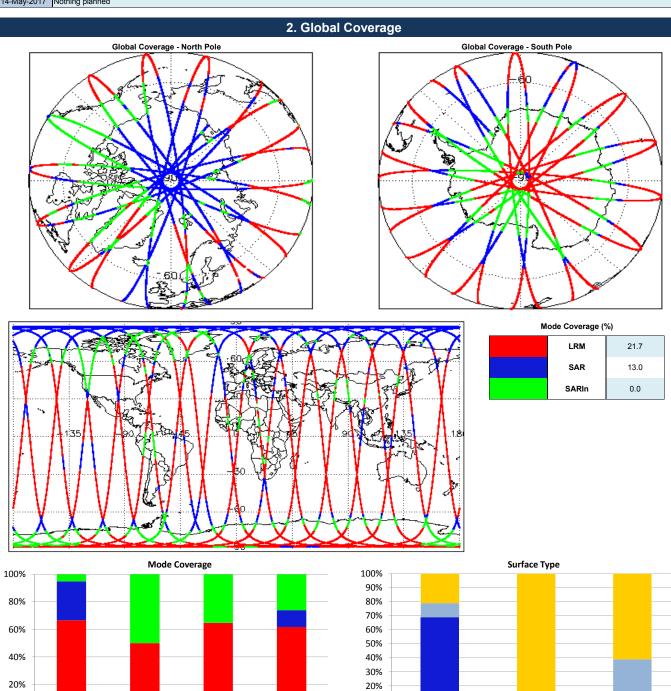


IDEAS+ Daily Report for OFFLINE data:

<u>13/05/2017</u>

Report Production Date:	13-Jun-2017	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used: L1	L1B and L2 OFFLINE Data	Product Format Check	Nominal
		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
lission / Instrument News			
12-May-2017 None			
13-May-2017 None			
14-May-2017 Nothing planned			



■ LRM ■ SAR ■ SARIN 3. In

CONTINENTAL_ICE

CLOSED_SEA

3. Instrument Configuration

LAND

10%

0%

LRM SAR SARIN LAND CONTINENTAL_ICE CLOSED_SEA OPEN_OCEAN

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

SIRAL instrument(s) in use: SIRAL - A

OPEN_OCEAN

0%

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

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: 1

Test Failed

Product

CS_OFFL_SIR_LRM_1B_20170513T014849_20170513T015306_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_220170513T000642_20170513T001908_C001		There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220170513T002029_20170513T003718_C001		There is a height and backscatter error for Retracker 2 for one or more records

CS OFFL SIR LRM 2 20170513T005858 20170513T011004 C001 CS OFFL SIR LRM 2 20170513T011207 20170513T012701 C001 CS_OFFL_SIR_LRM_2__20170513T014315_20170513T014751_C001 CS OFFL SIR LRM 2 20170513T020056 20170513T021332 C001 CS OFFL SIR LRM_2__20170513T025120_20170513T030611_C001 CS_OFFL_SIR_LRM_2__20170513T031422_20170513T031538_C001 CS_OFFL_SIR_LRM_2__20170513T032040_20170513T034658_C001 CS_OFFL_SIR_LRM_2__20170513T042027_20170513T044521_C001 CS OFFL SIR LRM 2 20170513T045320 20170513T045645 C001 CS_OFFL_SIR_LRM_2__20170513T051649_20170513T052643_C001 CS_OFFL_SIR_LRM_2__20170513T055742_20170513T062534_C001 CS_OFFL_SIR_LRM_2__20170513T063218_20170513T063548_C001 CS OFFL SIR LRM 2 20170513T063939 20170513T065033 C001 CS_OFFL_SIR_LRM_2__20170513T065302_20170513T071347_C001 CS_OFFL_SIR_LRM_2__20170513T072649_20170513T072813_C001 CS OFFL SIR LRM 2 20170513T080715 20170513T081240 C001 CS_OFFL_SIR_LRM_2__20170513T081907_20170513T084047_C001 CS_OFFL_SIR_LRM_2__20170513T084333_20170513T085215_C001 CS OFFL SIR LRM 2 20170513T090525 20170513T090828 C001 CS_OFFL_SIR_LRM_2__20170513T092445_20170513T094304_C001 CS_OFFL_SIR_LRM_2__20170513T094640_20170513T095138_C001 CS OFFL SIR LRM 2 20170513T095804 20170513T103042 C001 CS OFFL SIR LRM 2 20170513T105539 20170513T111915 C001 CS_OFFL_SIR_LRM_2__20170513T113754_20170513T114506_C001 CS_OFFL_SIR_LRM_2__20170513T114509_20170513T115507_C001 CS OFFL SIR LRM 2 20170513T115949 20170513T120933 C001 CS OFFL SIR LRM 2 20170513T122758 20170513T124346 C001 CS_OFFL_SIR_LRM_2__20170513T124601_20170513T130045_C001 CS_OFFL_SIR_LRM_2__20170513T131659_20170513T133136_C001 CS_OFFL_SIR_LRM_2_20170513T133336_20170513T135358_C001 CS_OFFL_SIR_LRM_2__20170513T141101_20170513T141850_C001 CS OFFL SIR LRM 2 20170513T141852 20170513T142146 C001 CS_OFFL_SIR_LRM_2__20170513T142758_20170513T144208_C001 CS_OFFL_SIR_LRM_2__20170513T145631_20170513T151333_C001 CS OFFL SIR LRM 2 20170513T151338 20170513T151903 C001 CS_OFFL_SIR_LRM_2__20170513T152603_20170513T153251_C001 CS_OFFL_SIR_LRM_2__20170513T154458_20170513T154512_C001 CS OFFL SIR LRM 2 20170513T155506 20170513T162118 C001 CS_OFFL_SIR_LRM_2__20170513T162720_20170513T163217_C001 CS_OFFL_SIR_LRM_2__20170513T163601_20170513T170057_C001 CS OFFL SIR LRM 2 20170513T173348 20170513T174341 C001 CS_OFFL_SIR_LRM_2__20170513T174920_20170513T180005_C001 CS OFFL SIR LRM 2 20170513T181429 20170513T184309 C001 CS_OFFL_SIR_LRM_2__20170513T185046_20170513T185227_C001 CS_OFFL_SIR_LRM_2__20170513T190535_20170513T193903_C001 CS_OFFL_SIR_LRM_2__20170513T202912_20170513T203255_C001

(Retracker 2)

Height 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 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), 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 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 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one 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CS_OFFL_SIR_LRM_2__20170513T204437_20170513T205351_C001 CS OFFL SIR LRM 2 20170513T205636 20170513T211839 C001 CS OFFL SIR LRM 2 20170513T213257 20170513T214511 C001 CS_OFFL_SIR_LRM_2_20170513T214659_20170513T215257_C001 CS_OFFL_SIR_LRM_2__20170513T215858_20170513T215932_C001 CS_OFFL_SIR_LRM_2__20170513T222344_20170513T225706_C001 CS_OFFL_SIR_LRM_2__20170513T231551_20170513T234703_C001 CS_OFFL_SIR_SIN_2__20170513T003719_20170513T004138_C001 CS OFFL SIR SIN 2 20170513T004223 20170513T004338 C001 CS_OFFL_SIR_SIN_2__20170513T012752_20170513T012935_C001 CS_OFFL_SIR_SIN_2__20170513T013501_20170513T013508_C001 CS OFFL SIR SIN 2 20170513T013627 20170513T013902 C001 CS_OFFL_SIR_SIN_2__20170513T014112_20170513T014243_C001 CS_OFFL_SIR_SIN_2__20170513T021807_20170513T022233_C001 CS OFFL SIR SIN 2 20170513T030716 20170513T030910 C001 CS_OFFL_SIR_SIN_2__20170513T031400_20170513T031406_C001 CS OFFL SIR SIN 2 20170513T031415 20170513T031421 C001 CS OFFL SIR SIN 2 20170513T031539 20170513T031906 C001 CS OFFL SIR SIN 2 20170513T044643 20170513T044908 C001 CS_OFFL_SIR_SIN_2__20170513T045258_20170513T045304_C001 CS_OFFL_SIR_SIN_2__20170513T045314_20170513T045319_C001 CS_OFFL_SIR_SIN_2__20170513T045646_20170513T045822_C001 CS OFFL SIR SIN 2 20170513T054638 20170513T054657 C001 CS_OFFL_SIR_SIN_2__20170513T062559_20170513T062722_C001 CS_OFFL_SIR_SIN_2__20170513T063212_20170513T063217_C001 CS_OFFL_SIR_SIN_2_20170513T063548_20170513T063722_C001 CS_OFFL_SIR_SIN_2__20170513T080551_20170513T080715_C001 CS OFFL SIR SIN 2 20170513T081241 20170513T081553 C001 CS OFFL SIR SIN 2 20170513T090400 20170513T090431 C001 CS OFFL SIR SIN 2 20170513T094526 20170513T094640 C001 CS OFFL SIR SIN 2 20170513T095139 20170513T095501 C001 CS_OFFL_SIR_SIN_2__20170513T112614_20170513T112850_C001 CS_OFFL_SIR_SIN_2__20170513T113044_20170513T113710_C001 CS OFFL SIR SIN 2 20170513T122129 20170513T122249 C001 CS OFFL SIR SIN 2 20170513T122543 20170513T122723 C001 CS_OFFL_SIR_SIN_2__20170513T130315_20170513T130743_C001 CS_OFFL_SIR_SIN_2_20170513T130956_20170513T131039_C001 CS_OFFL_SIR_SIN_2__20170513T131458_20170513T131632_C001 CS_OFFL_SIR_SIN_2__20170513T140046_20170513T140149_C001 CS OFFL SIR SIN 2 20170513T140227 20170513T140312 C001 CS_OFFL_SIR_SIN_2__20170513T144343_20170513T144535_C001 CS_OFFL_SIR_SIN_2__20170513T145359_20170513T145547_C001 CS OFFL SIR SIN 2 20170513T153959 20170513T154457 C001 CS OFFL SIR SIN 2 20170513T162316 20170513T162435 C001 CS_OFFL_SIR_SIN_2__20170513T162633_20170513T162719_C001 CS OFFL SIR SIN 2 20170513T163217 20170513T163442 C001 CS_OFFL_SIR_SIN_2__20170513T171258_20170513T171333_C001 CS OFFL SIR SIN 2 20170513T180240 20170513T180400 C001 CS OFFL SIR SIN 2 20170513T180436 20170513T180641 C001 CS_OFFL_SIR_SIN_2__20170513T181241_20170513T181411_C001

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

records

There is a height and backscatter error for Retracker 2 for one or more ecords 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 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 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 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 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 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 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 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

CS_OFFL_SIR_SIN_220170513T194230_20170513T194549_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T195113_20170513T195230_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T212123_20170513T212443_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T213005_20170513T213129_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T220814_20170513T220841_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_220170513T221051_20170513T221343_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T225753_20170513T225950_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T230827_20170513T231001_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T234728_20170513T234829_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170513T235143_20170513T235243_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	149	149	149	0	0
SIR_LRM_2	146	146	146	0	0
SIR_LRMI2_	146	146	146	0	0
SIR_SAR_1B	114	114	114	0	0
SIR_SAR_2	114	114	114	0	0
SIR_SARI2_	114	114	114	0	0
SIR_SIN_1B	101	101	101	0	0
SIR_SIN_2	101	101	101	0	0
SIR_SINI2	101	101	101	0	0
SIR_GDR_2	15	15	15	0	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 QCC Warnings	
Number of QCC reports with warnings	0

0

196

6.2 Missing QCC Reports

Number of products with missing QCC reports: