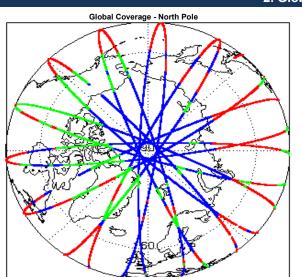
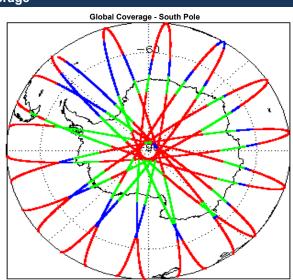


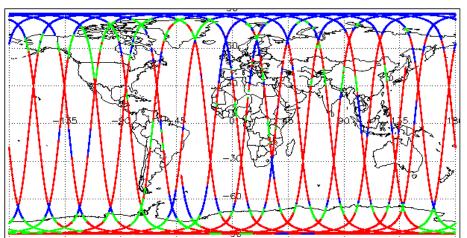
## IDEAS+ Daily Report for OFFLINE data:

20/05/2017

Penart Braduction Dates	16 Jun 2017	Check	Status
Report Production Date: 16-Jun-2017	16-Jun-2017	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used: Cry	CrucSat los Brassasar	Server check: calval-pds.cryosat.esa.int	Nominal
	CryoSat Ice Processor	Product Software Check	Nominal
Deta Usadi	Data Used: L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Used:		Product Header Analysis	See Section 4.2 and 5.2
		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
lission / Instrument News   19-May-2017 None   20-May-2017 None   21-May-2017 Nothing planned			
, , , , , , , , , , , , , , , , , , , ,			

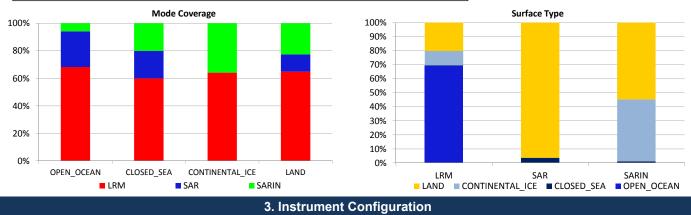






Mode Coverage	(%)
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LRM	20.3
SAR	12.7
SARIn	0.0



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

### 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:   1		
Test Failed		
Percentage of processing errors detected greater than minimum acceptable threshold.		

#### 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: 0

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:

### 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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20170520T153810_20170520T160306_C001		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:

Product	Test Failed
CS_OFFL_SIR_SAR_220170520T064515_20170520T064518_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

### 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.

Number of products with errors:

### 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.

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.

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Product CS OFFL SIR LRM 2 20170519T235732 20170520T001317 C001 CS OFFL SIR LRM 2 20170520T001348 20170520T002910 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T004602\_20170520T005605\_C001 CS OFFL SIR LRM 2 20170520T010225 20170520T011502 C001 CS OFFL SIR LRM 2 20170520T013119 20170520T015210 C001 CS OFFL SIR LRM 2 20170520T015349 20170520T020806 C001 CS OFFL SIR LRM 2 20170520T022305 20170520T024324 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T024330\_20170520T024601\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T024724\_20170520T025548\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T032459\_20170520T034702\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T040135\_20170520T042630\_C001 CS OFFL SIR LRM 2 20170520T042632 20170520T042825 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T045103\_20170520T045232\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T050204\_20170520T052703\_C001 CS OFFL SIR LRM 2 20170520T055752 20170520T061501 C001 CS OFFL SIR LRM 2 20170520T063737 20170520T064515 C001 CS OFFL SIR LRM 2 20170520T072052 20170520T075432 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T081452\_20170520T081550\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T082709\_20170520T084525\_C001 CS OFFL SIR LRM 2 20170520T085951 20170520T093359 C001 CS OFFL SIR LRM 2 20170520T094557 20170520T094617 C001 CS OFFL SIR LRM 2 20170520T095807 20170520T100242 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T100324\_20170520T102058\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T103025\_20170520T103235\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T103949\_20170520T111031\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T112831\_20170520T114658\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T114749\_20170520T120114\_C001 CS OFFL SIR LRM 2 20170520T120946 20170520T121144 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T121843\_20170520T123408\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T123610\_20170520T124532\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T130731\_20170520T130956\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T131209\_20170520T132449\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T134803\_20170520T135548\_C001 CS OFFL SIR LRM 2 20170520T135824 20170520T141311 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T145107\_20170520T152319\_C001 CS OFFL SIR LRM 2 20170520T152620 20170520T152835 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T152843\_20170520T153442\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T153810\_20170520T160306\_C001 CS OFFL SIR LRM 2 20170520T161213 20170520T161305 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T163543\_20170520T164528\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T165104\_20170520T170205\_C001 CS OFFL SIR LRM 2 20170520T171642 20170520T174221 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T180842\_20170520T182442\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T182641\_20170520T184059\_C001 CS OFFL SIR LRM 2 20170520T191354 20170520T192142 C001

Test Failed Description leight Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) ecords Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter 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CS OFFL SIR LRM 2 20170520T194655 20170520T202022 C001 CS OFFL SIR LRM 2 20170520T203504 20170520T205339 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T212536\_20170520T215857\_C001 CS OFFL SIR LRM 2 20170520T220651 20170520T221104 C001 CS\_OFFL\_SIR\_LRM\_2\_20170520T221505\_20170520T224134\_C001 CS OFFL SIR LRM 2 20170520T224158 20170520T224927 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T230519\_20170520T231620\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T232100\_20170520T232251\_C001 CS OFFL SIR LRM 2 20170520T232256 20170520T233826 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170520T235659\_20170521T000920\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T002938\_20170520T003119\_C001 CS OFFL SIR SIN 2 20170520T003657 20170520T003704 C001 CS OFFL SIR SIN 2 20170520T012219 20170520T012433 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T020849\_20170520T021035\_C001 CS OFFL SIR SIN 2 20170520T021611 20170520T021618 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T021721\_20170520T022214\_C001 CS OFFL SIR SIN 2 20170520T034844 20170520T035116 C001 CS OFFL SIR SIN 2 20170520T035453 20170520T035459 C001 CS OFFL SIR SIN 2 20170520T035509 20170520T035514 C001 CS OFFL SIR SIN 2 20170520T035829 20170520T040024 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T052725\_20170520T052859\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T053407\_20170520T053413\_C001 CS OFFL SIR SIN 2 20170520T053742 20170520T053912 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T070740\_20170520T070857\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T071439\_20170520T071527\_C001 CS\_OFFL\_SIR\_SIN\_2\_20170520T071641\_20170520T071756\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T084657\_20170520T084822\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T085333\_20170520T085639\_C001 CS OFFL SIR SIN 2 20170520T102731 20170520T103025 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T103236\_20170520T103759\_C001 CS OFFL SIR SIN 2 20170520T112331 20170520T112753 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T120710\_20170520T120945\_C001 CS\_OFFL\_SIR\_SIN\_2\_20170520T121144\_20170520T121306\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T121647\_20170520T121825\_C001 CS\_OFFL\_SIR\_SIN\_2\_20170520T130227\_20170520T130339\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T130508\_20170520T130731\_C001 CS\_OFFL\_SIR\_SIN\_2\_20170520T134415\_20170520T134803\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T135548\_20170520T135734\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T144148\_20170520T144411\_C001 CS OFFL SIR SIN 2 20170520T144426 20170520T144611 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T152429\_20170520T152620\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T152836\_20170520T152843\_C001 CS OFFL SIR SIN 2 20170520T153442 20170520T153655 C001 CS OFFL SIR SIN 2 20170520T161526 20170520T161543 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T161644\_20170520T161713\_C001 CS OFFL SIR SIN 2 20170520T170405 20170520T170544 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T170702\_20170520T170830\_C001 CS OFFL SIR SIN 2 20170520T171250 20170520T171542 C001 CS OFFL SIR SIN 2 20170520T184400 20170520T184741 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170520T185322\_20170520T185437\_C001

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 (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error, Surface Model Unavailab SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error

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 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 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 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 An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220170520T193414_20170520T193505_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220170520T202328_20170520T202645_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T203158_20170520T203324_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T211419_20170520T211518_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T220041_20170520T220429_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T221104_20170520T221211_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T225003_20170520T225145_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T225324_20170520T225439_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T233847_20170520T234023_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170520T234808_20170520T234953_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode 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	139	139	139	0	0
SIR_LRM_2	139	139	139	0	0
SIR_LRMI2_	139	139	139	0	0
SIR_SAR_1B	104	104	104	0	0
SIR_SAR_2	104	104	104	0	0
SIR_SARI2_	104	104	104	0	0
SIR_SIN_1B	100	100	100	0	0
SIR_SIN_2	100	100	100	0	0
SIR_SINI2	100	100	100	0	0
SIR_GDR_2	14	14	14	0	0

### 6.1 QCC Errors

Number of products with QCC errors:

6.2 QCC Warnings	
Number of QCC reports with warnings	0

0

192

### 6.2 Missing QCC Reports

Number of products with missing QCC reports: