DESCRIPTION OF DIRECTORY

Content of directory: products created from VIIRS instruments measurements onboard Soumi NPP and NOAA-20 satellites.

Files in directory:

NaturalRGB: The main aims of the Natural Colour RGB are to display surface characteristics (e.g.snow/vegetation/bare soil) and to distinguish ice from water phase (water clouds from ice clouds or from cloud-free snow) at daytime.

NightRGB: The Night Microphysics RGB is created for cloud analyzes at night time; it is also used for fog and low cloud detection

TrueColorRGB: Besides observing clouds, the True Colour RGB is used to monitor aerosols; suspended particles and algae bloom in sea water; surface features.

CHARACTERISTICS OF THE DATA

Filenames: satellite_VIIRS-<type>-<YYYYMMDD>_<HHMM>.png, where

<type>: types listed above (e.g.: NaturalRGB)

<YYYYMMDD>_<HHMM>: date and time (UTC)

Update frequency:

According to satellite overpasses.

Format: png**.**

Uncertainty of measurement/methodology:

The spatial and temporal resolution of the satellite measurements limits the observation. (Spatial resolution of the VIIRS instrument is 375 m or 750 m depending on channels.)

METHODOLOGY

Creating RGB images we use brightness temperatures or reflectivity values from different channels and/or channel differences in the red, green and blue colour beams. The channel selection for each RGB is depending on the feature we would like to highlight.

ADDITIONAL INFORMATION

https://www.met.hu/idojaras/aktualis_idojaras/muhold/

https://eumetrain.org/RGBguide/recipes/RGB_recipes.pdf

REVISION HISTORY

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CONTACT POINT

odp@met.hu