Break out Group:

Update of Satellite Data Requirements
Transition from EUMETCast-Americas to GNC-A
Use of GNC-A Bandwidth

Recommendation for the discussion: Transition from EUMETCast-Americas to GNC-A

a) **Propose a training on how to convert station to GNC-A**

b) **Disseminate the documentation for conversion**

c) **PROCEDIMIENTO BÁSICO PARA LA CONVERSIÓN DE UNA ESTACIÓN TERRENA EUMETCast-AMERICAS EN UNA ESTACIÓN TERRENA GEONETCast-AMERICAS**

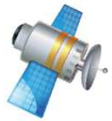
English, Spanish and Portuguese document are available.

a) **How to Support users in the conversion**

b) **Create a list of Eumetcast station and contact the users (who and how)**

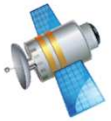
EUM-A to GNC-A Conversion

GEONETCast



SES-6
(40.5 W)

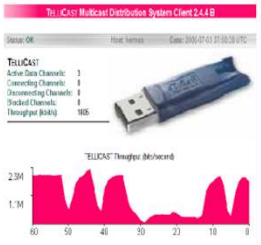
Repoint dish from SES-6 to IS-21
(may use the same antenna)



IS-21
(58 W)

Change the LNB polarization from
Left Hand Circular to Vertical
(may use the same LNB, depending
on the model - just remove the dielectric plate)

Keep or Upgrade the DVB-S receiver
(we recommend changing it to an
Ethernet model like NOVRA S300D)



Change from EUMETCast Client Software (Tellicast) + EKU
to KenCast FAZZT Professional Client
(one-time license)

Reference: "BASIC PROCEDURE TO CONVERT A EUMETCAST-AMERICAS RECEIVE STATION TO A GEONETCAST-AMERICAS RECEIVE STATION" (English, Spanish and Portuguese document available)

Recommendation for the discussion: Update of Satellite Data Requirements

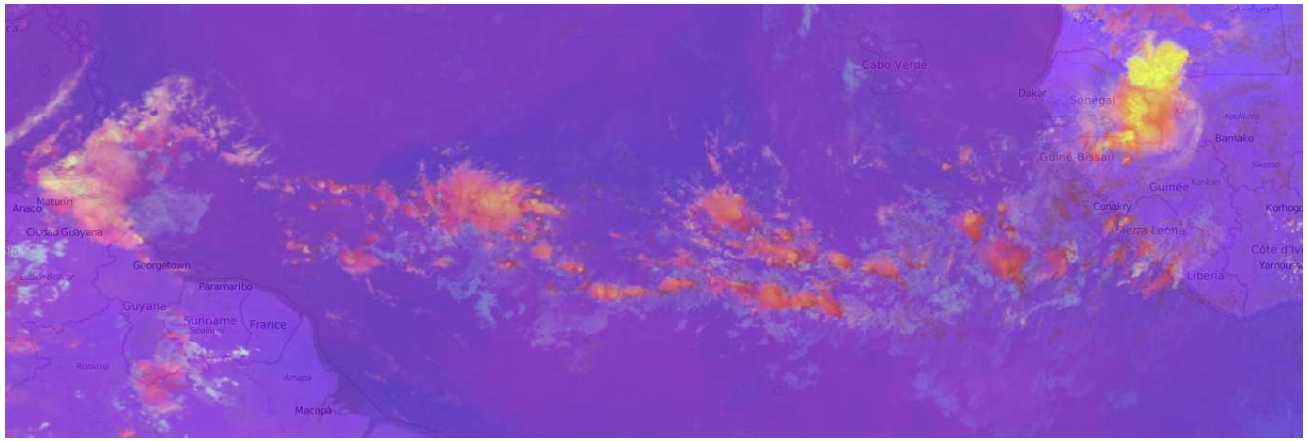
a) The 402 products have some similarities – need to be reviewed

b) The list need to be completed with NOAA and EUMETSAT information (size)

- **Define a specific Working Group to review and propose the update list.**
- **Discuss how to add products from AMERIGEOSS – non meteorological data**
- **Discuss how the data will be delivered – suggestion GNC-A**
- **Discuss GOES-13 and GOES-R data -> what should when GOES-R images will be available**

Recommendation for the discussion: Use of GNC-A Bandwidth

a) **402 products Data requirements – estimated 4 MBs – avoiding 3 high resolution products**
b) **16 channels GOES-R, all at 2 km resolution, one file, format NetCdf – 25% of the GNC-A band**
c) **Data needed - Lightning Detection: Events, Groups & Flashes (1% of the band)**
d) **Space Weather?**
e) **Only the high resolution channels (0,5 and 1 km) use the band – channels 1,2,3 and 5 120% of the GNC-A band**
f) **We need all channels ? or Vis, IR, WV, 3.9 and 11.2? IR and WV uses only 4%, 3.9 and 11.2 uses around 5% band**
g) **Will be more useful to have the basic channels, each 15 minutes and products?**
h) **NOAA level 2 products? What products? around 30% of the GNC-A band the main products**
i) **Will be more efficient to have channels combinations as:**



Convection – Image combination
Others images
1) Air masses classification
2) Fog
3) Volcanic Ash
4) Dust…..

a-) VIS 0.6 (Chn 2) - full resolution (time/spatial) -> **31%** GNC-A.

b-) IR 10 (Chn 13) e WV 6.2 (Chn 8) - full resolution -> **5%** GNC-A.

c-) 3.9 (Chn 7) and 11.2 (Chn 14) - full resolution -> **6%** GNC-A.

d-) The **16 chns in one file**,all 2 km resolution each 15 min - >**33%** GNC-A.

e-) The **28 products level 2 -> 50%** GNC-A.

f-) GLM less than **1%** GNC-A.

Initial Proposal - Starting Discuss

- **Reduced Data Requirements – around 2.2 Mbs - 35% of GNC-A**
- **GLM each 5 minutes – number of events – 3 files send in 15 minutes - 2% of GNC-A - netcdf**
- **IR 10 (Chn 13) e WV 6.2 (Chn 8) –full resolution – each 15 minutes 5% of GNC-A - netcdf**
- **3.9 (Chn 7) and 11.2 (Chn 14) - full resolution – each 15 minutes 6% of GNC-A - netcdf**
- **Sandwich image full resolution – region selected (3 sector) – each 15 minutes – 15% of GNC-A - netcdf**
- **PDA products – 30% of products selected in the list.**
- **5% - strategy space – charter disaster – radar data – etc**
- **3% - model data**