ATBD feedbacks

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Introduction

- ✓ Thanks to all for the feedbacks
- ✓ In general: Important document et well addressed by EUMETSAT
- ✓ All feedbacks will be considered. It will lead to:
  - An update in the ATBD
  - An answer to the author
- ✓ The goal is to have a first version (1E) by the end of 2017, and to publish it on EUMETSAT website.

Instrument and on-board processing

- ✓ Missing commercial and sensitive information coming from industry ➔ *Could EUMETSAT clarify which of the commercial details will eventually be provided?*
  - ➔ At the STG 71, EUMETSAT stated that the ATBD should remain as is, but MAG members can have access to the missing information under their Non-Disclosure Agreement.

- ✓ Need of more information on the decimation and filtering processing

Operations

- ✓ IRS scan pattern ➔ *Who will decide the final operational sequence ? By when ?*
  ➔See presentation on the 19th of Oct. 11h, by Gary Fowler

- ✓ Yaw flip maneuvers every six months ➔ *Do this mean that the data matrices are inverted ?*
  ➔ Yes

- ✓ Yaw flip maneuvers every six months ➔ *How is long is the data outage during the maneuver?*
  ➔ Maximum 64 minutes

Linked to the level 1

- ✓ Final spectral sampling ➔ *This is a key issue but does not appear to be mentioned in the ATBD.*
  ➔ Exact. Waiting for a final decision.

- ✓ Uniformisation ➔ *Is it planned to add uniformisation to the L1 processing specification document? How can we help to make this happen?*
  ➔ Exact. MAG recommendation expected.

- ✓ Imager mode data ➔ *Recommend to re-visit the decision not to distribute imager-mode data to users.*
  ➔ Decision to be revisited by MAG (Imager mode data are radiometrically calibrated).

- ✓ Commissioning phase ➔ *Is it possible to have access to the interferograms at 1.3 km (imager mode level) ?*

Monitoring

- ✓ Information of the monitoring ➔ *It would be good to put some basic monitoring on a web page that is updated in NRT. Has this been considered?*
  ➔ MAG to give a recommendation ?

Principal components

- ✓ Determination of the eigenvectors➔ *Contrary to IASI, rare events are not given special treatment in the eigenvectors determination. Unless they have particularly high signal-to-noise, would they not be swamped by the vast quantity of "normal" spectra? This should be tested?*
  ➔ To be answered after Tim Hultberg presentation.

Cloud information

- ✓ Cloud information in the processing ➔ *Does cloud and dust detection fit in with the level 1 processing, or would it be more appropriate as the first stage of level 2?*
  ➔ Recommend to review.

- ✓ Cloud determination methodology ➔ *The influence of ECMWF forecast is so high that this cloud info/flag is not planned to be used in the assimilation process in our regional AROME/ALADIN model. Cloud mask information within MTG IRS pixel should be at the final stage based on MTG FCI data.*
  ➔ On-going study at EUMETSAT.

- ✓ Imager mode data ➔ *Why imager data are not used for having cluster information ?*
  ➔ On-going study at EUMETSAT.

Others

- ✓ File naming ➔ *Is it possible to have the dwell number in the file name ?*
- ✓ Comment on Level 1 products ➔ *Different number of bytes used for storage of PC scores prevents an efficient external compression*