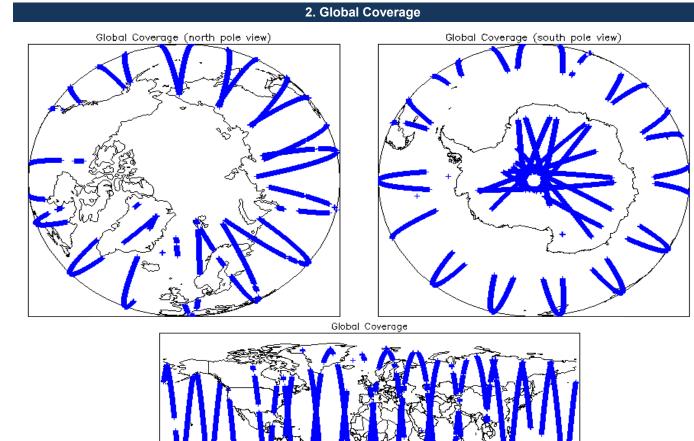


IDEAS+ Daily Report for NRT data:

<u>06/07/2015</u>

eport Production Date:	07-Jul-2015	Check	Status	
Report Production Date.		Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal	
	(FDM), and CAL Data	Product Software Check	Nominal	
		Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage	Nominal	
		Correction Error Flags	Nominal	
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8	

05-Jul-2015	None
06-Jul-2015	None
07-Jul-2015	Nothing planned
	•



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1

4. Level 1B Calibration Data Quality Check

4.1 L1 CAL Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

4.2 L1 CAL Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the processing chain.

0

4.3 L1 CAL Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined b Number of products with errors: 0	aseline and also to check the validity of Aux	liary Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 'Number of products with errors: 0	11) for each measurement record. The bit va	lue of this flag indicates any problems when set.
5. Leve	el 1B FDM Data Quality Ch	neck
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0	ure it consists of both an XML header file (.)	IDR) and a binary product file (.DBL).
5.2 L1B FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH and S Number of products with errors: 0	PH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
5.3 L1B FDM Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined b	aseline and also to check the validity of Aux	iliary Data Files is correct.
Number of products with errors: 0	·····,	
5.4.1.1P. EDM Correction Error Flags		
5.4 L1B FDM Correction Error Flags	······································	
Each product is checked to detect auxiliary corrections flagged by the ground-stat Number of products with errors: 0	ion processing chain as missing or containir	ig errors.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 18) for eac	h measurement record. The bit value of this	flag indicates any problems when set.
Attitude Correction Missing: In Baseline-C all FDM products are missing Attitud releases.	le Correction as star tracker data are not ava	ailable in time for processing. This is a known issue and will be fixed in future
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150706T020048_20150706T020104_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150706T033658_20150706T033714_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150706T051335_20150706T051506_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150706T080412_20150706T083718_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150706T222435_20150706T223924_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Lev	el 2 FDM Data Quality Ch	eck
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0	ure it consists of both an XML header file (.)	IDR) and a binary product file (.DBL)
6.2 L2 FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH and S Number of products with errors: 0	PH in order to identify any inconsistencies a	nd/or errors raised by the processing chain.
6.3 L2 FDM Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined b	aseline and also to check the validity of Aux	iliary Data Files is correct.
Number of products with errors: 0		
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-stat Number of products with errors: 0	ion processing chain as missing or containir	ig errors.
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measuremen	t record. The bit value of this flag is an asse	ssment of the measurement quality by the processing chain.
Attitude Correction Missing: In Baseline-C all FDM products are missing Attituc releases.	le Correction as star tracker data are not ava	ailable in time for processing. This is a known issue and will be fixed in future
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150706T020048_20150706T020104_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150706T033658_20150706T033714_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150706T051335_20150706T051506_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150706T080412_20150706T083718_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150706T222435_20150706T223924_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

6.6 L2 FDM Range Measurement Flags

Each product is checked to detect range measurements flagged by the processing chain as missing or containing errors.

Number of products with errors:	3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150706T052306_20150706T052325_C001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.
CS_OFFL_SIR_FDM_220150706T065954_20150706T070045_C001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.
CS_OFFL_SIR_FDM_220150706T234643_20150707T000138_C001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.

6.7 L2 FDM SWH and Backscatter Measurement Flags

Each product is checked to detect parameters related to SWH and sigma0 that are flagged by the processing chain as missing or containing errors. 0

Number of products with errors:

6.8 L2 FDM Geophysical Measurement Flags

Each product is checked to detect geophysical measurements flagged by the processing chain as missing or containing errors.

0

All

2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150706T052306_20150706T052325_C001		The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150706T065954_20150706T070045_C001		The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

7. QCC Check

The QCC is a CryoSat facility that performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_FDM_1B	136	0	0	0	0
SIR_FDM_2	136	0	0	0	0
SIR_FDM_2	136	U	U	0	0
7.1 QCC Errors					

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: