

SCIAMACHY QWG-3 Meeting #4

Webex 22 September 2015

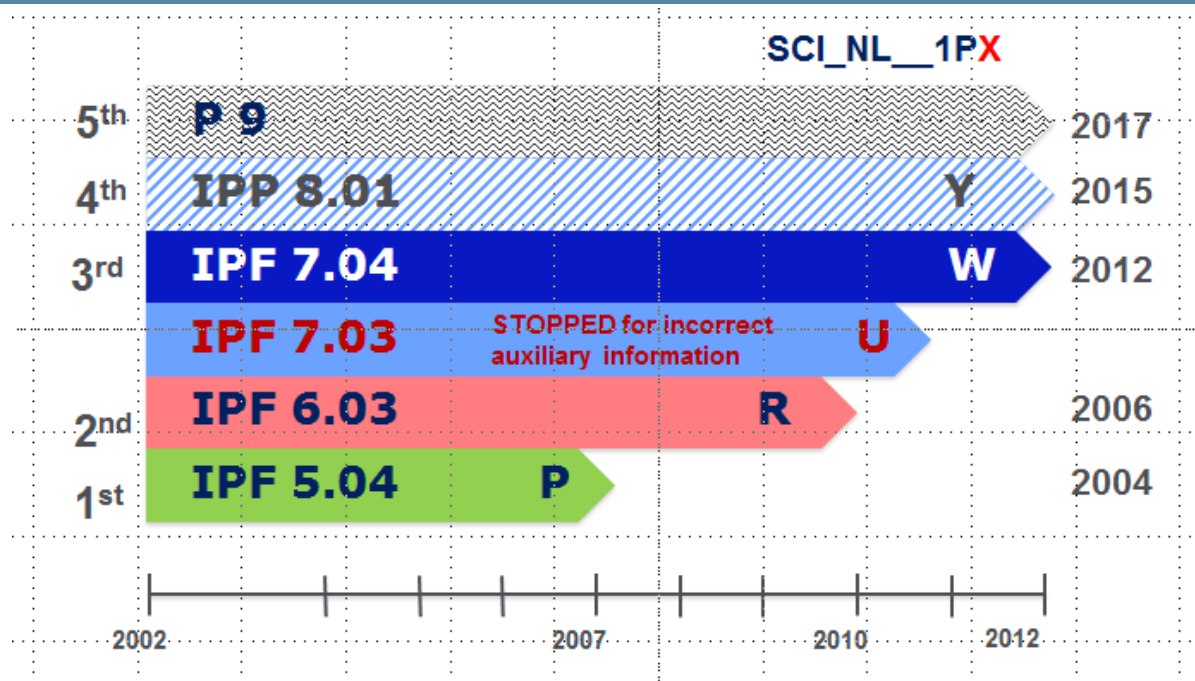
Reprocessing activities

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4th reprocessing campaign



- Level 1b v8.01-Y dataset available since February 2015
- 47503 Level 1b files + 138 post-processed in 32GB environment
- Different behaviour between IPP v8.01 and IPF v7.04

636 L0-1b processing failures

4th reprocessing campaign



Level 1b data screening did not identify criticalities
Minor issues discovered not justifying any adjustment.

All findings to be described in README file (details in next slides)
Possible segregation of limited low-quality products

August 2015: indication from QWG to proceed with data release

- Double written BDPM DSD (280 additional bytes, 24-31/12/2015)
- Usage of reference auxiliary files in place of calib. database (BDPM missing for too sparse measurements)
- 1085 Level 1b products present format inconsistencies
- Sub-optimal selection of A0 SMR spectrum (year 2002, 8 files)
- D0 SMR spectra inconsistency: BDPM applied after SLS
- 115 files with incomplete solar occultation states (totally missing in v7.04)

7 September 2015

Severe bugs (corrupted/incomplete states) discovered
by Klaus affecting 10% of dataset
> Dedicated ppt from DLR

Corrupted products passed inspections at different stages:
VDS, QC, dedicated CO processing, DDS

QC not adequate

Data release currently on-hold

Final version 3.2.6 accepted by ESA (compiled on 6/8/2015)

Linux 32/64 bit + Windows 32bit OS

Modified calibration scheme:

With v8.01 L1b products
calibration option Etalon is obsolete (skipped)
M-factor is not applied

Backward compatibility with v7.0X products
with new option «-compat»

- DDS inspection by validation teams completed
- SGP patch v6.01 fixing ozone limb error values
- FAT completed (Sep.2015)