

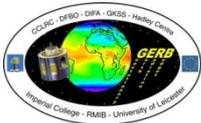
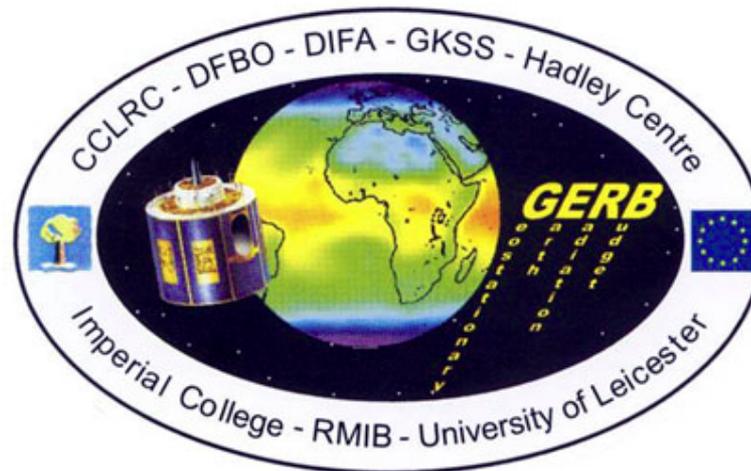
RMIB GERB Processing (RGP)

Status report – 33rd GIST

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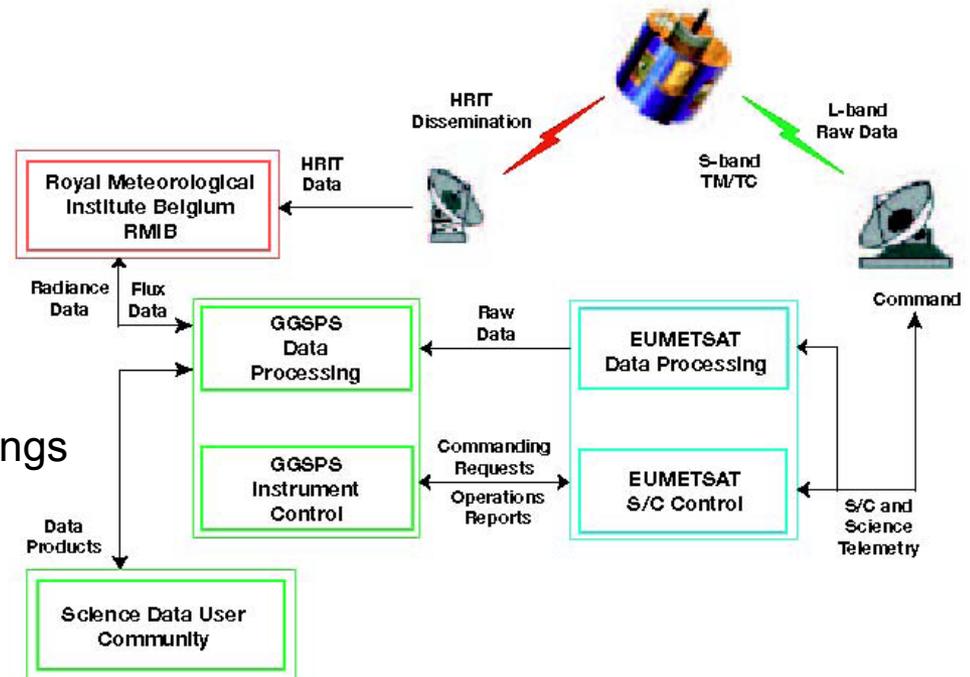
RGP Overview

Inputs

- GERB level 1.5 from RAL
- SEVIRI level 1.5 from EUM

Processings

- LW separation
- Unfiltering
- Scene identification
- ADMs
- Various spatial and temp. processings
 - to combine GERB and SEVIRI
 - tuning of the geolocation
 - resolution enhancement

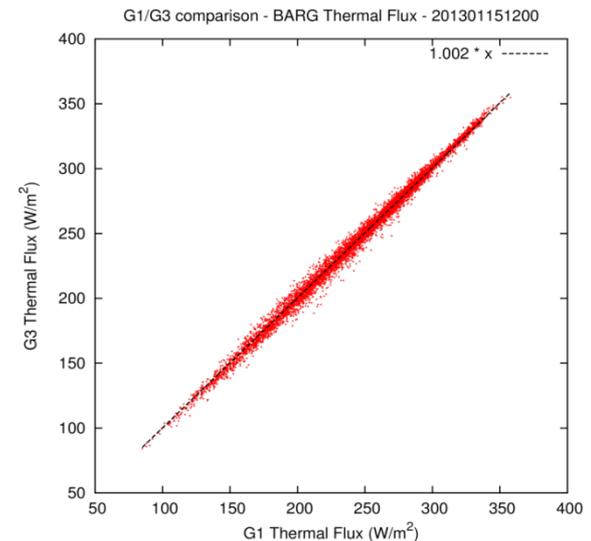
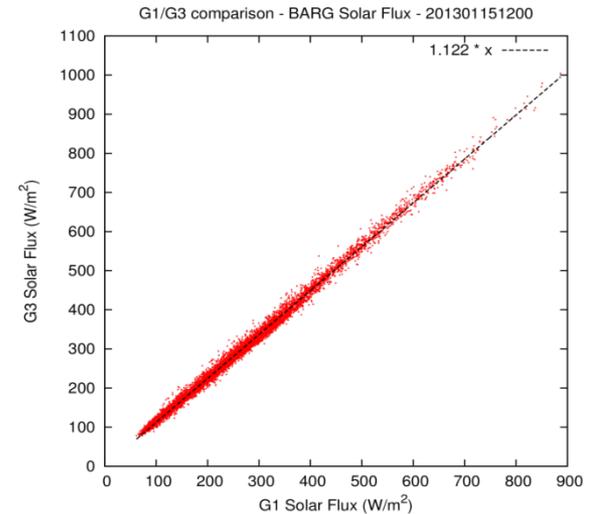


Outputs

- Level 2 solar and thermal fluxes at TOA
- 3 formats:
 - ARG: Averaged Rectified Geolocated (45km, 17', no correction of PSF)
 - BARG : Binned Averaged Rectified Geol. (45km, 15', PSF corrected)
 - HR : High Resolution (9km, 15', PSF corrected)

RMIB GERB Processing status

- **G1_SEV2:** GERB-1 remained “prime” as long as possible. Data processed until 13th Feb. 2013 but not (yet) edition during (and after) the move (17 Jan. 2013 onward).
- **G3_SEV3:** processed and data distributed as “CalVal” (V003 was used), see <ftp://gerb.oma.be> in directory Archive/G3_CalVal (+README) until failure of GERB-3 on 27 April 2013.
- **GL_SEV3** : generated without significant problem except a SEVIRI decontamination 1-9 July 2013 (Met-8 took over). Also spacecraft command problem on 18 August 2013 affecting 13 repeat cycles.
- Back to GERB1 -> see **G1_SEV3 presentation**
- Activities toward **BARG and HR release** -> see *Edward’s presentation* (“filling”)
- Activities toward **GERB ED02** data record -> see *Helen’s presentation*
- Software/ Hardware / ROLSS status -> see *end of presentation*



RMIB GERB / CMSAF activities status

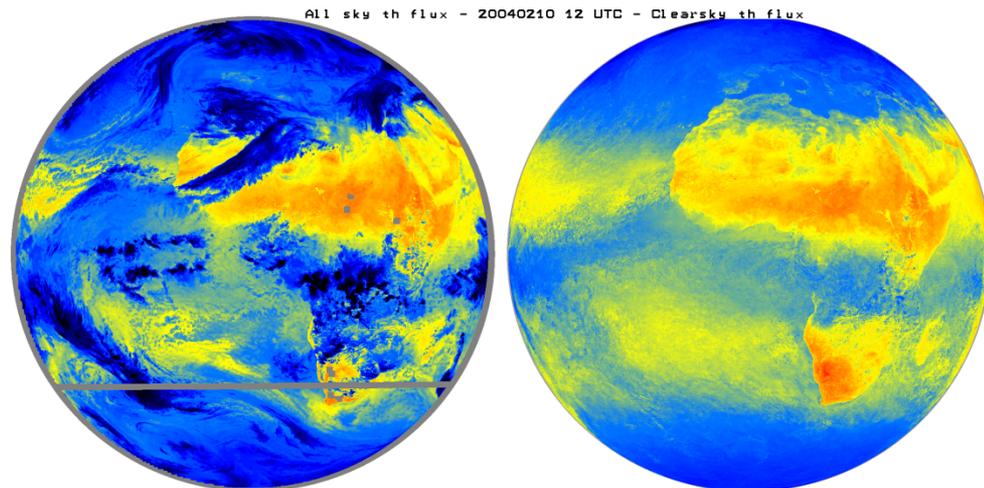
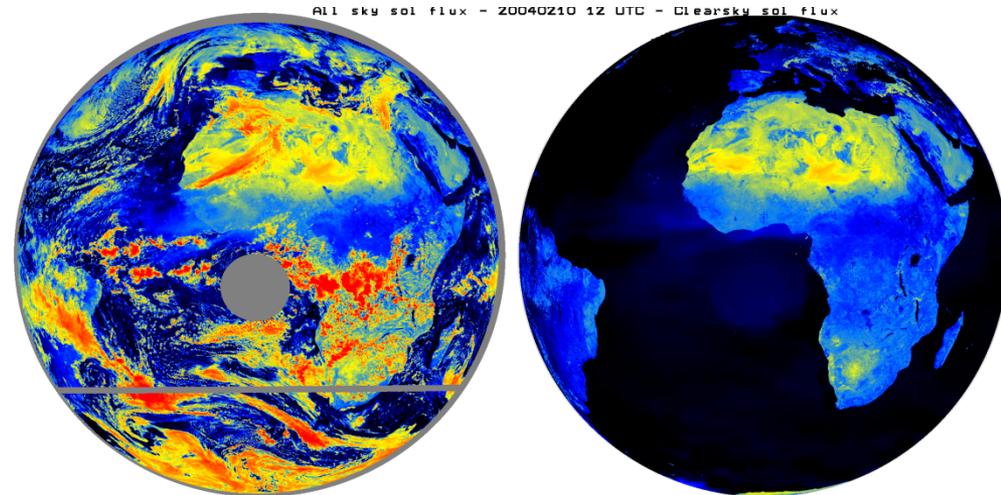
- **Climate Monitoring SAF activities:**

- SEVIRI/GERB dataset including clear sky fluxes (see illustration)
- Beneficial for the GERB project (clear sky fluxes, aging, ...)
- > See presentation on Friday
- MVIRI/SEVIRI/GERB dataset
- MSG/SEVIRI AOD dataset

- **New EarthCARE « CLARA » activities :**
RMIB working on

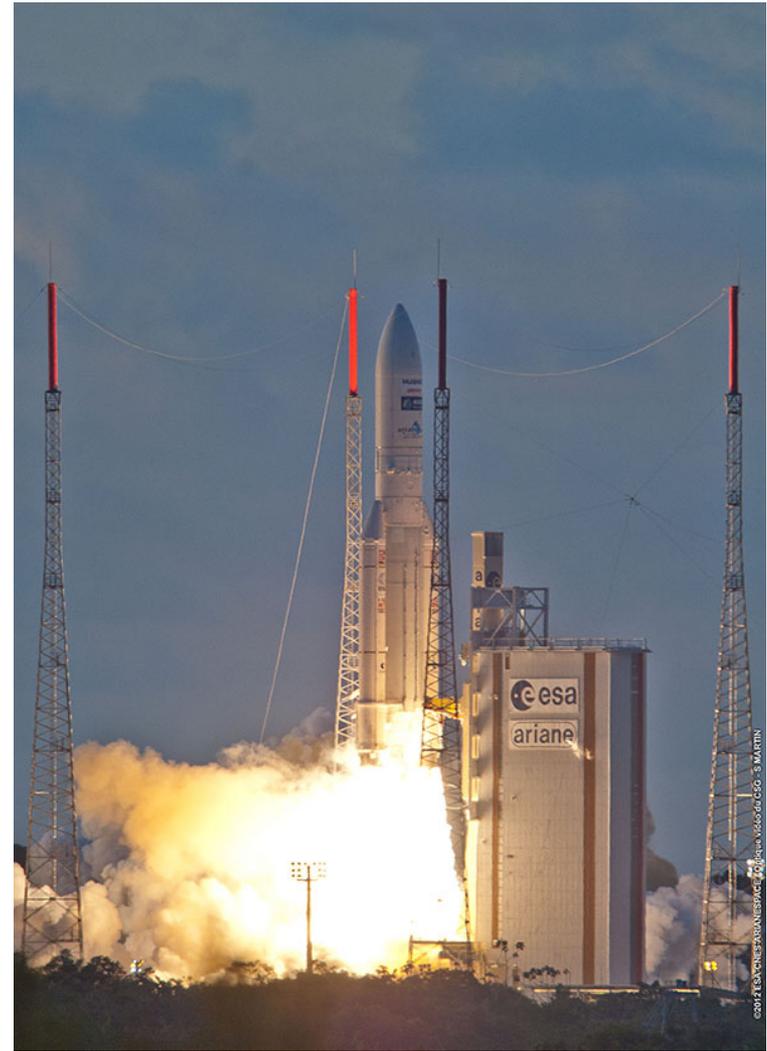
- BBR unfiltering
- BBR LW radiance-to-flux conversion
- Mostly software delivery activities

See presentation of Florian Tornow (FUB) on Friday



Future activities

- GERB Edition-2
- BARG and HR release
 - Complete the G2 and G1 reprocessing
 - Visual QA including stray light flagging
 - Reprocess CM SAF dataset and validation activities
- G1_SEV3
 - Try to issue a LW products asap
 - Reprocess 2013-2014
- Preparation to GERB-4 processing
- Try to submit something for Ops4MIPS



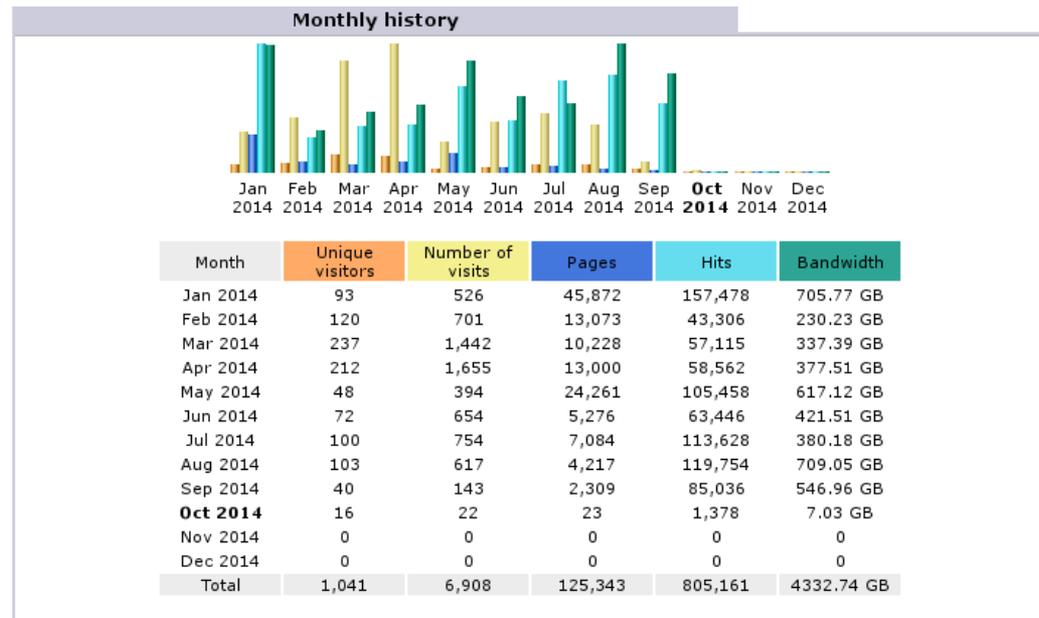
Software / Hardware / ROLSS status

- Reprocessing of BARG and HR ongoing with speed « only » 1/12, data still in HDF5 but with internal GZIP compression activated
- Hardware ready to process ED02
- Once almost final ED02 software version, RGP operational & backup computers can/will be updated (x3 to x??...)
- NetCDF routines ready to produce GERB level 2/3
- New GERB/CMSAF/CLARA file cluster (60 TB → 90 TB) fully redundant using glusterfs (SEVIRI input data on-line)
- New ROLSS (ftp, https, ssh servers) on virtual machine
 - one single location of GERB archive on glusterfs (mounted read-only on ROLSS)
 - no need anymore to copy TB of files for specific campaigns, just mount glusterfs dir
 - stability issues should now be fixed (leak in version of glusterfs client used on host)
- MSG/SEVIRI reception switch to DVB-S2 ongoing
 - 3 DVB-S2 systems ordered and received
 - 1 installed, 1 not working, 1 spare
 - will copy incoming XRIT data on glusterfs (remove SPF, except for network)
 - should be finalized for end 2014

Software / Hardware / ROLSS status

- Use of ECMWF cca for cloud optical depth inversion LUTs generation, possibility to use facilities for some heavy SEVIRI processing (LDA)
- +/- 100 registered ROLSS users
- CMSAF downloads
- SEVIRI downloads
- EUMETSAT orders

Summary				
Reported period	Month Sep 2014			
First visit	01 Sep 2014 - 01:42			
Last visit	30 Sep 2014 - 05:28			
Unique visitors	Number of visits	Pages	Hits	Bandwidth
40	143 (3.57 visits/visitor)	2,309 (16.14 Pages/Visit)	85,036 (594.65 Hits/Visit)	546.96 GB (4010681.58 KB/Visit)



The End

