

**Report Production** 

Data Used:

# IDEAS+ Daily Report for NRT data:

# <u>16/07/2015</u>

Nominal

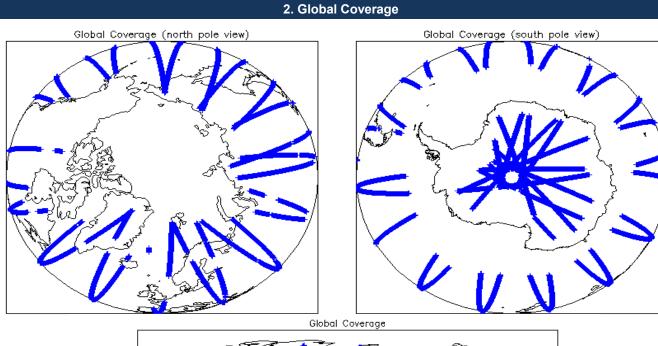
See Sections 5.5, 6.5, 6.6 and 6.8

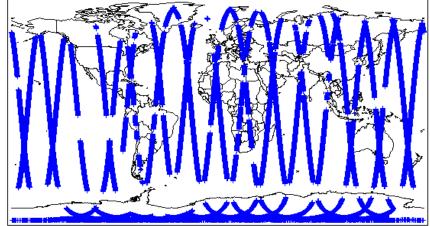
	1. Overview			
Data	17 Jul 2015	Check	Status	
n Date:	17-Jul-2015	Server check: science-pds.cryosat.esa.int	Nominal	
	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal	
	(FDM), and CAL Data	Product Software Check	Nominal	
		Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage	Nominal	

Correction Error Flags

Measurement Confidence Flags

Mission / Instru	Mission / Instrument News				
15-Jul-2015	None				
16-Jul-2015	None				
17-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	d baseline and also to check the validity	of Auxiliary 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 (fie	ld 11) for each measurement record. Th	a bit value of this flag indicates any problems when set
Number of products with errors: 0	in Try for each measurement record. The	e bit value of this hag indicates any problems when set.
5. Le	vel 1B FDM Data Qualit	y Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML header	r file (.HDR) and a binary product file (.DBL).
Number of products with errors: 0		
5.2 L1B FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH and	d SPH in order to identify any inconsister	ncies 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		
	d boooline and electric should be well the	of Auvilian/ Data Eilas is correct
Each product is checked for missing Data Set Descriptors wrt a pre-determined Number of products with errors: 0	u paseline and also to check the validity	OF AUXILIARY L'ALA FILES IS COTTECT.
5.4 L1B FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-s	station processing chain as missing or co	ontaining errors.
Number of products with errors: 0		
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 18) for e	each 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_20150716T014738_20150716T014813_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150716T050134_20150716T050250_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150716T130352_20150716T132110_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150716T165645_20150716T170104_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150716T225929_20150716T231451_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Le	evel 2 FDM Data Quality	/ Check
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML header	r file (.HDR) and a binary product file (.DBL)
Number of products with errors: 0		
6.2 L2 FDM Product Header Analysis		
	d CDI Lin order to identify only inconsiste	noise and/an array voised by the processing sheir
For all products, a series of pre-defined checks are carried out on the MPH and Number of products with errors: 0		ncies and/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	d baseline and also to check the validity	of Auxiliary 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-s	station processing chain as missing or co	ontaining 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 measurem	nent record. The bit value of this flag is a	in assessment of the measurement quality by the processing chain.
Number of products with errors:         5		
		Description
Product	Test Failed	_ sourprion
	Test Failed Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150716T014738_20150716T014813_C001		The attitude has not been corrected The attitude has not been corrected
CS_OFFL_SIR_FDM_220150716T014738_20150716T014813_C001 CS_OFFL_SIR_FDM_220150716T050134_20150716T050250_C001	Attitude correction missing	
Product           CS_OFFL_SIR_FDM_220150716T014738_20150716T014813_C001           CS_OFFL_SIR_FDM_220150716T050134_20150716T050250_C001           CS_OFFL_SIR_FDM_220150716T130352_20150716T132110_C001           CS_OFFL_SIR_FDM_220150716T165645_20150716T170104_C001	Attitude correction missing 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.
Each product to checked to detect range medourements hagged by the processing chain as missing of containing chois.

•		•	
Number of produ	ts with errors:		2

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150716T160653_20150716T163936_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_220150716T184755_20150716T185558_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.

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

0

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150716T184755_20150716T185558_C001	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_220150716T210428_20150716T212121_C001	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_220150716T233623_20150716T234332_C001	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	130	0	0	0	0
SIR_FDM_2	130	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: