

(2020-04-23) RCS telecon #21

Goals

- ROC RCS telecon

Date

23 avr. 2020 at 2pm

Attendees

- [Xavier Bonnin](#)
- Jean-Yves Brochot
- Thomas Chust
- Erik Johansson
- Bruno Katra
- Matthieu Kretschmar
- Rodrigue Piberne
- Quynh Nhu Nguyen
- David Pisa
- Jan Soucek
- Antonio Vecchio

Agenda





1. RPW L1/HK CDF processing status overview (Xavier)
2. RPW L1R/L2 CDF data processing status overview (Quynh Nhu, Teams)
3. Summary plots delivery and implementation at LESIA (All)
4. SPICE implementation (All)
5. Calibration files (status, catalog file)
6. Next telecon
7. AOB



Discussion items

Item	Notes	Action-items
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1.a

- RPW L1/HK data processing status
 - Bias L1 CURRENT CDFs have been shared (see <https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data/BIA/>)
 - Samples of Bias L1 SWEEP CDFs - Verification with Bias team in progress
 - Automated L1/HK CDF production is on-going
 - Provision of SPICE kernels by the SOC via GFTS is now automated (and regular). See <https://rpw.lesia.obspm.fr/roc/data/private/solo/soc/spice/>
 - Adding in metadata SPICE kernels used to process L0/L1/HK Epoch times is on-going (for L1/HK CDF they will provide as entries of the "Parents" global attribute)
 - First L1 CDF for SBM mode should be available next week in the ROC Web site
 - To be done: QUALITY_BITMASK/QUALITY_FLAG, SOOP/OBS_ID
- L1 CDF anomaly status
 - Debugging TNR L1 CDF is on-going (https://gitlab.obspm.fr/ROC/RCS/THR_CALBAR/-/issues/45)
 - Origin of issue https://gitlab.obspm.fr/ROC/RCS/TDS_CALBA/-/issues/26 identified, but need to implement post-processing (not planned before cruise phase)
 - Is issue https://gitlab.obspm.fr/ROC/RCS/LFR_CALBUT/-/issues/33 can be closed ?
 - Is issue https://gitlab.obspm.fr/ROC/RCS/LFR_CALBUT/-/issues/31 can be closed ?
 - No new for https://gitlab.obspm.fr/ROC/RCS/LFR_CALBUT/-/issues/32
- Older L0/L1/HK CDFs ready to be moved into "former_versions" subdir (done next week)
- SOLO HK parameter
 - EDDS XML format files available "as is" in https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data/SOLO_HK/2020/
 - Description of current HK data retrieved given in [SOLO HK Parameter data](#) (in progress)

<p>2</p>	<ul style="list-style-type: none"> RPW L1R/L2 data processing status at LESIA <p>See 200423_ROC_Telecon21_NQN.pdf</p> <ul style="list-style-type: none"> Anomaly report <ul style="list-style-type: none"> SCM SURV-CWF L2 data: problem with SAMPLING_RATE (to be fixed in SCMCAL 0.11.0) Anomaly reported by LFR concerning BP1 L2 skeletons V06 RCS teams must only commit/push CDF skeleton tables (ASCII) in the "rcs" branch of the DataPool Git repo. Proposal for RCS update at LESIA and L1R/L2 generation cadence ? <ul style="list-style-type: none"> RCS update every TBD weeks or months ? After each delivery ? It is discussed to not share (even with CoIs) L1/L2 CDFs which are not at least well time-stamped (to be discussed at the next ROB telecon) The "GO" to (re)generate first L2 to be delivered to the CDAG at ESAC will be discussed on next ROB telecon Teams need to be able to look at "failed" L1R/L2 CDF processing. Xavier and Quynh Nhu will put "failed" L1R/L2 CDF in specific directories accessible to the teams (same for log files) 	<ul style="list-style-type: none"> Action Quynh Nhu: Implement "failed" L1R/L2 CDF prod. in the ROC pipeline <div data-bbox="1128 210 1485 457">  ROCDATPRO-119 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> Action Xavier: Provide to the Teams a first list of the L1/L1R/L2 CDF points of automated checking implemented or to be implemented in the pipeline <div data-bbox="1128 552 1485 800">  ROCDATPRO-120 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> Action Xavier: Discuss at the ROB telecon about the data sharing (shared only time-stamped) <div data-bbox="1128 873 1485 1121">  ROCDATPRO-121 - Jira project doesn't exist or you don't have permission to view it. </div>
<p>3.</p>	<ul style="list-style-type: none"> Implementation in two steps: <ol style="list-style-type: none"> Teams drop their summary plot files in the dedicated 'summary_plots' folder in the SFTP at LESIA. Then ROC team moves the files into the ROC Web site (https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data/SummaryPlots/) ROC will progressively get the programs (from Gitlab as RCS software) to create the summary plots at LESIA. <ul style="list-style-type: none"> In the ROC Web site, organize summary plots as daily folders as for L1/L2 daily CDF <ul style="list-style-type: none"> Conventions: <ul style="list-style-type: none"> File naming : see mail sent on April 18, 2020 at 18:30 by X.Bonnin "[roc.rcs] RPW summary plots -- proposal for file naming convention and delivery to LESIA" Descriptor field can differ from parent CDFs use to generate the plots. The only condition is to be unique and be explicit enough Use PNG as file format for quicklook Summary plots can be implemented as a feature in the RCS software or in separate program. However the RCS teams must ensure that program uses to generate summary plots can be run independently of the L1R/L2 CDF production (in nominal, the ROC plans to generate L1R/L2 CDF first, then run the production of the related summary plots) 	<ul style="list-style-type: none"> Action RCS teams: Provide before the next telecon to Xavier the list of summary plots expected to be generated <div data-bbox="1128 1276 1485 1524">  ROCDATPRO-123 - Jira project doesn't exist or you don't have permission to view it. </div> <p>(the list will be added to RPW Data Products)</p>

4.	<ul style="list-style-type: none"> Proposed implementation: <ul style="list-style-type: none"> For IDL (SCMCAL and TDS_CALBA): - An instance of SPICE/ICY N00066 has been already installed on the roc2-dev.obspm.fr and roc.obspm.fr servers in /usr/local/spice/icy folder. (N.B. feel free to use it on your own for RCS dev/test). - Before each run of the RCS by the ROC pipeline, the variable \$IDL_DLM_PATH will be automatically set to point towards the /usr/local/spice/icy/lib path containing the icy.dlm and icy.so files For Python (LFR_CALBUT): - It is highly recommended to the LFR team to use the spiceypy module (https://spiceypy.readthedocs.io/en/master/) for any SPICE computation. Please be sure to apply the version 2.2.0 working with CSPICE N00066. - spiceypy will be installed by the ROC when deploying the LFR_CALBUT virtual environment on the roc servers. As for other Python dependencies, it will be done using the requirements.txt file (for you it means just add the line "spiceypy == 2.2.0" to the config/calbut_requirements.txt file) We have noticed that BICAS (Matlab) and THR_CALBAR (IDL) are not concerned by SPICE implementation for now. Two additional environment variables SPICE_MK_PRED_PATH and SPICE_MK_FLOWN_PATH pointing towards "predicted" and "as-flown" metakernels 	
5.	<ul style="list-style-type: none"> To be delivered to ROC in "cal" folder in sftp-lesia Should now converge on naming convention solo_CAL_rpw-*.cdf To be implemented --> calibration catalog files (JSON instead of XML ?) 	<ul style="list-style-type: none"> Action RCS Team: To be applied new calibration table file naming convention for the future file delivery <div>  ROCDATPRO-124 - Jira project doesn't exist or you don't have permission to view it. </div> Action Xavier: To send before the next RCS telecon an update proposal for the calibration catalog files <div>  ROCDATPRO-125 - Jira project doesn't exist or you don't have permission to view it. </div>
6.	<ul style="list-style-type: none"> Next RCS telecon planned on June 4 at 2pm 	
7.		

Action items

Open issues


key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Closed issues

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
<div><div> Jira project doesn't exist or you don't have permission to view it.</div><div>View these issues in Jira</div></div>										

Attached items

- [200423_ROC_Telecon21_NQN.pdf](#)