

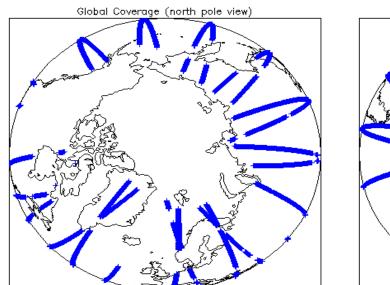
IDEAS+ Daily Report for NRT data:

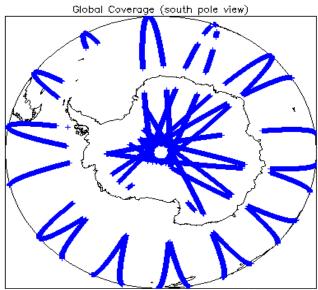
<u>20/01/2015</u>

Report Production Date:	21-Jan-2015	Check	Status
		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, 6.7 and 6.8

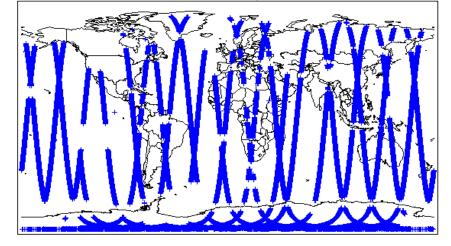
Mission / Instrument News		
19-Jan-2015	None	
20-Jan-2015	SIRAL unavailability on 20-January-2015 from 09:39:21 to 11:32:49 due to a planned orbit manoeuvre.	
21-Jan-2015	Nothing planned	

2. Global Coverage





Glob<u>al Coverage</u>



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 Number of products with errors: 0	baseline and also to check the validity of Aux	iliary Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field	d 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 Cl	neck
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	eeure it consiste of both on VML booder file (LIDD) and a binant product file (DDL)
Number of products with errors: 0	Isure it consists of both an Awit header life (.	non) and a binary product me (.DDL).
5.2 L1B FDM 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 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	baseline 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 corrections flagged by the ground-st	ation processing chain as missing or containi	ng errors.
Number of products with errors: 0		
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each of the second secon	ach measurement record. The bit value of this	flag indicates any problems when set.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150120T073636_20150120T074923_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150120T124619_20150120T124718_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150120T142549_20150120T142616_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150120T174921_20150120T175139_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150120T222706_20150120T223827_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Le	vel 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 en	nsure it consists of both an XML header file (.	HDR) and a binary product file (.DBL)
Number of products with errors: 0		
6.2 L2 FDM 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 a	and/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 #29) and also within the L2 Product files (MPH field #35 and SPH field #33). Th Data Set Records free of processing errors is below the minimum acceptable the	ey are set by the FDM processor when an err	or is detected during the L2 processing and also when the percentage of
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	baseline 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-sit	ation processing chain as missing or containi	ng errors.
Number of products with errors: 0		
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement	ent record. The bit value of this flag is an asse	essment of the measurement quality by the processing chain.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150120T073636_20150120T074923_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150120T124619_20150120T124718_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150120T142549_20150120T142616_B001	Attitude correction missing	The attitude has not been corrected

 CS_OFFL_SIR_FDM_2_20150120T174921_20150120T175139_B001
 Attitude correction missing

 CS_OFFL_SIR_FDM_2_20150120T222706_20150120T223827_B001
 Echo error

In missing The attitude has not been corrected 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: 2				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220150120T030621_20150120T030951_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_220150120T194841_20150120T200036_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.

Product Test Failed	Description
CS_OFFL_SIR_FDM_220150120T045204_20150120T052020_B001 OCOG Backscatter St	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #47, #48, #49 and #50 should be ignored for these records.

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

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150120T030621_20150120T030951_B001		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_220150120T121517_20150120T124414_B001		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_220150120T194841_20150120T200036_B001		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	161	0	0	0	0
SIR_FDM_2	159	0	0	0	0
7.1 QCC Errors					

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: