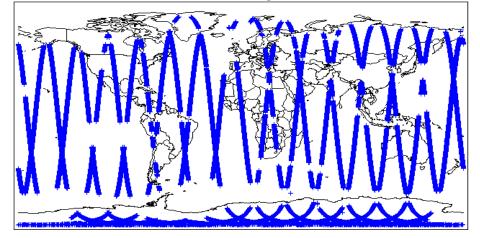
	AS Daily Report for NRT	<u>data:</u> <u>29-Nov-2013</u>	IDEAS Y
		1. Overview	
Report Production Date:	02-Dec-2013	Check Server check: science-pds.cryosat.esa.int	Status Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Server check: calval-pds.cryosat.esa.int Product Software Check	Nominal Nominal
	·	Product Format Check Product Header Analysis	Nominal Nominal
		Auxiliary Data File Usage Correction Error Flags	See Section 5.3 and 6.3 See Sections 5.4 and 6.4
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instrument News28-Nov-2013None29-Nov-2013None			
30-Nov-2013 Nothing planne	ed		

2. Global Coverage

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

Global Coverage



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 & 2

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).

0

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. Number of products with errors:
0

4.3 L1 CAL Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined bas	seline and also to check the validity of Auxilia	ry Data Files is correct.
Number of products with errors: 0		
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11) for each measurement record. The bit valu	e of this flag indicates any problems when set.
Number of products with errors: 0	,	
5 evel 1	B FDM Data Quality Chec	k
	B i Din Data Quality chec	n
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensur Number of products with errors: 0	e it consists of both an XML header file (.HD	R) 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 SP	H in order to identify any inconsistencies and	I/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 bas Number of products with errors: 156	seline and also to check the validity of Auxilia	ry Data Files is correct.
Product	AUX File	Comment
		000_20131130T23 Missing Forecast Auxiliary File:
All SIR_FDM_1B products (156 products)	5959_0001	CS_OPER_AUXIIONGIM
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-static	n processing chain as missing or containing	errors.
Number of products with errors: 156		
Product	Test Failed	Description
All SIR_FDM_1B products (156 products)	GIM Ionospheric Correction	Due to a missing Forecast Auxiliary File there was an error with the GIM ionospheric correction.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each	measurement record. The bit value of this fla	ag indicates any problems when set.
Number of products with errors: 4		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20131129T041146_20131129T042832_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20131129T071526_20131129T071552_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20131129T102918_20131129T103033_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20131129T224033_20131129T225009_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Level 2	2 FDM Data Quality Checl	5
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensur	e it consists of both an XML header file (.HD	R) 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 SP	H in order to identify any inconsistencies and	Vor errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 FD field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). T percentage of Data Set Records free of processing errors is below the minimum ac	hey are set by the FDM processor when an e	error is detected during the L2 processing and also when the
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 bas	seline and also to check the validity of Auxilia	ry Data Files is correct.
Number of products with errors: 155		
Product	AUX File	Comment
All SIR_FDM_2 products (155 products)	CS_OPER_AUXIIONGIM_20131130T0000 5959_0001	000_20131130T23 Missing Forecast Auxiliary File: CS_OPER_AUXIIONGIM

6.4 L2 FDM Correction Error Flags

Each product is checked to detect auxiliary corrections flagged by the ground-station processing chain as missing or containing errors.

Number of products with errors: 155

Product Test Fai	ailed	Description
All SIR_FDM_2 products (155 products) GIM Iono	nospheric Correction	Due to a missing Forecast Auxiliary File there was an error with the GIM ionospheric correction.

6.5 L2 FDM Measurement Confidence Flags

CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chain.

Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220131129T041146_20131129T042832_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220131129T071526_20131129T071552_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220131129T102918_20131129T103033_B001	Attitude correction missing	The attitude has not been corrected

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_220131129T032235_20131129T033749_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_220131129T033951_20131129T034912_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_220131129T191656_20131129T193318_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.

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. 6

0

All

Number of products with errors:

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220131129T021219_20131129T021741_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_220131129T032235_20131129T033749_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_220131129T105041_20131129T112333_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_220131129T122810_20131129T130214_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_220131129T155436_20131129T160503_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_220131129T191656_20131129T193318_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	156	0	0	0	0
SIR_FDM_2	155	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: