

LFR ground segment activities



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LFR ground segment team



Team configuration :

Main scientist: Thomas Chust

SW and data engineers: Bruno Katra / Rodrigue Piberne (both shared with others activities)

We plan to have Rodrigue fully operational to do ground segment activities planned for interference campaign in nov. 2017 .

*** We also benefit Olivier Lecontel help & expertise for SCM related issues.*

LFR ground segment activities : CURRENT STATE



Waveforms products (CWF, SWF)

- ❖ L1 and L2R CDF skeletons/masters definition :
V02 ~OK and validated (blank test + PFM thermal test)
- ❖ Calibration SW : L1 to L2R
partially OK and validated (blank test delivery), still constant scale factor applied instead of transfer functions
- ❖ Calibration SW SUM : **OK, draft delivered to LESIA**

Spectral products (ASM, BP)

- ❖ L1 and L2R CDF skeletons/masters definition : **V02 OK**
- ❖ L2S CDF skeletons/masters definition : **Not done**
- ❖ Calibration SW : **Not done**

**Ground segment activities have been suspended since end 2016 (FSW R3++ validation and L1R redefinition dataflow)*

LFR ground segment activities : GOALS AND ROADMAP



- ❖ We decided to focus and put main efforts on new L1R pipeline discussed after january 2017 Keypoint : L1R intended to replace L2R

L1 → L1R → L2

- ❖ What we plan according to ROC keypoint meeting + preliminary JIRA inputs:

- ❖ Splitted files for E and B at L1R level
- ❖ L1R CDF will contain the indexes of the LFR calibration table to be used
- ❖ Correspondance between index and table filename should be included in CDF caveats (TBD)
- ❖ Number of L1R datasets for WF compared to L2R : 4 L2R → 8 L1R (E and B splitting)
- ❖ We plan to have ~11 different calibration tables for WF : 1 table = 1 file

LFR ground segment activities : GOALS AND ROADMAP



❖ QUESTIONS PENDING AND ITEMS TO BE DISCUSSED:

❖ L1R is intended to be **ONLY** for WF
BUT

it should be also convenient for BP as L1 BP are unusable as-is (~L0 bis)

→ Should BP processing be integrated at LESIA level L0→L1 ? (question raised at last SGSE telecon, should be discussed...)

❖ Calibration tables : ASCII ? CDF ?

LFR ground segment activities : PLANNING



❖ Current planning and roadmap if L1R option is agreed by ROC and teams:

- ❖ L1R CDF XLS and skeletons definition : summer 2017
- ❖ Waveform products : L1→L1R software : end oct. 2017
- ❖ Spectral products : L1→L2 software : end oct. 2017 (depending on availability of calibration tables from SCM and BIAS)

*** If L2R pipeline is maintained for interference campaign, planning is almost the same.*

Thank you



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