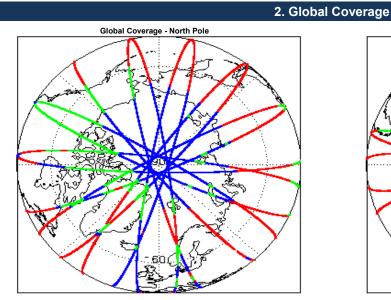


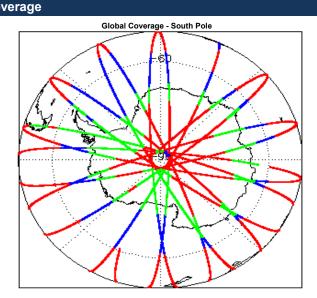
# IDEAS+ Daily Report for OFFLINE data:

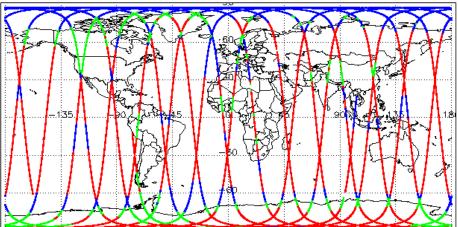
<u>06/07/2017</u>

1. Overview					
			Check Status		
Report Production Date:	04-Aug-2017	Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used:	CryoSat Ice Processor		Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used.			Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data		Product Format Check	Nominal	
Data Useu.			Product Header Analysis	Nominal	
· · · · · · · · · · · · · · · · · · ·		Star Tracker Usage Check	Nominal		
			L1B Calibration Usage Check	Nominal	
			L1B & L2 Auxiliary Data File Usage Check	Nominal	
			L1B & L2 Auxiliary Correction Error Check	Nominal	
			L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5	

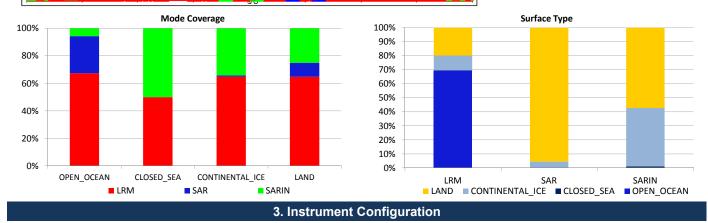
Mission / Instrument News				
05-Jul-2017	None			
06-Jul-2017	SIRAL unavailability on 06-Jul-2017 from 03:47:08 to 05:34:33 due to a planned orbit manoeuvre.			
07-Jul-2017	Nothing planned			







Mode Coverage (%)				
	LRM	20.7		
	SAR	12.8		
SARIn 0.0				



The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use: SIRAL - A

## 4. Level 1B Data Quality Check

### 4.1 L1B 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 product file (.DBL)

# Number of products with errors:

4.2 L1B 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 ground-segment processing chain.

Number of products with errors:

### 4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing

Number of products with errors:

### 4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

Number of products with errors:

## 4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

# 4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration. Number of products with errors: 1

Test Failed

#### Number of products with errors

Product

CS\_OFFL\_SIR\_LRM\_1B\_20170706T100045\_20170706T101520\_C001

Echo error, TRK echo error

Description The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

### 5. Level 2 Data Quality Check

### 5.1 L2 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 product file (.DBL).

Number of products with errors:

### 5.2 L2 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 ground-segment processing chain. Number of products with errors: 0

### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

### 5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

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SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

Product		Test Failed	Description
	CS_OFFL_SIR_LRM_220170706T002905_20170706T003020_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220170706T003612_20170706T005748_C001
CS_OFFL_SIR_LRM_220170706T005751_20170706T010145_C001
CS_0FFL_SIR_LRM_2_20170706T013523_20170706T015914_C001
CS_OFFL_SIR_LRM_220170706T020803_20170706T021128_C001
CS_OFFL_SIR_LRM_220170706T023129_20170706T024129_C001
CS_OFFL_SIR_LRM_220170706T031209_20170706T033905_C001
CS_OFFL_SIR_LRM_220170706T053433_20170706T055541_C001
CS_OFFL_SIR_LRM_220170706T055811_20170706T060936_C001
CS_OFFL_SIR_LRM_220170706T063928_20170706T065614_C001
CS_0FFL_SIR_LRM_220170706T070121_20170706T070622_C001
CS OFFL SIR LRM 2 20170706T071328 20170706T074916 C001
CS_OFFL_SIR_LRM_220170706T080029_20170706T080045_C001
CS_OFFL_SIR_LRM_220170706T081105_20170706T083359_C001
CS_OFFL_SIR_LRM_220170706T085309_20170706T090946_C001
CS_OFFL_SIR_LRM_220170706T091427_20170706T092300_C001
CS_OFFL_SIR_LRM_220170706T092303_20170706T092846_C001
CS_OFFL_SIR_LRM_220170706T094153_20170706T095831_C001
CS_OFFL_SIR_LRM_220170706T100045_20170706T101520_C001
CS_OFFL_SIR_LRM_220170706T103156_20170706T104650_C001
CS_OFFL_SIR_LRM_220170706T104850_20170706T105812_C001
CS_OFFL_SIR_LRM_220170706T112231_20170706T113615_C001
CS_OFFL_SIR_LRM_220170706T114254_20170706T115557_C001
CS_OFFL_SIR_LRM_220170706T123008_20170706T123219_C001
CS_OFFL_SIR_LRM_220170706T130941_20170706T133546_C001
CS_OFFL_SIR_LRM_220170706T134201_20170706T134704_C001
CS_OFFL_SIR_LRM_220170706T135151_20170706T141522_C001
CS_OFFL_SIR_LRM_220170706T141751_20170706T142639_C001
CS_OFFL_SIR_LRM_220170706T144718_20170706T145826_C001
CS_0FFL_SIR_LRM_220170706T153016_20170706T155748_C001
CS OFFL SIR LRM 2 20170706T160138 20170706T160740 C001
CS OFFL SIR LRM 2 20170706T162025 20170706T165256 C001
CS_OFFL_SIR_LRM_2_201707061162025_201707061165256_C001 CS_OFFL_SIR_LRM_2_201707061173945_201707061174038_C001
CS OFFL SIR LRM 2 20170706T174405 20170706T174731 C001
CS_0FFL_SIR_LRM_220170706T175924_20170706T180835_C001
CS_OFFL_SIR_LRM_220170706T181120_20170706T183236_C001
CS_OFFL_SIR_LRM_2_20170706T184952_20170706T190008_C001
CS_OFFL_SIR_LRM_2_201707061194932_201707061190008_0001
CS_OFFL_SIR_LRM_220170706T193604_20170706T201128_C001
CS_OFFL_SIR_LRM_220170706T203032_20170706T210157_C001
CS_OFFL_SIR_LRM_220170706T211434_20170706T212914_C001
CS_OFFL_SIR_LRM_220170706T213356_20170706T215103_C001
CS_OFFL_SIR_LRM_220170706T220832_20170706T222210_C001
CS_OFFL_SIR_LRM_220170706T222424_20170706T224053_C001

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2)	records
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Surface Model Unavailable	records No DEM or Slope Model was used for the location of one or more records
Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Height Error	records
(Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	records There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
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Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more
Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable	There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error
Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more
Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records
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CS_OFFL_SIR_SIN_220170706T233816_20170706T233821_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170706T233923_20170706T234615_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS OFFL SIR SIN 2 201707061234740 201707061235042 C001		An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records

# 6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility 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_LRM_1B	118	118	118	0	0
SIR_LRM_2	118	118	118	0	0
SIR_LRMI2_	118	118	118	0	0
SIR_SAR_1B	92	92	92	0	0
SIR_SAR_2	92	92	92	0	0
SIR_SARI2_	92	92	92	0	0
SIR_SIN_1B	89	89	89	0	0
SIR_SIN_2	89	89	89	0	0
SIR_SINI2	89	89	89	0	0
SIR_GDR_2	13	13	13	0	0

## 6.1 QCC Errors

Number of products with QCC errors:

0

162

6.2 QCC Warnings					
Number of QCC reports with warnings	0				
6.2 Missing QCC Reports					

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Number of products with missing QCC reports: