

# IDEAS+ Daily Report for NRT data:

# <u>21/05/2015</u>

eport Production Date:	22-May-2015	Check	Status
report Production Date.	22-Way-2015	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 Oseu.	(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

2. Global Coverage

Overview

20 May 2010	1 tonic
21-May-2015	None
22-May-2015	Nothing planned

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

 Global Coverage (south pole view)
 Image: South pole view)

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 Global Coverage (south pole view)
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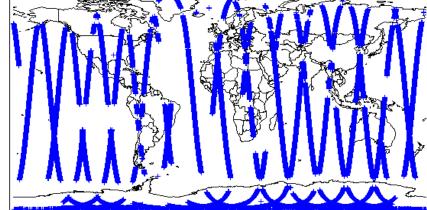
 Global Coverage (south pole view)
 Image: South pole view)

 Global Coverage (south pole view)
 Image: South pole view)

 Global Coverage (south pole view)
 Image: South pole view)

 Global Coverage (south pole view)
 Image: South pole view)

 Global Coverage (south pole view)
 Image: 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

# 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.

4.3 L1 CAL Auxiliary Data File Usaç	je Check		
Each product is checked for missing Data Set Descr		aseline and also to check the val	lidity of Auxiliary Data Files is correct.
Number of products with errors:	0		
4.4 L1 CAL Measurement Confiden	ce Flags		
CryoSat Cal1 and Cal2 data includes a measuremen	nt confidence flag word (field 1	11) for each measurement record	d. The bit value of this flag indicates any problems when set.
Number of products with errors:	0		
	5. Leve	el 1B FDM Data Qua	ality Check
5.1 L1B FDM Product Format Chec			
Each product, retrieved and unpacked from the scien Number of products with errors:	0		
-			
5.2 L1B FDM Product Header Analy	/sis		
		PH in order to identify any incons	sistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		
5.3 L1B FDM Auxilary Data File Usa	age Check		
Each product is checked for missing Data Set Descr	riptors wrt a pre-determined ba	aseline and also to check the val	lidity of Auxiliary Data Files is correct.
Number of products with errors:	0		
5.4 L1B FDM Correction Error Flag	S		
Each product is checked to detect auxiliary correctio		tion processing chain as missing	or containing errors.
Number of products with errors:	0		,
5.5.1.1P. EDM Massurament Confide			
5.5 L1B FDM Measurement Confide		h mean memory record. The bit i	un of this flag indicates any architeme when est
CryoSat L1B data includes a measurement confiden			raide of this hag indicates any problems when set. a are not available in time for processing. This is a known issue and will be fixed in futur
releases.	in products are missing / talda		
Number of products with errors:	2		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150521T045155_20150 CS_OFFL_SIR_FDM_1B_20150521T155132_20150		Echo error Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo
	6. Lev	el 2 FDM Data Qua	lity Check
6.1 L2 FDM Product Format Check			
Each product, retrieved and unpacked from the scien	nce server, is checked to ens	ure it consists of both an XML he	eader file (.HDR) and a binary product file (.DBL)
Number of products with errors:	0		
6.2 L2 FDM Product Header Analys	is		
		PH in order to identify any incom	sistencies and/or errors raised by the processing chain.
Number of products with errors:	0		
6.3 L2 FDM Auxiliary Data File Usa	ao Chock		
	-		i dha af Annillean Dala Eileach annach
Each product is checked for missing Data Set Descr Number of products with errors:	0	aseline and also to check the val	Idity of Auxiliary Data Files is correct.
-	-		
6.4 L2 FDM Correction Error Flags			
Each product is checked to detect auxiliary correction		tion processing chain as missing	or containing errors.
Number of products with errors:	0		
6.5 L2 FDM Measurement Confiden	ice Flags		
CryoSat L2 data includes a quality flag word (field 8)	for each 20-Hz measurement	t record. The bit value of this flag	is an assessment of the measurement quality by the processing chain.
	A products are missing Attitud	le Correction as star tracker data	a are not available in time for processing. This is a known issue and will be fixed in futur
releases. Number of products with errors:	2		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_220150521T045155_20150	0521T045403_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150521T155132_20150	)521T160847_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001       OCOG Retracked Range Flag       indicating the ignored for the i	fail flag is set by the OCOG call, for one or more records, e values stored in fields #18, #19, #20 and #21 should be these records. ng errors.
2S_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001       OCOG Retracked Range Flag       The master frindicating the indicating the ignored for the indicating the ignored for the ignored for the indicating the ignored for the ignored ignored for the ignored ignored ignored ignored for the ignored igno	fail flag is set by the OCOG call, for one or more records, e values stored in fields #18, #19, #20 and #21 should be these records. Ing errors. Retracking Quality Flag is set indicating the CFI Ocean ras not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001       OCOG Retracked Range Flag       indicating the ignored for the i	e values stored in fields #18, #19, #20 and #21 should be these records. Ing errors. N Retracking Quality Flag is set indicating the CFI Ocean ras not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
Each product is checked to detect parameters related to SWH and sigma0 that are flagged by the processing chain as missing or containing Number of products with errors: 0 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. Number of products with errors: 4 Product CS_OFFL_SIR_FDM_2_20150521T013159_20150521T070439_C001 Cs_OFFL_SIR_FDM_2_20150521T063158_20150521T070439_C001 Cs_OFFL_SIR_FDM_2_20150521T02521T02521T02520_C001 Cs_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001 Cs_OFFL_SIR_FDM_2_20150521T124948_20150521T12502_C001 Cs_OFFL_SIR_FDM_20UAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Retracking Quality Flag is set indicating the CFI Ocean ras not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
Number of products with errors:       0         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.         Number of products with errors:       4         Product       Test Failed       Description         CS_OFFL_SIR_FDM_2_20150521T013159_20150521T013257_C001       Ocean Retracking Quality Flag       The Ocean R Retracker wa         CS_OFFL_SIR_FDM_2_20150521T063158_20150521T070439_C001       Ocean Retracking Quality Flag       The Ocean R Retracker wa         CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001       Ocean Retracking Quality Flag       The Ocean R Retracker wa	Retracking Quality Flag is set indicating the CFI Ocean ras not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
Number of products with errors:       0         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.         Number of products with errors:       4         Product       Test Failed       Description         CS_OFFL_SIR_FDM_2_20150521T013159_20150521T013257_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_20150521T063158_20150521T070439_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001       Ocean Retracking Quality Flag       The Ocean Retracker was	Retracking Quality Flag is set indicating the CFI Ocean ras not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
Number of products with errors:     4       Product     Test Failed     Description       CS_OFFL_SIR_FDM_2_20150521T013159_20150521T013257_C001     Ocean Retracking Quality Flag     The Ocean R Retracker wa       CS_OFFL_SIR_FDM_2_20150521T063158_20150521T070439_C001     Ocean Retracking Quality Flag     The Ocean R Retracker wa       CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001     Ocean Retracking Quality Flag     The Ocean R Retracker wa	Retracking Quality Flag is set indicating the CFI Ocean as not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
Each product is checked to detect geophysical measurements flagged by the processing chain as missing or containing errors.         Number of products with errors:       4         Product       Test Failed       Description         CS_OFFL_SIR_FDM_2_20150521T013159_20150521T013257_C001       Ocean Retracking Quality Flag       The Ocean R         CS_OFFL_SIR_FDM_2_20150521T063158_20150521T070439_C001       Ocean Retracking Quality Flag       The Ocean R         CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001       Ocean Retracking Quality Flag       The Ocean R	Retracking Quality Flag is set indicating the CFI Ocean as not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
Number of products with errors:     4       Product     Test Failed     Description       CS_OFFL_SIR_FDM_2_20150521T013159_20150521T013257_C001     Ocean Retracking Quality Flag     The Ocean R Retracker wa       CS_OFFL_SIR_FDM_2_20150521T063158_20150521T070439_C001     Ocean Retracking Quality Flag     The Ocean R Retracker wa       CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001     Ocean Retracking Quality Flag     The Ocean R Retracker wa	Retracking Quality Flag is set indicating the CFI Ocean as not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
Product         Test Failed         Description           CS_OFFL_SIR_FDM_220150521T013159_20150521T013257_C001         Ocean Retracking Quality Flag         The Ocean R Retracker wa           CS_OFFL_SIR_FDM_220150521T063158_20150521T070439_C001         Ocean Retracking Quality Flag         The Ocean R Retracker wa           CS_OFFL_SIR_FDM_220150521T124948_20150521T125202_C001         Ocean Retracking Quality Flag         The Ocean R Retracker wa	Retracking Quality Flag is set indicating the CFI Ocean as not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220150521T013159_20150521T013257_C001       Ocean Retracking Quality Flag       The Ocean R Retracker wa         CS_OFFL_SIR_FDM_220150521T063158_20150521T070439_C001       Ocean Retracking Quality Flag       The Ocean R Retracker wa         CS_OFFL_SIR_FDM_220150521T063158_20150521T070439_C001       Ocean Retracking Quality Flag       The Ocean R Retracker wa         CS_OFFL_SIR_FDM_220150521T124948_20150521T125202_C001       Ocean Retracking Quality Flag       The Ocean R Retracker wa	Retracking Quality Flag is set indicating the CFI Ocean as not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_2_20150521T03359_20150521T070439_C001     Ocean Retracking Quality Flag     Retracker wa       CS_OFFL_SIR_FDM_2_20150521T063158_20150521T070439_C001     Ocean Retracking Quality Flag     The Ocean R       CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001     Ocean Retracking Quality Flag     The Ocean R       CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001     Ocean Retracking Quality Flag     The Ocean R	as not successfully executed for one or more records. Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001 Ocean Retracking Quality Flag Retracker wa CS_OFFL_SIR_FDM_2_20150521T124948_20150521T125202_C001 Ocean Retracking Quality Flag Retracker wa	
CS_OFFL_SIR_FDM_2201505211124948_201505211125202_C001 Ocean Retracking Quality Flag Retracker wa	
The Ocean R	Retracking Quality Flag is set indicating the CFI Ocean as not successfully executed for one or more records.
	Retracking Quality Flag is set indicating the CFI Ocean ras 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	a facilities. A list of the tests which raised errors or warnin
provided below.	,
Product type Nb. Products Nb. QCC Reports Nb. Valid	Nb. Warnings Nb. Errors
SIR_FDM_1B         144         0         0           SIR_FDM 2         140         0         0         0	0 0 0 0
	0 0

Number of products with missing QCC reports:

All