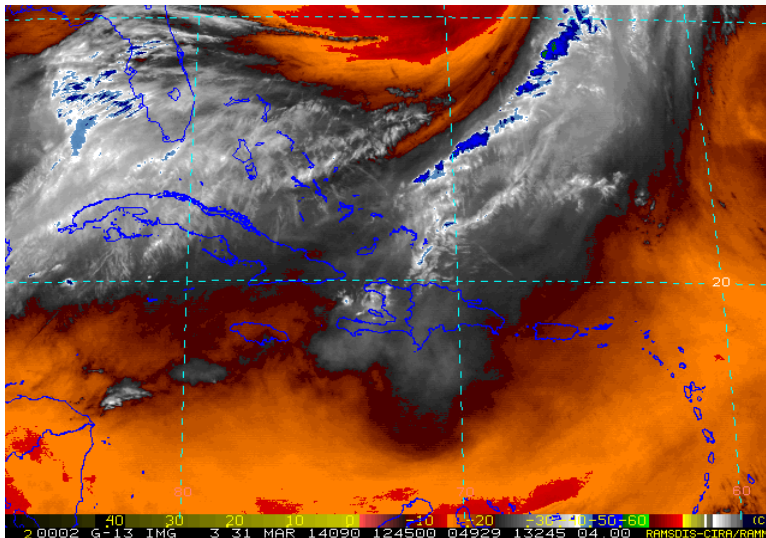


- **GOES-13 - Short Wave Channel Enhanced - Caribbean**



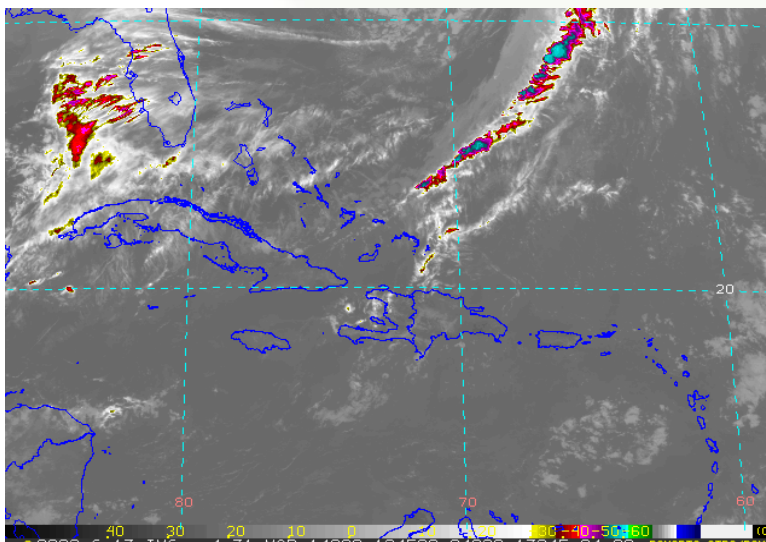
SDR ID#: 3 / 4
Format: GIF
Average Size: 145 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs50

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



SDR ID#: 4
Format: GIF
Average Size: 110 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs51

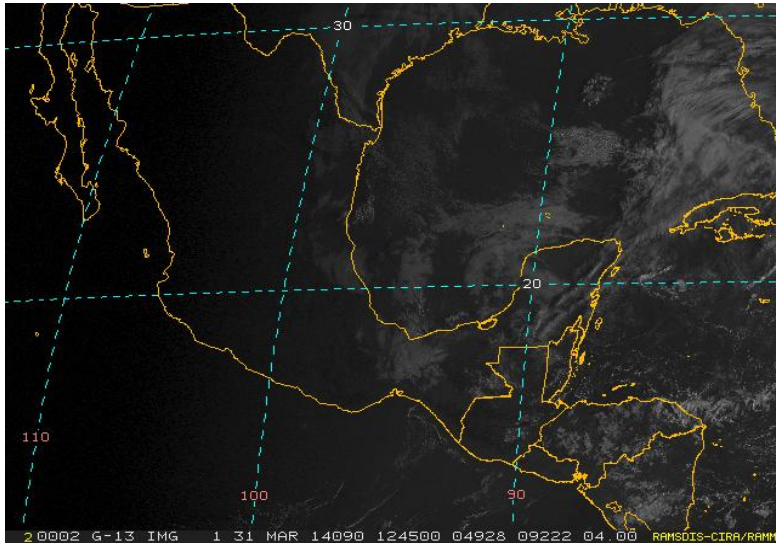
- **GOES-13 - Infrared Channel Enhanced - Caribbean**



SDR ID#: 4
Format: GIF
Average Size: 120 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs52

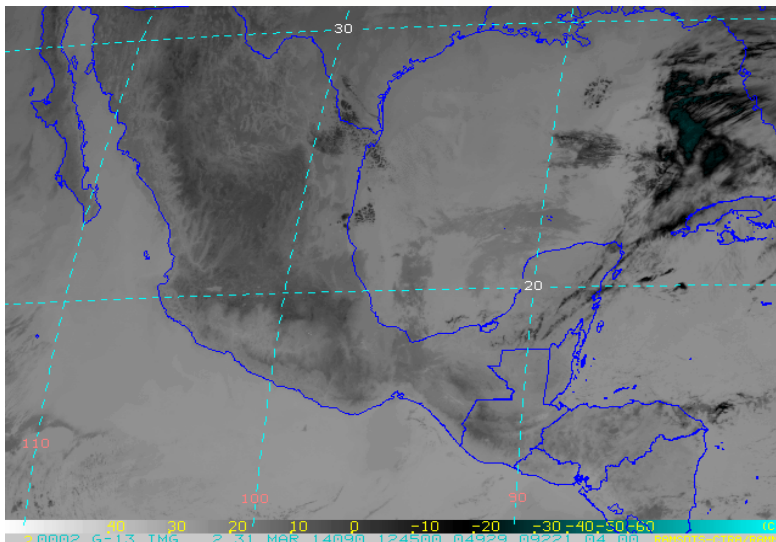


• **GOES-13 - Visible Channel - Mexico**



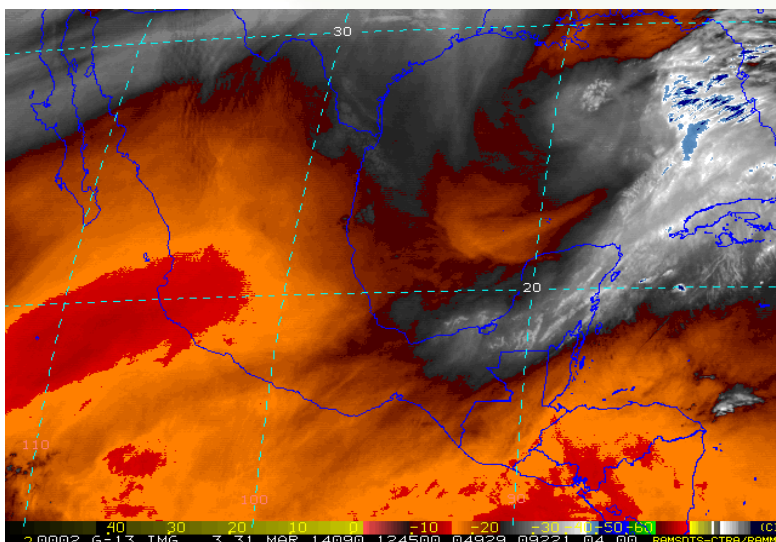
SDR ID#: 4
Format: GIF
Average Size: 165 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs53

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



SDR ID#: 3
Format: GIF
Average Size: 185 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs54

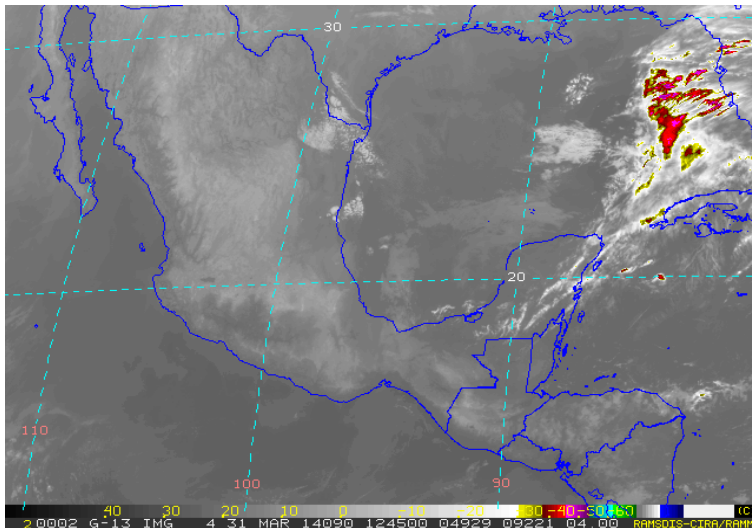
• **GOES-13 - Water Vapour Channel Enhanced - Mexico**



SDR ID#: 4
Format: GIF
Average Size: 125 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs55

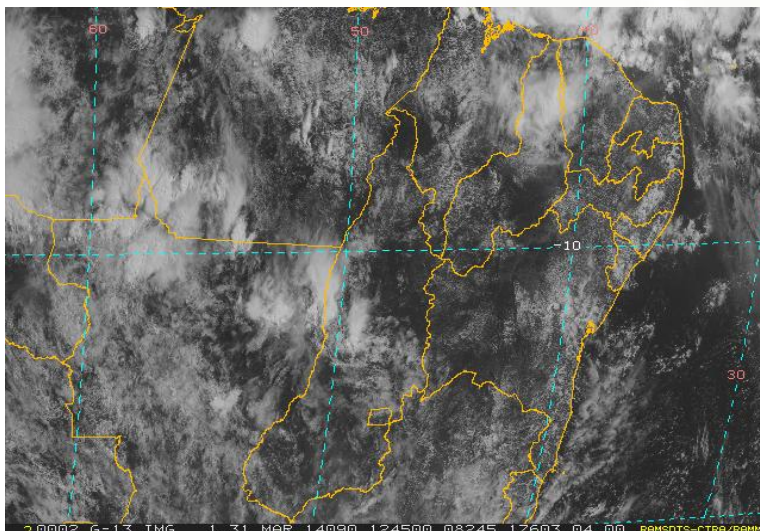


- **GOES-13 - Infrared Channel Enhanced - Mexico**



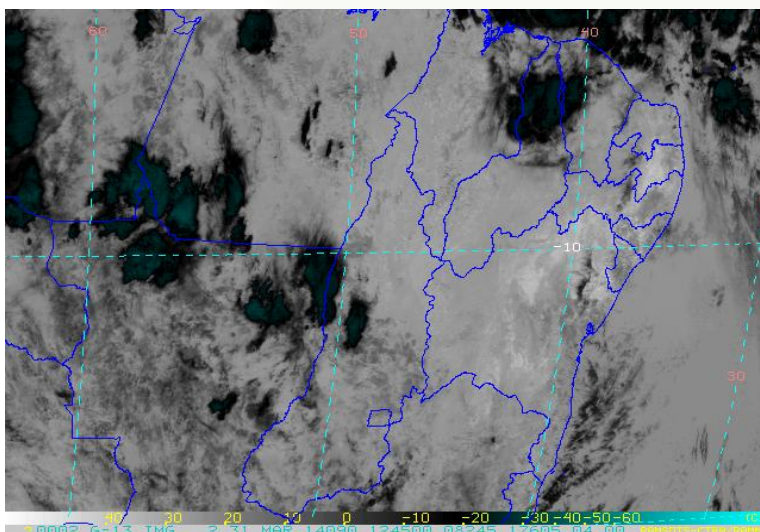
SDR ID#: 4
Format: GIF
Average Size: 155 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs56

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



SDR ID#: 1
Format: GIF
Average Size: 130 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs57

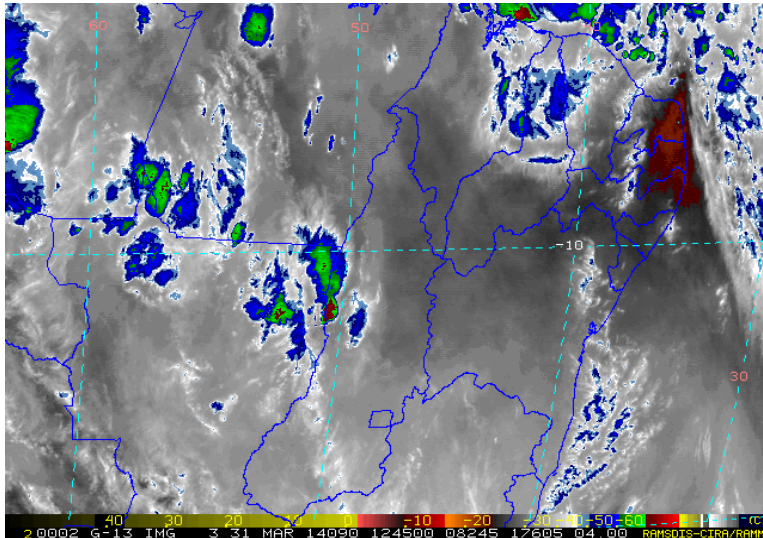
- **GOES-13 - Short Wave Channel - Northeastern Brazil**



SDR ID#: 3
Format: GIF
Average Size: 135 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs58

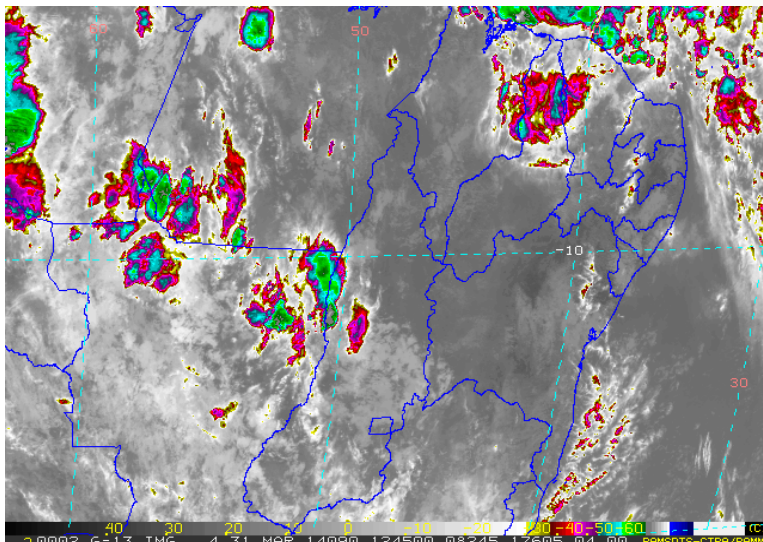


- **GOES-13 - Water Vapor Channel Enhanced - Northeastern Brazil**



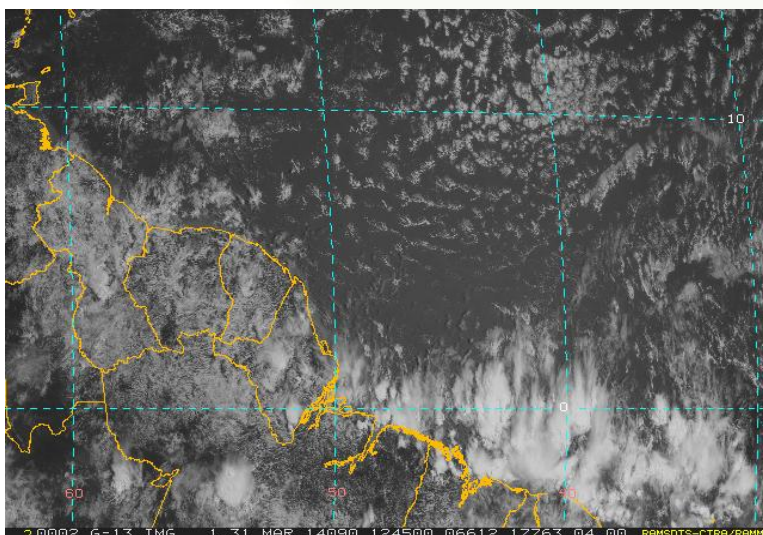
SDR ID#: 1
Format: GIF
Average Size: 75 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs59

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



SDR ID#: 1
Format: GIF
Average Size: 100 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs60

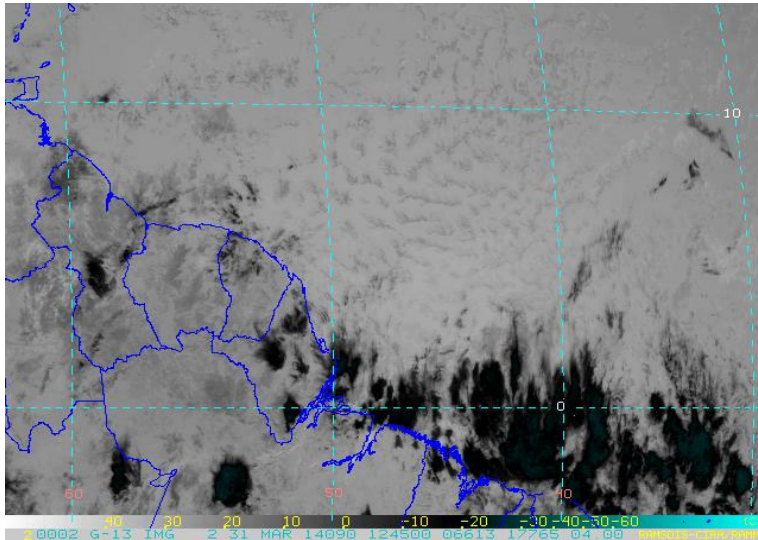
- **GOES-13 - Visible Channel - Northeastern South America**



SDR ID#: 1
Format: GIF
Average Size: 150 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs61

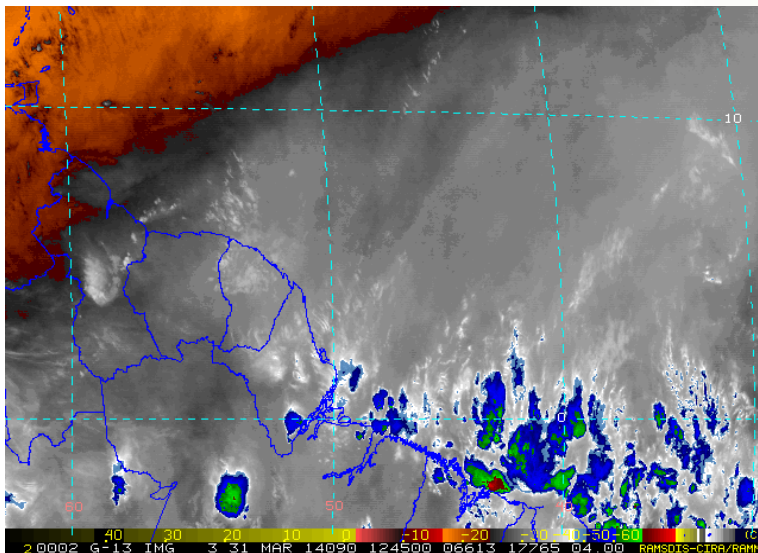


- GOES-13 - Short Wave Channel Enhanced - Northeastern South America**



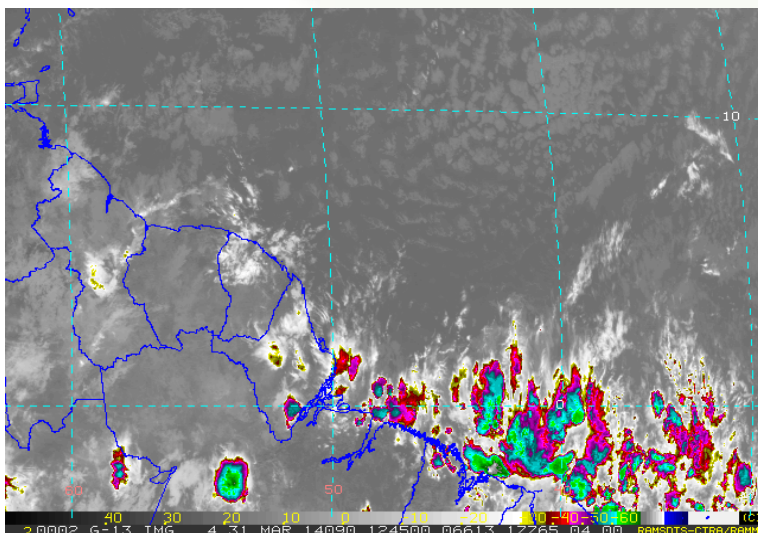
SDR ID#: 3
Format: GIF
Average Size: 155 kB
Frequency: 60 (overwriting)
Max n° of files a day: 24
Naming Convention: rbs62

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



SDR ID#: 1
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**



SDR ID#: 1
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

North American Drought Monitor

January 31, 2014

Released: Tuesday, February 18, 2014

<http://www.ncdc.noaa.gov/nadm.html>

Analysts:
 Canada - Trevor Hadwen
 Patrick Bell
 Mexico - Reynaldo Pascual
 Adolina Albanil
 U.S.A. - Anthony Artusa
 Richard Heim*

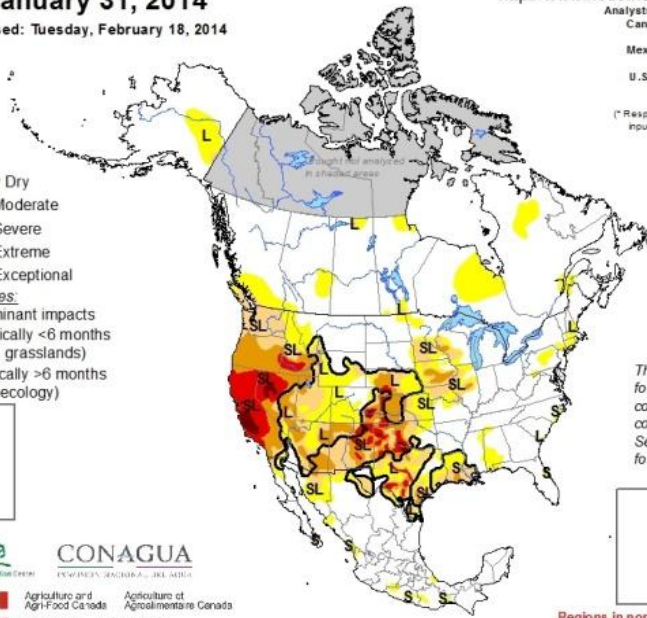
(* Responsible for collecting analysts' input & assembling the NA-DM map)

Intensity

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:
 Delineates dominant impacts

- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)



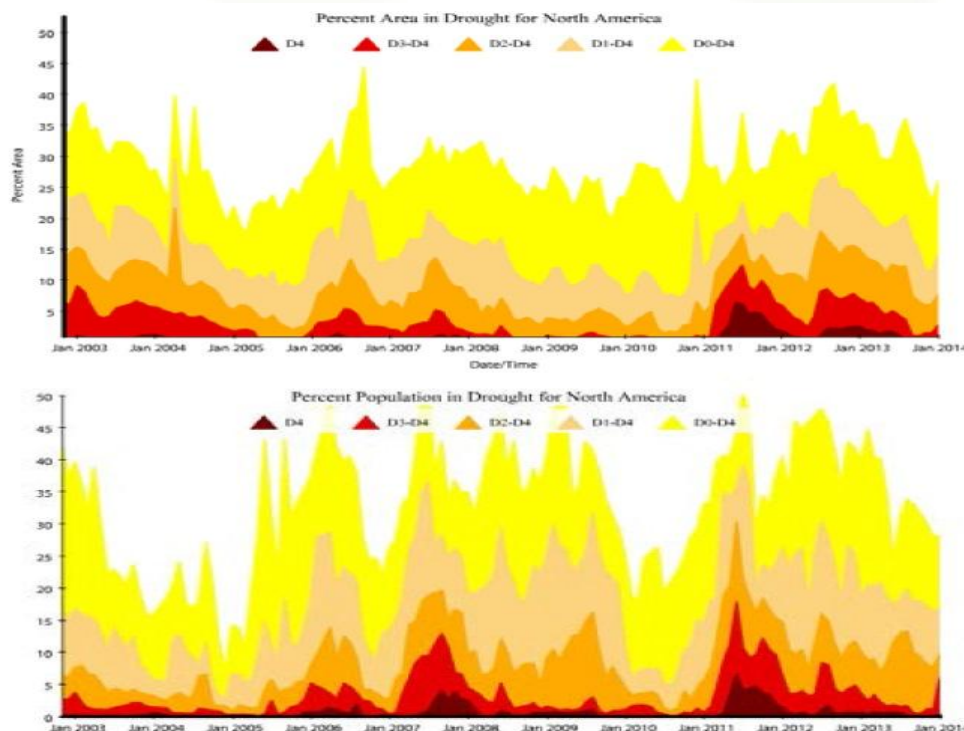
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text for a general summary.

SDR ID#: 39
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



Regions in northern Canada may not be as accurate as other regions due to limited information.

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



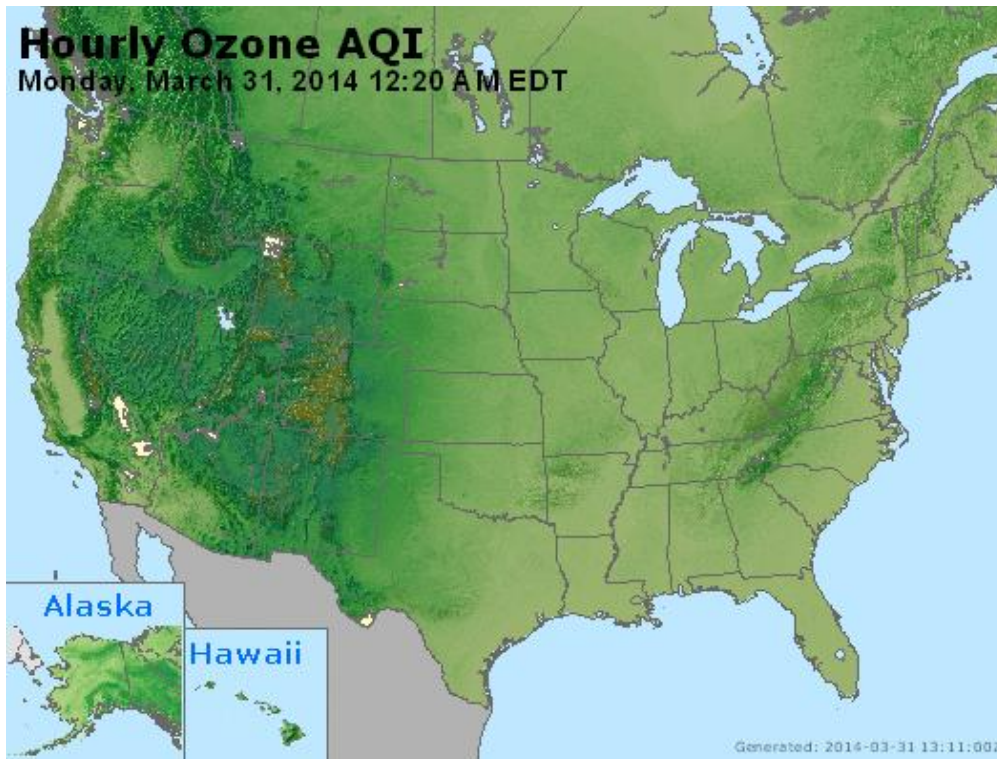
SDR ID#: 39
Format: PDF
Average Size: 118 kB
Frequency: Monthly
Naming Conventions:
 nadm-narr-YYYYMM
 nadm-narr-YYYYMM-sp
 nadm-narr-YYYYMM-fr



PROVIDER: USEPA

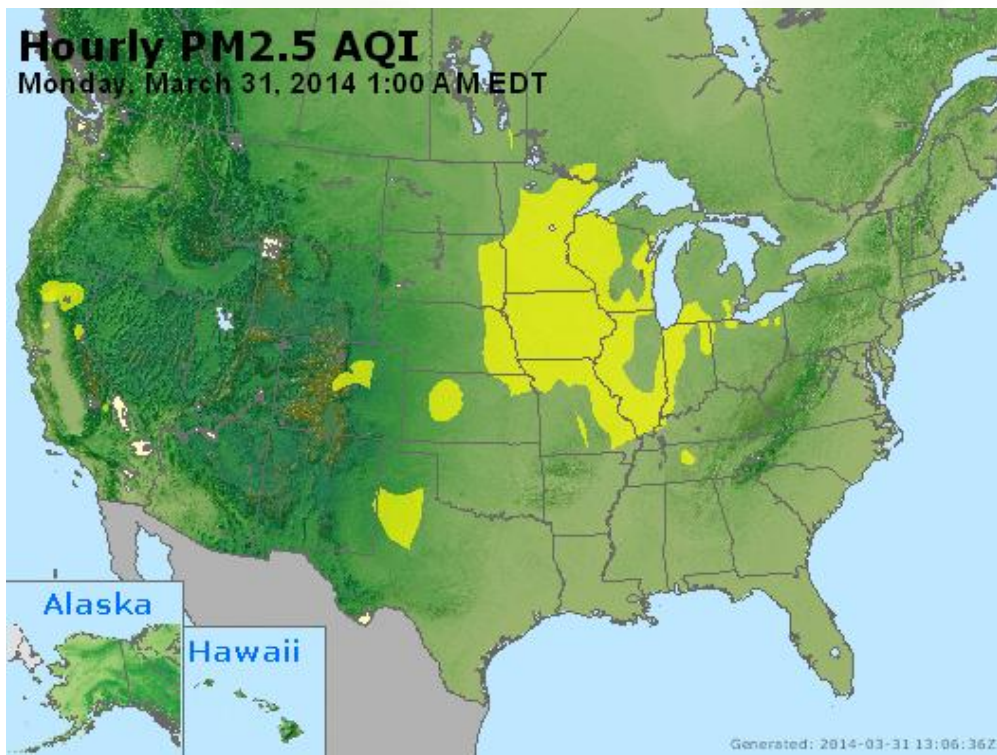
(US Environmental Protection Agency - USA)

- Real Time Ozone Animated - North America



SDR ID#: 49
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



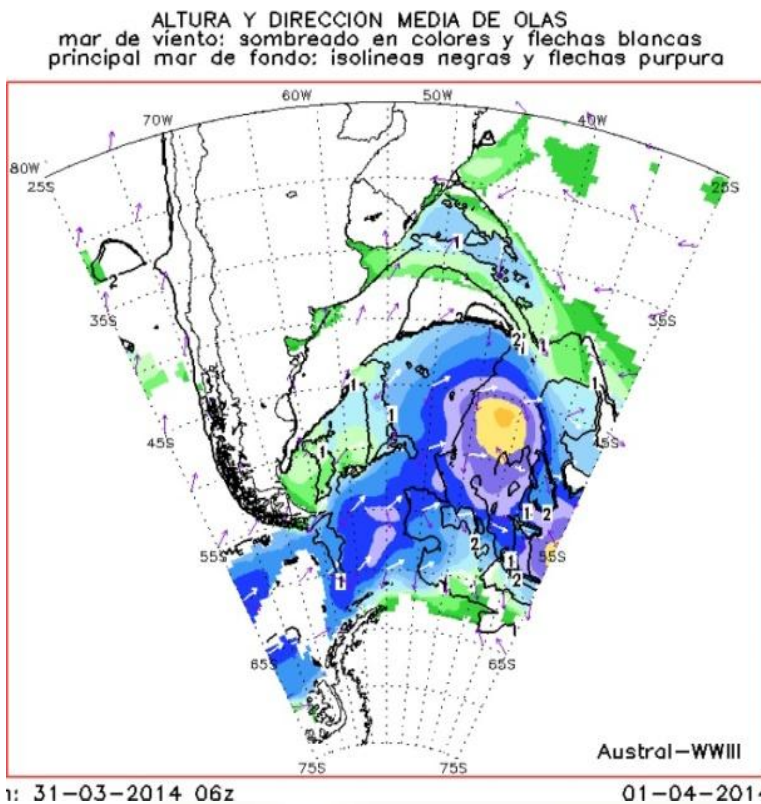
Format: GIF
Average Size: 45 kB
Frequency: 15 minutes
Max n° of files a day: 96
Naming Convention:
pm25-24a-super



PROVIDER: CONAE

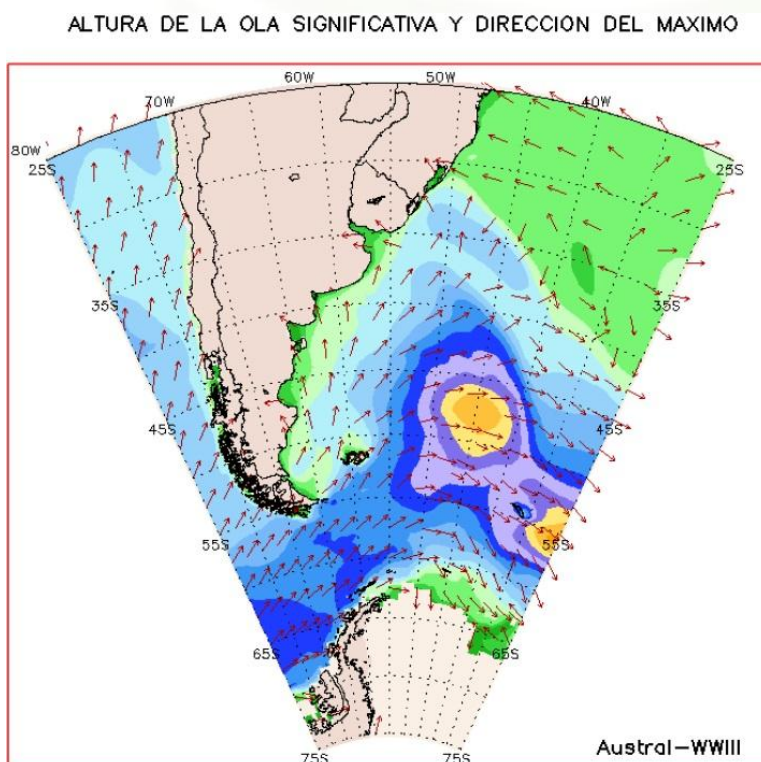
(National Space Activities Commission - Argentina)

- 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

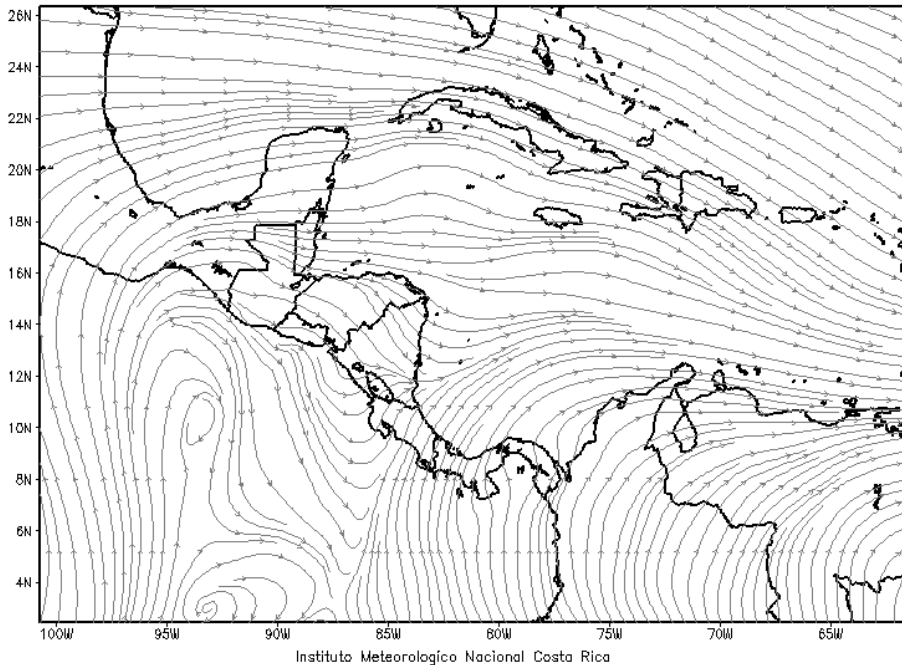


PROVIDER: IMN-CostaRica

(National Meteorological Institute – Costa Rica)

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

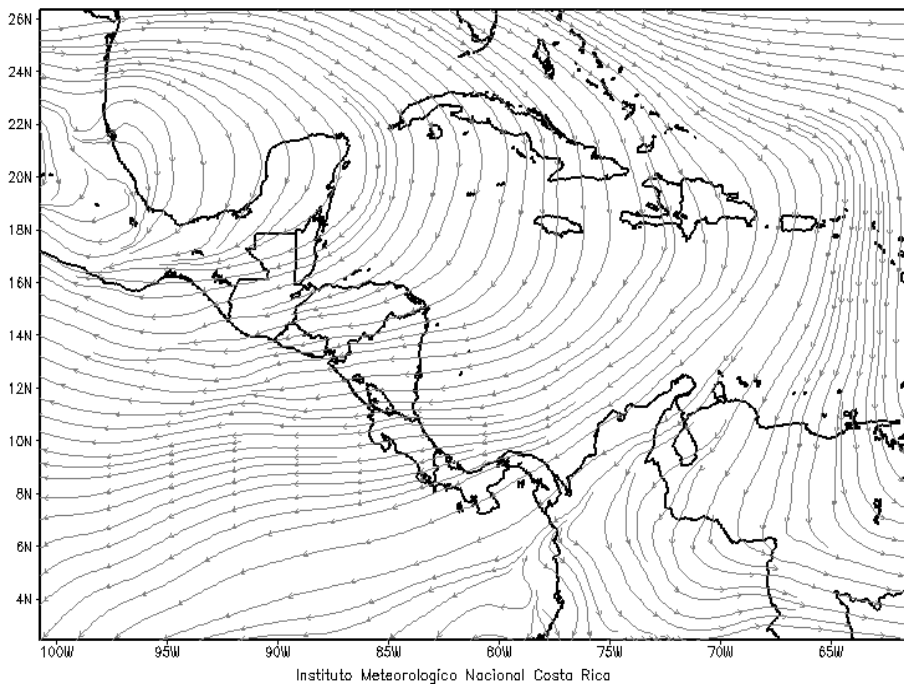
IMN/WRF: Lineas de Corriente (250hPa)
2015-02-24 06Z



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

IMN/WRF: Lineas de Corriente (500hPa)
2015-02-24 06Z

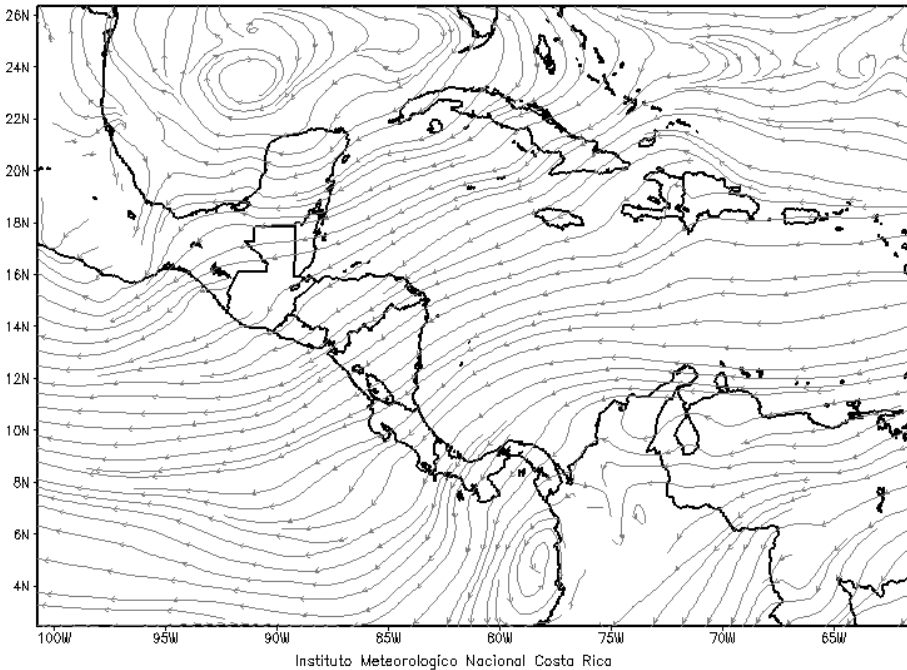


Format: PNG
Average Size: 25 kB
Frequency: Daily (per forecast)
Naming Conventions:
 stream-06h-500hPa-dom2
 stream-12h-500hPa-dom2
 stream-18h-500hPa-dom2
 stream-24h-500hPa-dom2
 stream-30h-500hPa-dom2
 stream-36h-500hPa-dom2



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

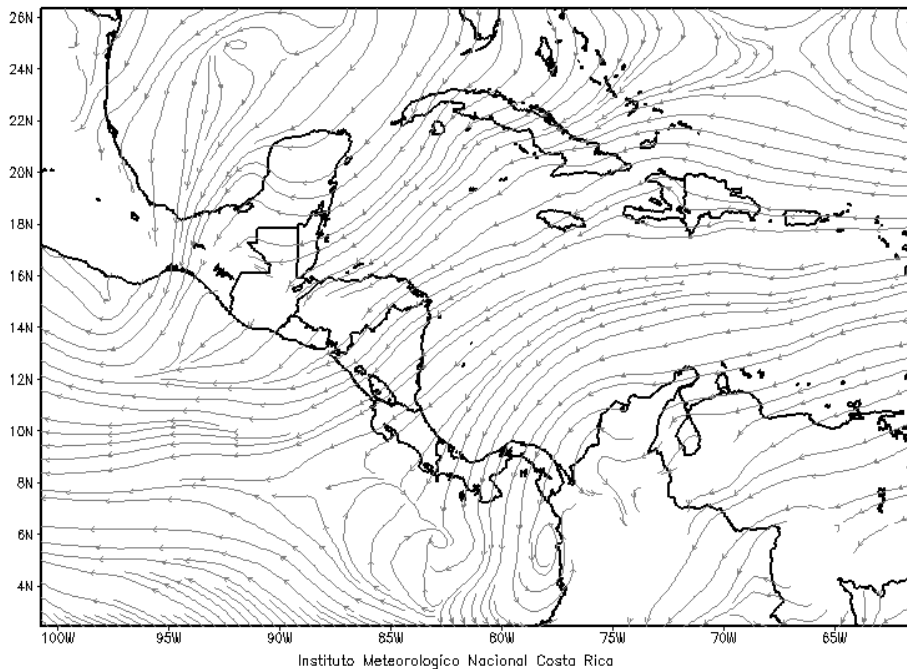
IMN/WRF: Lineas de Corriente (850hPa)
2015-02-24 06Z



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**

IMN/WRF: Lineas de Corriente (925hPa)
2015-02-24 06Z

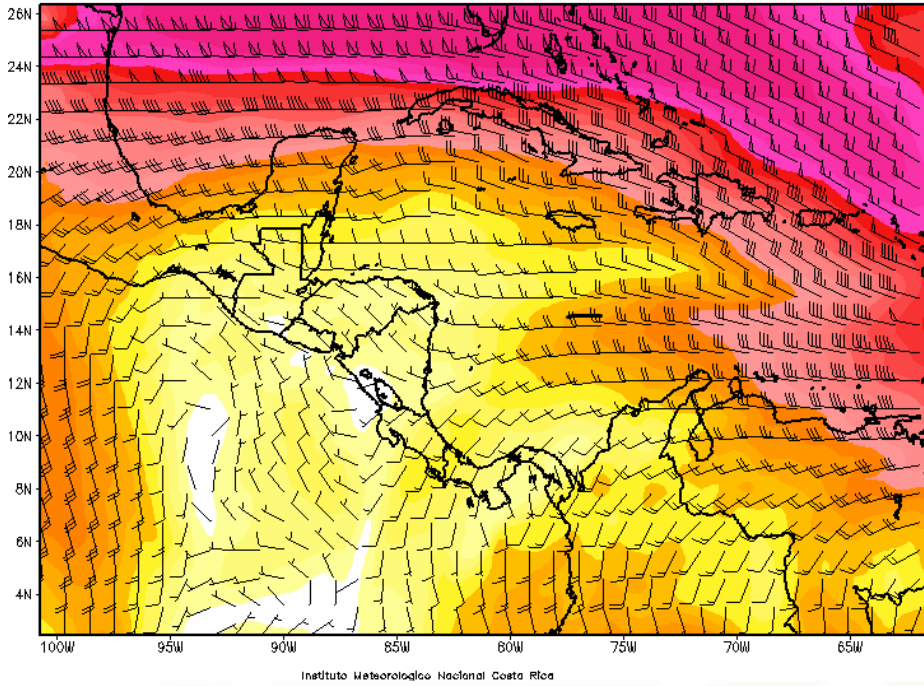


Format: PNG
Average Size: 25 kB
Frequency: Daily (per forecast)
Naming Conventions:
 stream-06h-925hPa-dom2
 stream-12h-925hPa-dom2
 stream-18h-925hPa-dom2
 stream-24h-925hPa-dom2
 stream-30h-925hPa-dom2
 stream-36h-925hPa-dom2



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

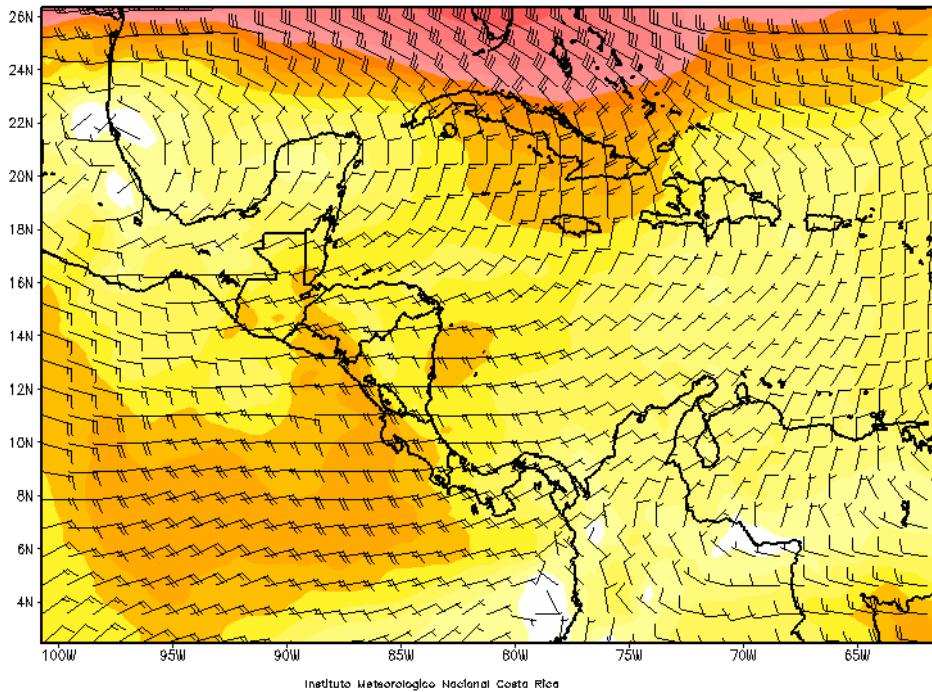
IMN/WRF: Viento (kt) (250hPa)
2015-02-24 06Z



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

IMN/WRF: Viento (kt) (500hPa)
2015-02-24 06Z

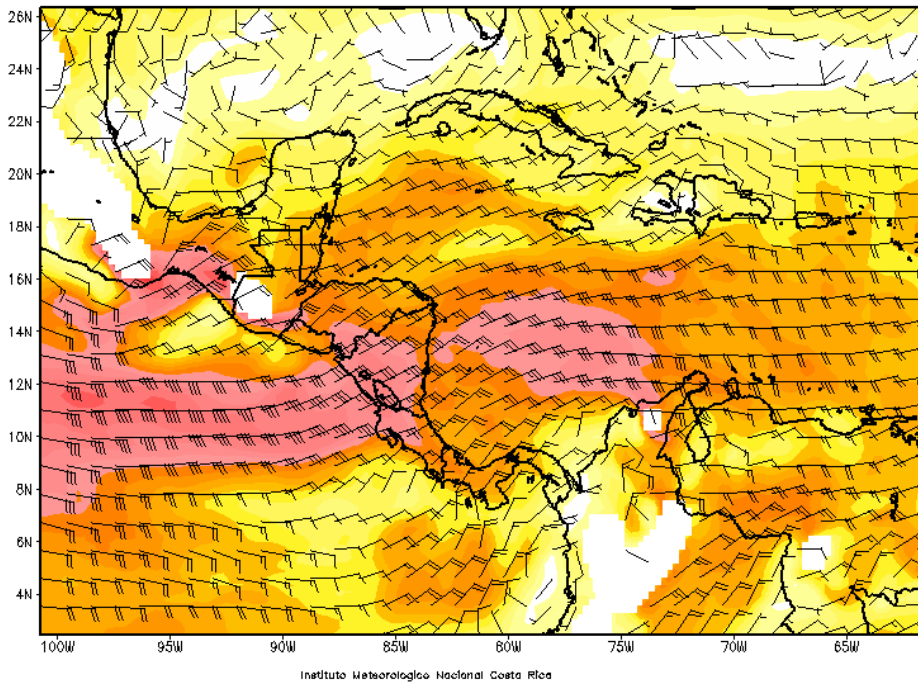


Format: PNG
Average Size: 40 kB
Frequency: Daily (per forecast)
Naming Conventions:
 wind-06h-500hPa-dom2
 wind-12h-500hPa-dom2
 wind-18h-500hPa-dom2
 wind-24h-500hPa-dom2
 wind-30h-500hPa-dom2
 wind-36h-500hPa-dom2



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

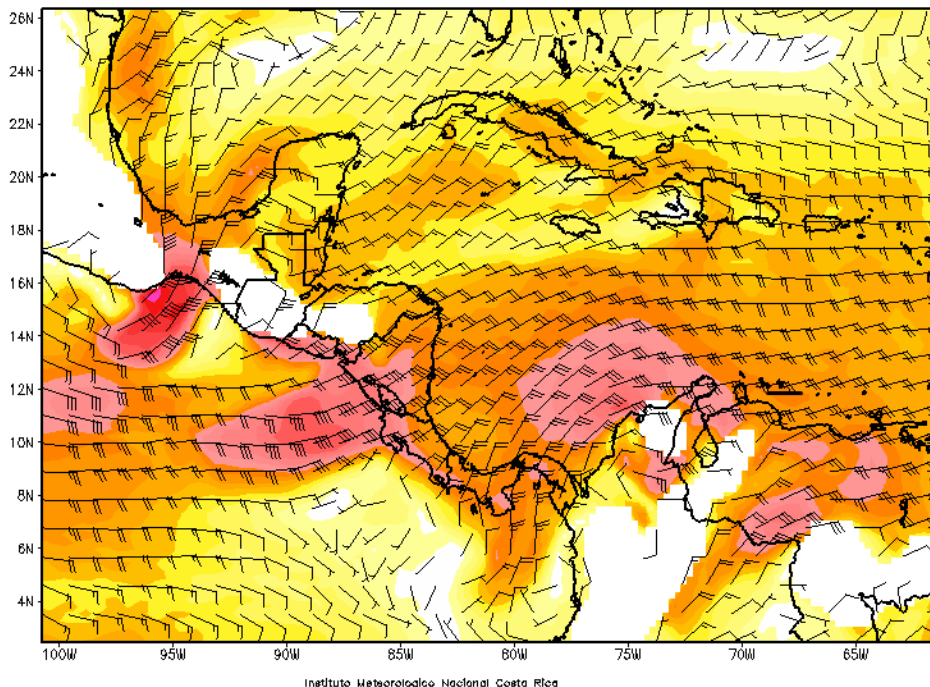
IMN/WRF: Viento (kt) (850hPa)
2015-02-24 06Z



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**

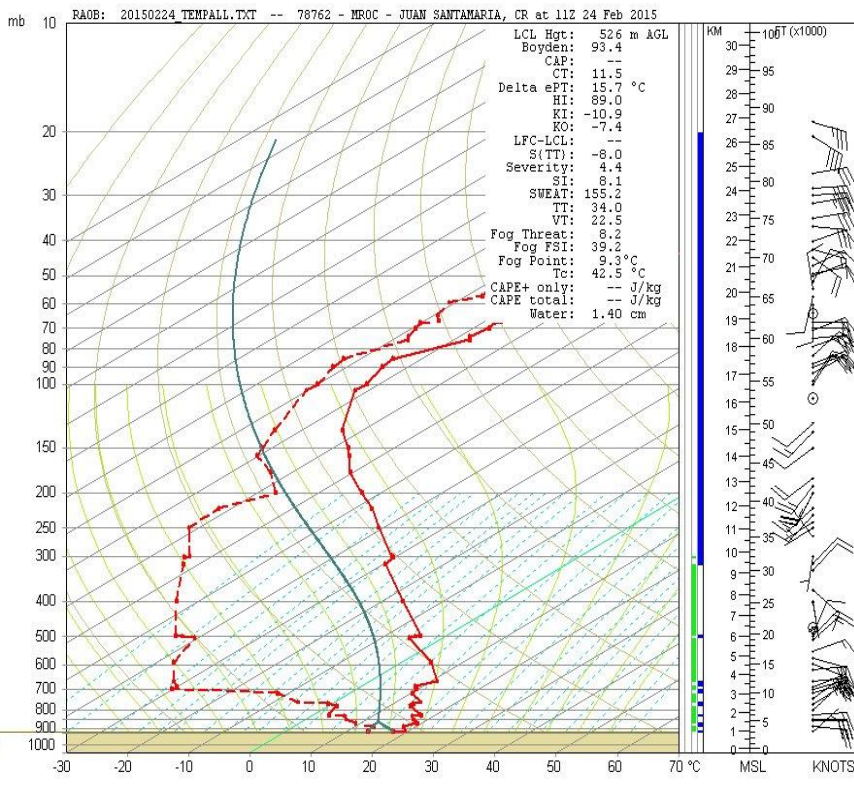
IMN/WRF: Viento (kt) (925hPa)
2015-02-24 06Z



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**



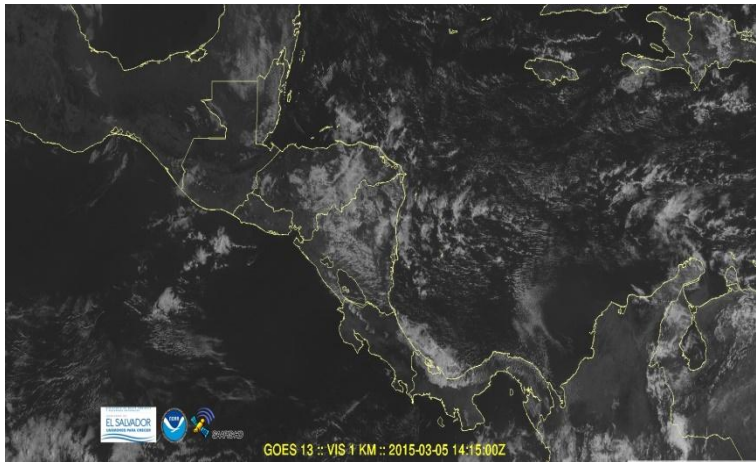
Formats: JPEG, BUFR, TXT, AED
Average Sizes:
 200 kB (JPEG)
 70 kB (BUFR)
 2 kB (TXT)
 245 kB (AED)
Frequency: Daily (per format)
Naming Conventions:
 YYYYMMDD.AED
 YYYYMMDDbufr309052_100.bfr
 YYYYMMDDbufr309052_all
 YYYYMMDD_TEMPALL



PROVIDER: MARN-El Salvador

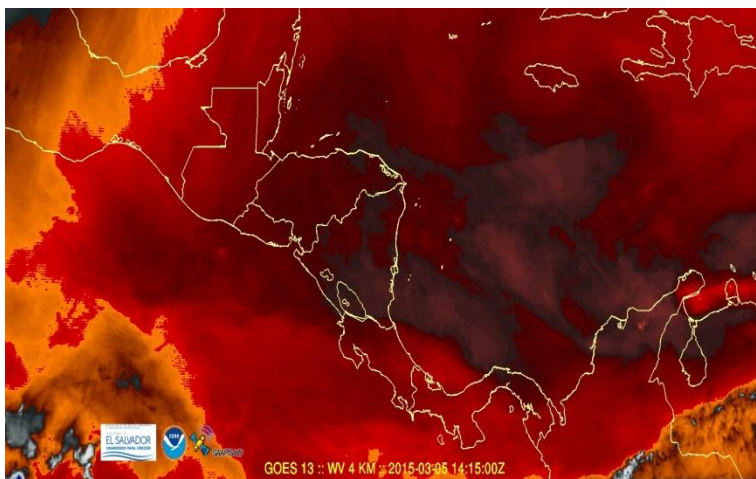
(Department of Environment and Natural Resources – El Salvador)

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



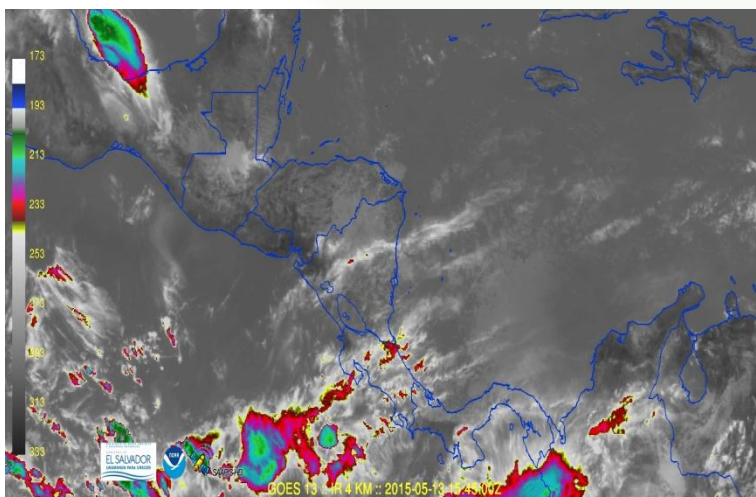
SDR ID#: 4
Format: JPEG
Average Size per image: 1.10 MB
Frequency: 9 images every 15 minutes
Max n° of files a day: 864 (overwriting)
Satellite: GOES-13
Instrument: GOES-13 Imager
Channel: 1
Wavelength: 0.52 to 0.71 μm , cent. at 0.63 μm
Projection: Rectangular
Resolution: 1 x 1 km
Naming Convention: vis4_1 to vis4_9

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



SDR ID#: 4
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

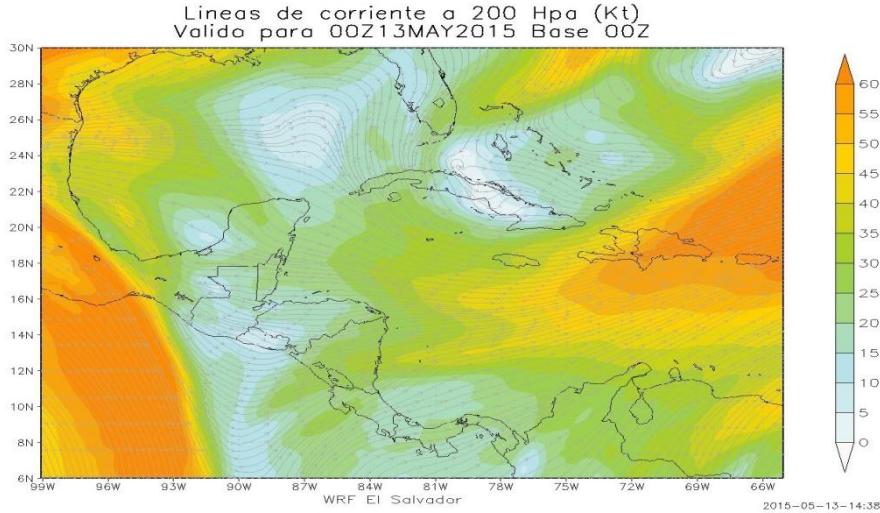
- GOES-13 – Infrared Channel Enhanced – Central America**



SDR ID#: 4
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

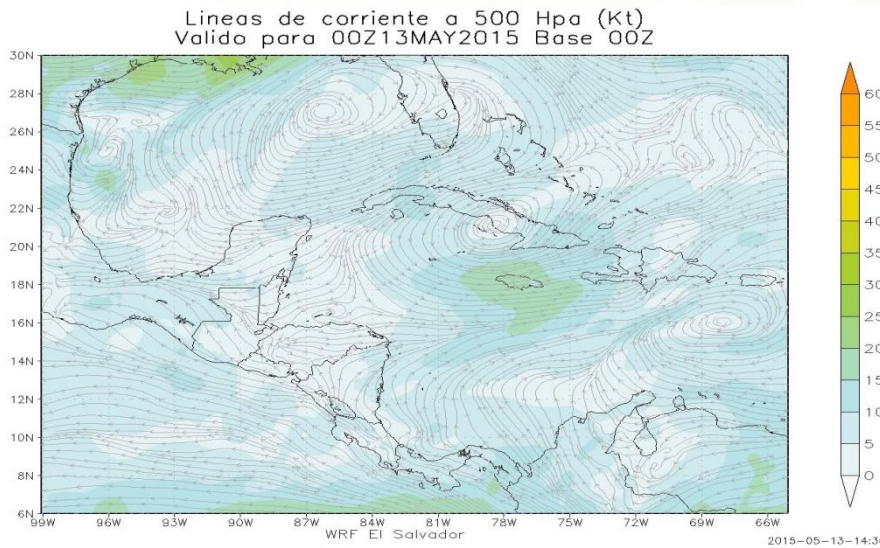


• **WRF Model - 200 Milibars Wind – Central America and Caribbean**



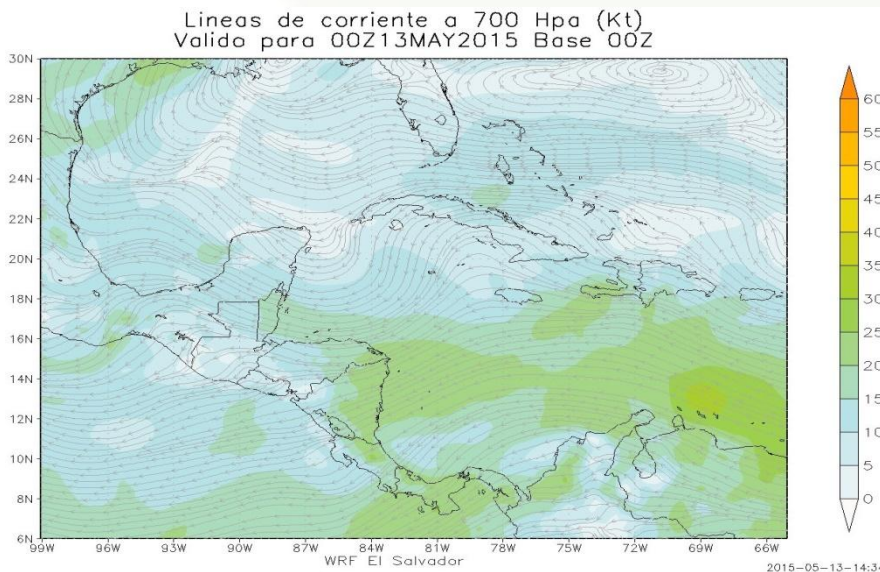
Format: JPEG
Average Size per image: 306 kB
Frequency: 73 images per day
Spatial Resolution: 15 km
Naming Convention:
 strm_200_1 to strm_200_73

• **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

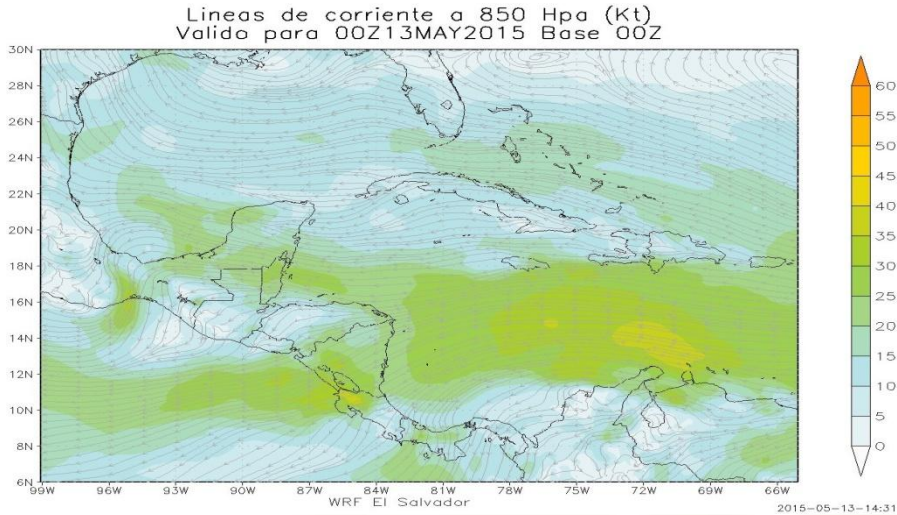
• **WRF Model - 700 Milibars Wind – Central America and Caribbean**



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

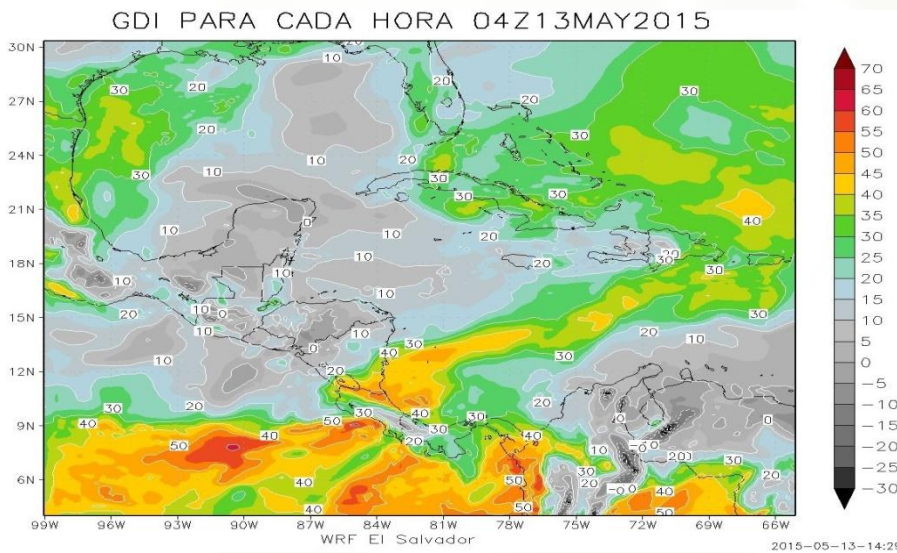


• **WRF Model - 850 Milibars Wind – Central America and Caribbean**



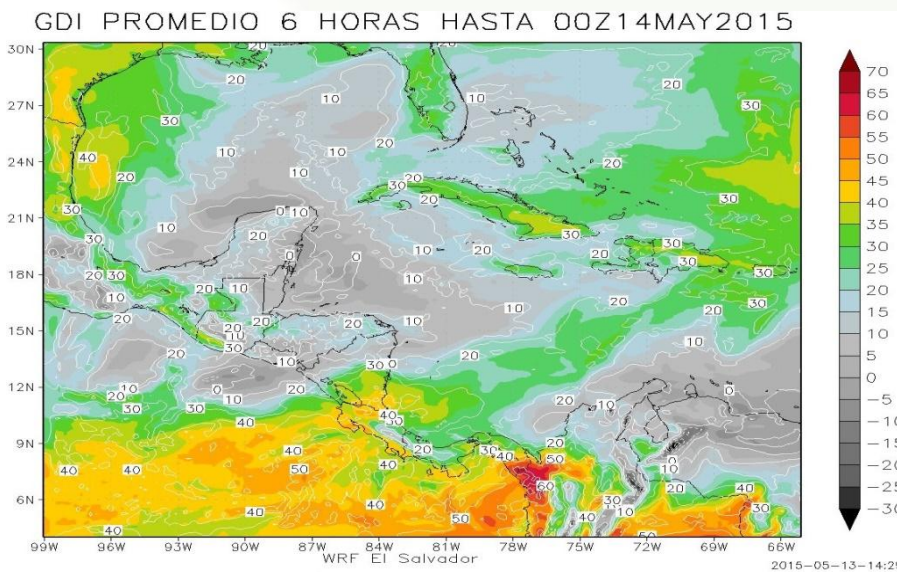
Format: JPEG
Average Size per image: 360 kB
Frequency: 73 images per day
Spatial Resolution: 15 km
Naming Convention:
 strm_850_1 to strm_850_73

• **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**

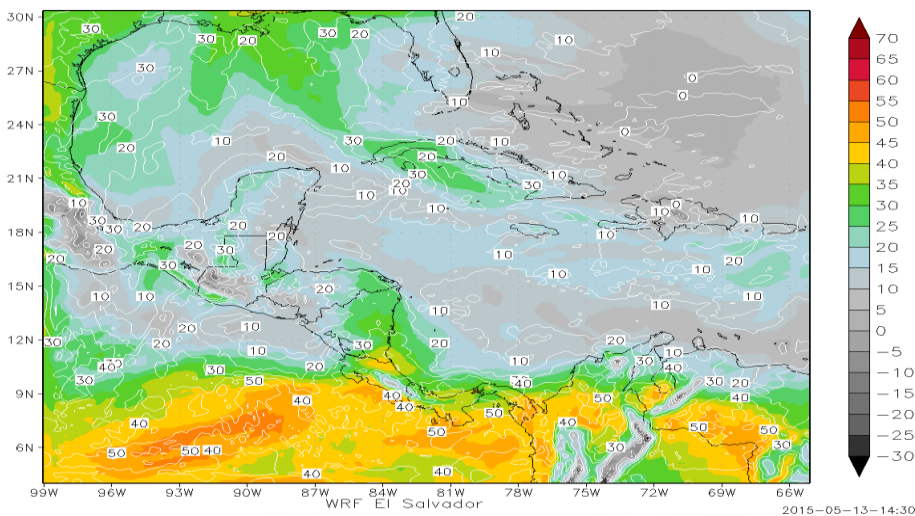


Format: JPEG
Average Size per image: 309 kB
Frequency: 12 images per day
Spatial Resolution: 15 km
Naming Convention:
 gdi_6h_1 to gdi_6h_12



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

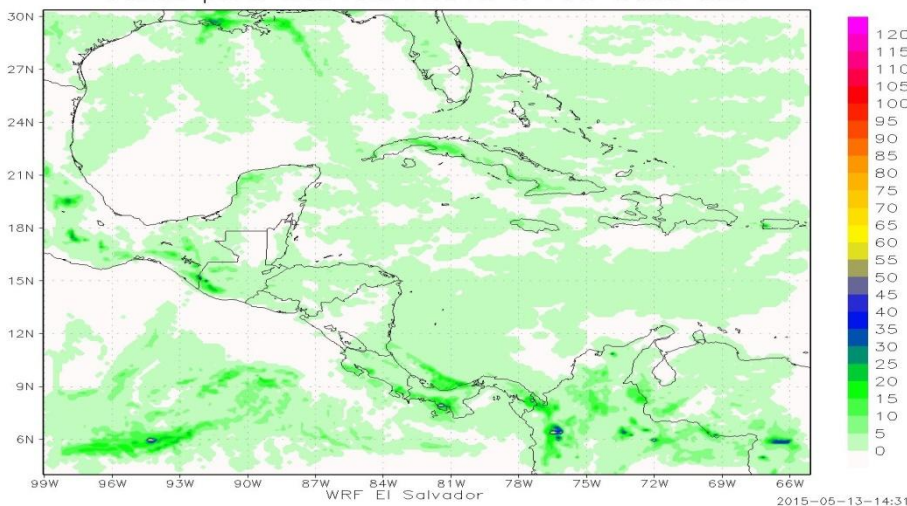
GDI PROMEDIO 24 H AL 00Z16MAY2015 DIA 3



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**

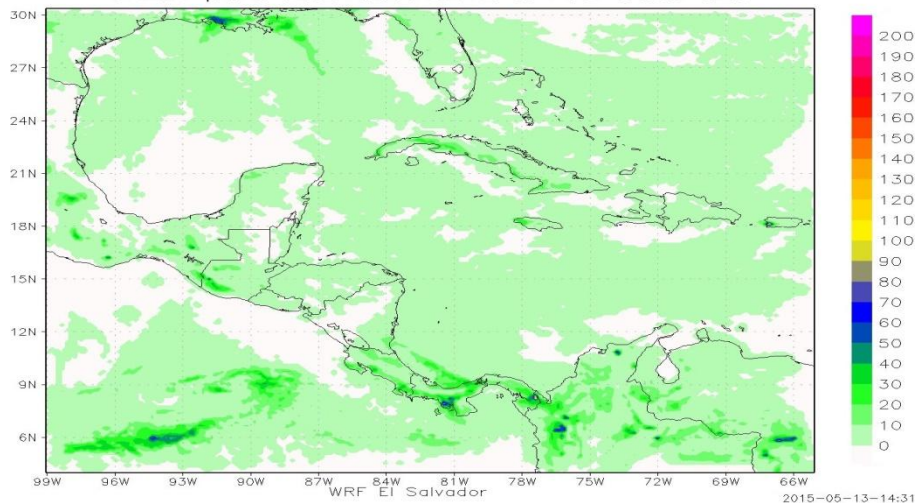
Precipitacion Acumulada cada 3 horas (mm)
 Valido para 00Z16MAY2015 :: F72 Base 00Z



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**

Precipitacion Acumulada cada 6 horas (mm)
 Valido para 00Z16MAY2015 :: F72 Base 00Z

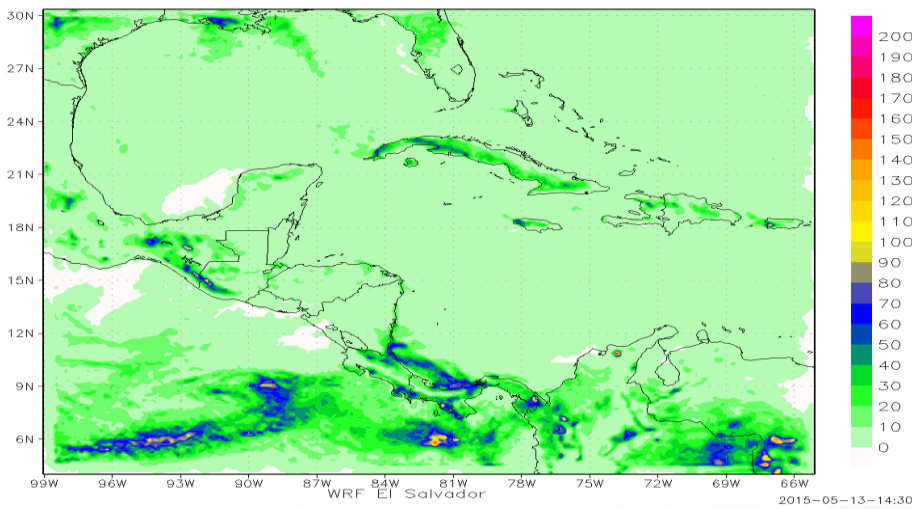


Format: JPEG
Average Size per image: 220 kB
Frequency: 12 images per day
Spatial Resolution: 15 km
Naming Convention:
 pptcada6h_1 to pptcada6h_22



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

Precipitacion Total Acumulada en 24 horas (mm)
Desde 00Z15MAY2015 hasta 00Z16MAY2015 Base 00Z



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



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, Test 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]

T1T2:

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

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

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]

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** ??????

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



Channel: ISCS-BUFR

Content: Atmospheric and Oceanographic Observation 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]

T1T2:

- **IM** ??????
- **IO** Binary observation - BUFR - Oceanographic/Limnographic (water properties)
- **IU** Binary observation - BUFR - Upper air
- **JU** Forecast Information - BUFR - Upper air

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

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]

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

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



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:
 yyyyymmdd_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 1 (GRIB1)
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.html>



Channel: ISCS-PIC

Content: Multiple graphic format products.

Format: BUFR, Binary, ??????

Average Size per image: 55.76 kB / 0.0545 MB

Frequency: 1 file 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, temperature, 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]

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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**

