

NPL activities relevant to CEOS WGCV 25

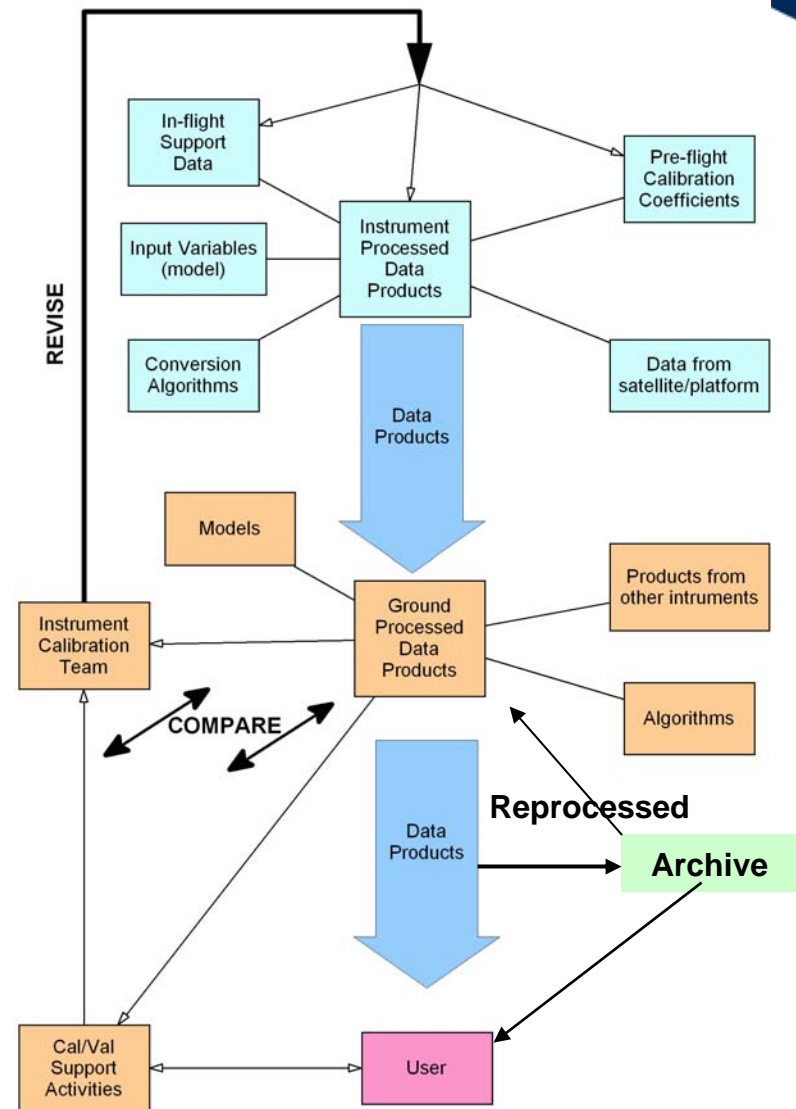
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1. Establish a baseline specification of QA /QC tools and procedures needed to ensure implementation of “best practise” for operations of future sensors/missions in the “multi-mission” environment.
 - Via analysis of existing missions
 - To meet needs of applications as specified by users
 - Appropriate adoption/adaptation of practises of non EO industrial sector
 - For all sensor types
2. Identification of a set of (if possible) generic “quality reporting indicators” and/or a means of “certification” of data products and their production, appropriate to the needs of their application and those of all stakeholders in the EO sector – data producer and user.

Validated data products require all processing steps and data to be QA – “certified”?

- Pre-flight
 - User specification
 - Instrument build compliance
 - Calibration?
- Post-launch
 - In-flight checks
 - Ground “Truth” comparison
 - Inter-sensor cross calibration
- Processed data released
 - “validated”
 - Uncertainty statement?



Comparison/validation exercise through NCAVEO

UK multi-sensor comparison June 13-20 2006

- Spot, DMC, Chris/Proba
- Casi, Lidar
- Ground spectrometers + BRDF

Chilbolton site in Southern England

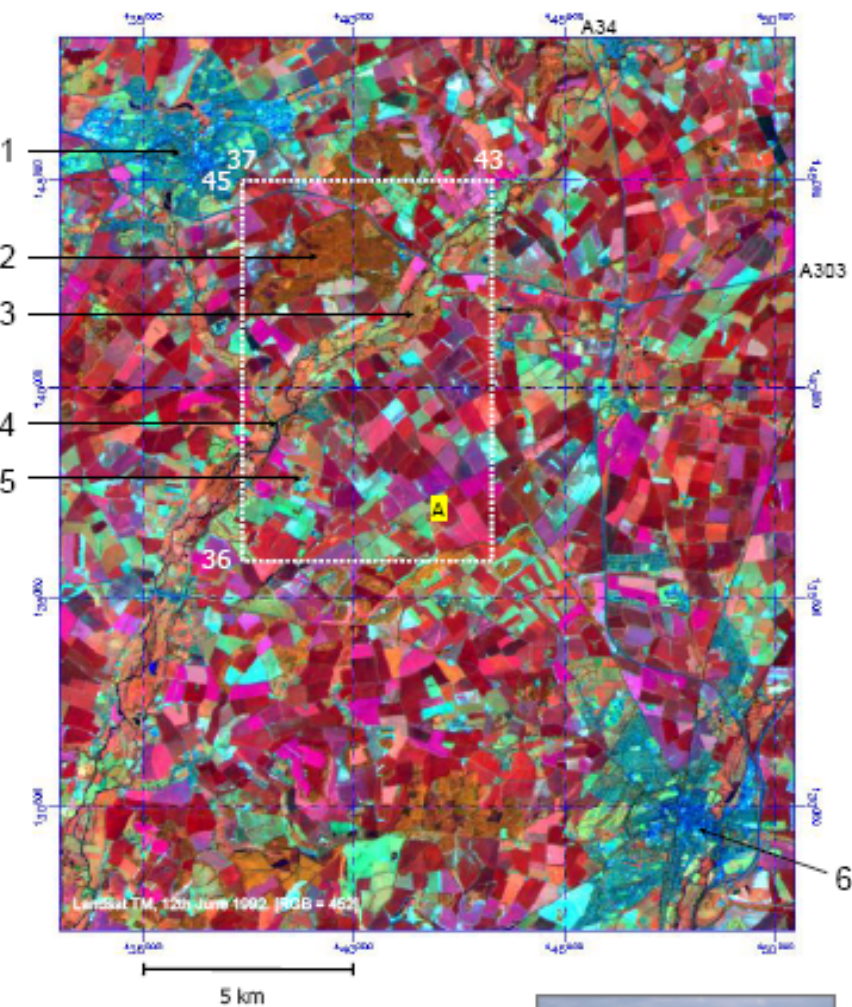
- Mixed land cover site
- 6 X 9 km
- Aeronet site



To compare results and techniques from different teams:

- **Traceability and reflectance calibration.**
All ground spectrometers to be calibrated to NPL standards on site
- **Validation of biophysical products based on the VALERI protocols.**
- **Validation of land cover.**
- **Validation of vegetation index products.**

Chilbolton validation site (dotted box)



1. Andover
2. Harewood Forest
3. Bransbury Common (SSSI)
4. River Test
5. CCLRC Chilbolton Facility for Atmospheric and Radio Research
6. Winchester

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