

Document Nubes Prapro 1.10

Summary of functions in the NUBES software package

The nubes package (<http://www.prapro.com/nubes.zip>) performs the following functions for reception (A) and image visualisation (B):

A. Image reception

- Reception of hrit segments from EUMETCAST (Ku or C band)
- Merging of segments into a single native file every 15'
- Logging and monitoring of reception
- GRIB and BUFR format decompression (optional)
- Decompression of Indian Ocean data for 3-D composition
- Customized file purging

B. Image visualisation

- Single channel displays
- High resolution displays, gray or colour
- Channel composite displays
- Channel difference displays
- Zooming and un-zooming
- Enhancement and resolution sliders
- Projections: Mercator, N-Polarstereographic (other types on request)
- Anaglyphs based on two satellites or on MSG infrared images
- Special RGB standard combinations
- Pixel inspector: quantitative analysis tool
- Transect function (11 channel simultaneous intercomparison)
- SST and AMSU overlays on satellite image
- Saving displays as jpeg or bitmap
- Automatic regular generation of bitmap or jpeg products for different areas, projections and magnification
- Display of foreign satellite like GOES, Metop, NOAA polar and MTSAT
- Colour compositing and navigation for AVHRR imagery
- Animations for an arbitrary period of time
- Coastline files
- Sun and sunglint location
- Scatterograms and back correspondence to image pixels for didactic
- Cursor reading of brightness and albedo values
- Ozone temperature and thickness estimates, based on Meteosat only
- Special products (SST, vegetation indices, etc.) (optional)

The package can be found in
<http://www.prapro.com/nubes.zip>

This package is **protected** by a key from undue operation by non-licensed users. Users register and get a key file via e-mail typically valid for one or two years, which enables all the functions in the package. Users with a key get the new versions during the period of subscription for free. For a test key, please go to

<http://www.prapro.com/licnecs/hha.asp>

The software is flexible and in continuous **development**. New **functions** can be added on agreement with the user or by our initiative.