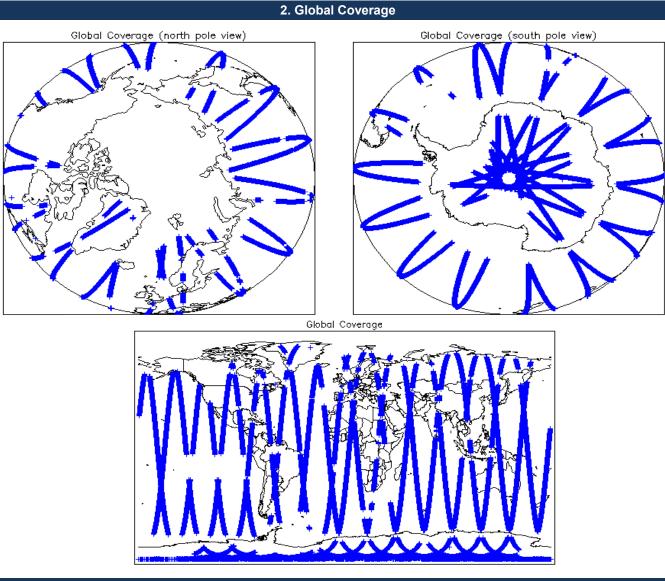


# IDEAS+ Daily Report for NRT data:

# <u>02/04/2015</u>

Report Production Date:	07-Apr-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 and 6.8	

01-Apr-2015	None
02-Apr-2015	None
03-Apr-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

## 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.

Number of products with errors:

0

4.3 L1 CAL Auxiliary Data File Usage	Check		
Each product is checked for missing Data Set Descripto	rs wrt a pre-determined bas	seline and also to check the validity of Auxil	ary 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 co	onfidence flag word (field 11	) for each measurement record. The bit val	ue of this flag indicates any problems when set.
Number of products with errors:	0		
	5. Level	1B FDM Data Quality Ch	eck
5.1 L1B FDM Product Format Check		-	
Each product, retrieved and unpacked from the science	server is checked to ensur	re it consists of both an XML header file ( H	DR) and a binary product file ( DBI )
Number of products with errors:	0		
5.2 L1B FDM Product Header Analysis	8		
		H in order to identify any inconsistencies ar	nd/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		
5.3 L1B FDM Auxilary Data File Usage	Chack		
Each product is checked for missing Data Set Descripto		coline and also to check the validity of Auvil	ian/ Data Files is correct
Number of products with errors:	0		ary Data Files is correct.
5.4 L1B FDM Correction Error Flags			
Each product is checked to detect auxiliary corrections f Number of products with errors:	lagged by the ground-statio	n processing chain as missing or containing	g errors.
-			
5.5 L1B FDM Measurement Confidence	ce Flags		
CryoSat L1B data includes a measurement confidence f	ilag word (field 14) for each	measurement record. The bit value of this	flag indicates any problems when set.
Number of products with errors:	1		
Product CS_OFFL_SIR_FDM_1B_20150402T195915_2015040	2T200259_C001	Test Failed Echo error	Description The Echo Rx1 Error flag is set, indicating a degraded raw echo
	<u> 6 Lovo</u>	1.2 EDM Data Quality Cha	
	6. Leve	I 2 FDM Data Quality Che	9CK
6.1 L2 FDM Product Format Check			
Each product, retrieved and unpacked from the science		re it consists of both an XML header file (.H	DR) 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	ed out on the MPH and SP	H in order to identify any inconsistencies ar	nd/or errors raised by the processing chain.
	and SPH field #33). They a	are set by the FDM processor when an erro	<ol> <li>These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%).</li> </ol>
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 Descripto	rs wrt a pre-determined bas	seline and also to check the validity of Auxil	iary 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 f	lagged by the ground-statio	n processing chain as missing or containing	g 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 r	record. The bit value of this flag is an asses	sment of the measurement quality by the processing chain.
Number of products with errors:	1		
Product			Description
CS_OFFL_SIR_FDM_220150402T195915_20150402	2T200259_C001	Echo error	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:	3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150402T014906_20150402T021318_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_220150402T122601_20150402T125337_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_220150402T174052_20150402T175021_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: 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.

7

Number of products with errors:

Product	Test Failed	Description
	Ocean Betracking Quality Elag	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_220150402T014906_20150402T021318_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_220150402T122601_20150402T125337_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_220150402T131955_20150402T135157_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_220150402T150127_20150402T151321_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_220150402T174052_20150402T175021_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_220150402T182947_20150402T184943_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	153	0	0	0	0
SIR_FDM_2	149	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with errors:	(	)			-
7.2 Missing QCC Reports					
Number of products with missing QC	C reports: A	I			