

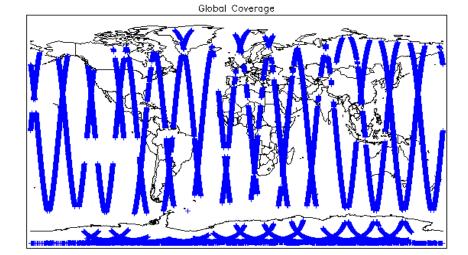
IDEAS+ Daily Report for NRT data:

<u>05/12/2014</u>

Demant Draduation Dates	: 08-Dec-2014	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	
Data Used:	(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	

Mission / Instrument News			
04-Dec-2014	SIRAL unavailability on 4-December-2014 from 12:16:06 to 14:02:14 due to a planned orbit manoeuvre.		
05-Dec-2014	None		
06-Dec-2014	Nothing planned		

Clobal Coverage (north pole view) Global Coverage (south pole view) Global Coverage (south pole view)



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 I	paseline and also to check the validity of Aux	xiliary Data Files is correct.
Number of products with errors:	0		
4.4 L1 CAL Measurement Conf	idence Flags		
CryoSat Cal1 and Cal2 data includes a measu	urement confidence flag word (field	11) for each measurement record. The bit v	alue of this flag indicates any problems when set.
Number of products with errors:	0		
	5. Lev	el 1B FDM Data Quality C	heck
5.1 L1B FDM Product Format C		,	
		ours it consists of both on VML booder file (LIDD) and a binary product file (DDI)
Each product, retrieved and unpacked from th Number of products with errors:	0	sure it consists of both an XIVIL header file (.	HDR) and a binary product file (.DBL).
-			
5.2 L1B FDM Product Header A	nalysis		
		SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		
5.3 L1B FDM Auxilary Data File	Usage Check		
Each product is checked for missing Data Set	Descriptors wrt a pre-determined h	paseline and also to check the validity of Aux	iliary Data Files is correct.
Number of products with errors:	0		
5.4 L1B Correction Error Flags			
Each product is checked to detect auxiliary co	rrections flagged by the ground-sta	tion processing chain as missing or containi	ng errors.
Number of products with errors:	0		
5.5 L1B FDM Measurement Co	nfidence Flags		
CryoSat L1B data includes a measurement co	-	ch measurement record. The bit value of this	s flag indicates any problems when set.
Number of products with errors:	4		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_1B_20141205T002303	_20141205T003129_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20141205T152133	_20141205T152232_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141205T170042_	_20141205T170154_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141205T184320_	_20141205T184332_B001	Attitude correction missing	The attitude has not been corrected
	6. Lev	vel 2 FDM Data Quality Ch	eck
6.1 L2 FDM Product Format Ch			
Each product, retrieved and unpacked from th Number of products with errors:	0	sure it consists of both an XIVIL header file (.	HDR) and a binary product file (.DBL)
-			
6.2 L2 FDM Product Header An	alysis		
For all products, a series of pre-defined check	s are carried out on the MPH and S	SPH in order to identify any inconsistencies a	and/or errors raised by the processing chain.
	field #35 and SPH field #33). The	y are set by the FDM processor when an err	ag). These flags are set within L2 Header files (MPH field #19 and SPH field or is detected during the L2 processing and also when the percentage of t to 5%).
This issue is under investigation.			
Number of products with errors:	0		
6.3 L2 FDM Auxiliary Data File	Usage Check		
Each product is checked for missing Data Set	Descriptors wrt a pre-determined I	paseline and also to check the validity of Aux	xiliary Data Files is correct.
Number of products with errors:	0		
6.4 L2 FDM Correction Error FI	ags		
Each product is checked to detect auxiliary co	rrections flagged by the ground-sta	tion processing chain as missing or containi	ng errors.
Number of products with errors:	0		
6.5 L2 FDM Measurement Conf	idence Flags		
CryoSat L2 data includes a quality flag word (f	ield 8) for each 20-Hz measureme	nt record. The bit value of this flag is an asse	essment of the measurement quality by the processing chain.
Number of products with errors:	4		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_220141205T002303_	_20141205T003129_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220141205T152133_	_20141205T152232_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected
CS_OFFL_SIR_FDM_220141205T170042_	_20141205T170154_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected

The attitude has not been corrected

Attitude correction missing

CS_OFFL_SIR_FDM_2__20141205T184320_20141205T184332_B001

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:	2

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141205T200516_20141205T202241_B001	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_220141205T204339_20141205T205550_B001	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

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141205T041408_20141205T041615_B001	Ocean Retracking Quality Flag	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_220141205T081443_20141205T084538_B001	Ocean Retracking Quality Flag	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_220141205T095351_20141205T100809_B001	Ocean Retracking Quality Flag	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_220141205T185914_20141205T190103_B001	Ocean Retracking Quality Flag	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_220141205T200516_20141205T202241_B001	Ocean Retracking Quality Flag	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_220141205T204339_20141205T205550_B001	Ocean Retracking Quality Flag	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	166	0	0	0	0
SIR_FDM_2	165	0	0	0	0
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7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: