

IDEAS+ Daily Report for OFFLINE data:

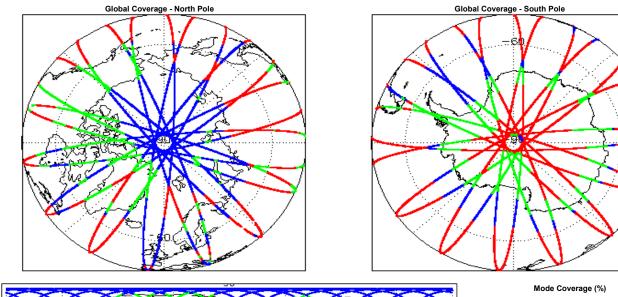
<u>14/04/2018</u>

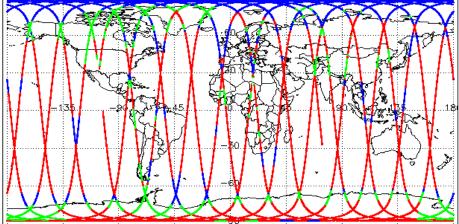
Report Production Date:	11-May-2018	Check	Status	
Report Froduction Date.	1 1-iviay-2016	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Usea:	CryoSal ice Processor	Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
	LIB and L2 OFFLINE Data	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				
13-Apr-2018 None				

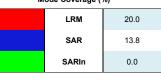
1. Overview

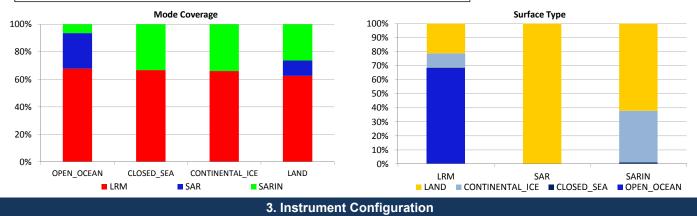
15-Apr-2018 Nothing planned	14-Apr-2018	None
13-Api-2010 Notining planned	15-Apr-2018	Nothing planned











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: 0

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

0

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:

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. Number of products with errors: 0

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:

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.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220180413T234922_20180414T001435_C001		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
	0	There is a height and backscatter error for Retracker 2 for one or more records
CS OFFE SIR LRM 2 201804141010322 201804141011435 C001	o	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220180414T012818_20180414T015710_C001
CS_OFFL_SIR_LRM_220180414T020444_20180414T020607_C001
CS_OFFL_SIR_LRM_220180414T021950_20180414T025339_C001
CS_OFFL_SIR_LRM_220180414T033714_20180414T033823_C001
CS_OFFL_SIR_LRM_220180414T034334_20180414T034659_C001
CS_OFFL_SIR_LRM_220180414T035914_20180414T040754_C001
CS_OFFL_SIR_LRM_220180414T041038_20180414T043303_C001
CS_OFFL_SIR_LRM_220180414T044610_20180414T050545_C001
CS_OFFL_SIR_LRM_220180414T053742_20180414T061113_C001
CS_OFFL_SIR_LRM_220180414T062955_20180414T070117_C001
CS_OFFL_SIR_LRM_220180414T072120_20180414T072832_C001
CS_OFFL_SIR_LRM_220180414T073313_20180414T073415_C001
CS_OFFL_SIR_LRM_220180414T073417_20180414T075049_C001
CS_OFFL_SIR_LRM_220180414T080801_20180414T082133_C001
CS_OFFL_SIR_LRM_220180414T082347_20180414T083558_C001
CS_OFFL_SIR_LRM_220180414T090311_20180414T091333_C001
CS_OFFL_SIR_LRM_220180414T091513_20180414T092943_C001
CS_OFFL_SIR_LRM_220180414T095045_20180414T095826_C001
CS_OFFL_SIR_LRM_220180414T100236_20180414T100725_C001
CS_OFFL_SIR_LRM_220180414T101008_20180414T101554_C001
CS_OFFL_SIR_LRM_220180414T104611_20180414T110906_C001
CS_OFFL_SIR_LRM_220180414T112237_20180414T114123_C001
CS_OFFL_SIR_LRM_220180414T121213_20180414T121300_C001
CS_OFFL_SIR_LRM_220180414T122304_20180414T124845_C001
CS_OFFL_SIR_LRM_220180414T125540_20180414T125907_C001
CS_OFFL_SIR_LRM_220180414T131913_20180414T133535_C001
CS_OFFL_SIR_LRM_220180414T135619_20180414T141804_C001
CS_OFFL_SIR_LRM_220180414T143015_20180414T143810_C001
CS_OFFL_SIR_LRM_220180414T144127_20180414T151523_C001
CS_OFFL_SIR_LRM_220180414T155049_20180414T160742_C001
CS_OFFL_SIR_LRM_220180414T162100_20180414T164313_C001
CS_OFFL_SIR_LRM_220180414T164557_20180414T165526_C001
CS_OFFL_SIR_LRM_220180414T170649_20180414T170946_C001
CS_OFFL_SIR_LRM_220180414T172555_20180414T173204_C001
CS_OFFL_SIR_LRM_220180414T173351_20180414T174616_C001
CS_OFFL_SIR_LRM_220180414T180056_20180414T183309_C001
CS_OFFL_SIR_LRM_220180414T184944_20180414T192141_C001
CS_OFFL_SIR_LRM_220180414T193112_20180414T193308_C001
CS_OFFL_SIR_LRM_220180414T193957_20180414T195534_C001
CS_OFFL_SIR_LRM_220180414T195737_20180414T200804_C001
CS_OFFL_SIR_LRM_220180414T203406_20180414T204612_C001
CS_OFFL_SIR_LRM_220180414T210944_20180414T211228_C001
CS_OFFL_SIR_LRM_220180414T213539_20180414T213823_C001
CS_0FFL_SIR_LRM_220180414T221230_20180414T221817_C001

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), Height Error (Retracker 3), 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), Height Error (Retracker 3), 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) 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), 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), Backscatter Error (Retracker 2) Surface Model Unavailable 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), 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), 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)

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 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 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 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 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 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 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 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 ecords 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 ecords 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 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 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 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 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

CS_OFFL_SIR_LRM_2__20180414T222101_20180414T224506_C001 CS OFFL SIR LRM 2 20180414T224739 20180414T225619 C001 CS OFFL SIR LRM 2 20180414T225847 20180414T232345 C001 CS OFFL SIR LRM 2 20180414T233352 20180414T233434 C001 CS_OFFL_SIR_SIN_2__20180414T002711_20180414T002741_C001 CS OFFL SIR SIN 2 20180414T011641 20180414T011801 C001 CS OFFL SIR SIN 2 20180414T011849 20180414T012045 C001 CS_OFFL_SIR_SIN_2__20180414T012648_20180414T012818_C001 CS_OFFL_SIR_SIN_2_20180414T025629_20180414T025953_C001 CS_OFFL_SIR_SIN_2__20180414T030519_20180414T030637_C001 CS_OFFL_SIR_SIN_2__20180414T043530_20180414T043851_C001 CS OFFL SIR SIN 2 20180414T044410 20180414T044533 C001 CS OFFL SIR SIN 2 20180414T052506 20180414T052744 C001 CS_OFFL_SIR_SIN_2__20180414T061209_20180414T061407_C001 CS OFFL SIR SIN 2 20180414T062249 20180414T062416 C001 CS_OFFL_SIR_SIN_2__20180414T070136_20180414T070240_C001 CS_OFFL_SIR_SIN_2__20180414T070542_20180414T070645_C001 CS OFFL SIR SIN 2 20180414T075100 20180414T075237 C001 CS_OFFL_SIR_SIN_2__20180414T075824_20180414T075828_C001 CS OFFL SIR SIN 2 20180414T080004 20180414T080206 C001 CS_OFFL_SIR_SIN_2__20180414T084344_20180414T084559_C001 CS_OFFL_SIR_SIN_2__20180414T093014_20180414T093201_C001 CS OFFL SIR SIN 2 20180414T093722 20180414T093727 C001 CS_OFFL_SIR_SIN_2__20180414T093843_20180414T094537_C001 CS_OFFL_SIR_SIN_2__20180414T110919_20180414T111233_C001 CS_OFFL_SIR_SIN_2__20180414T111620_20180414T111626_C001 CS_OFFL_SIR_SIN_2__20180414T111635_20180414T111641_C001 CS_OFFL_SIR_SIN_2__20180414T111928_20180414T112140_C001 CS OFFL SIR SIN 2 20180414T124845 20180414T125015 C001 CS_OFFL_SIR_SIN_2__20180414T125534_20180414T125540_C001 CS OFFL SIR SIN 2 20180414T125907 20180414T130030 C001 CS OFFL SIR SIN 2 20180414T134731 20180414T134806 C001 CS_OFFL_SIR_SIN_2__20180414T142850_20180414T143015_C001 CS OFFL SIR SIN 2 20180414T143810 20180414T143923 C001 CS_OFFL_SIR_SIN_2__20180414T160820_20180414T160946_C001 CS_OFFL_SIR_SIN_2__20180414T161500_20180414T161802_C001 CS OFFL SIR SIN 2 20180414T174825 20180414T175130 C001 CS OFFL SIR SIN 2 20180414T175401 20180414T175914 C001 CS_OFFL_SIR_SIN_2__20180414T184501_20180414T184853_C001 CS OFFL SIR SIN 2 20180414T192838 20180414T193112 C001 CS_OFFL_SIR_SIN_2__20180414T193308_20180414T193504_C001 CS_OFFL_SIR_SIN_2__20180414T193813_20180414T193937_C001 CS OFFL SIR SIN 2 20180414T202347 20180414T202503 C001 CS_OFFL_SIR_SIN_2__20180414T202708_20180414T202951_C001 CS OFFL SIR SIN 2 20180414T210336 20180414T210944 C001 CS OFFL SIR SIN 2 20180414T211228 20180414T211244 C001 CS OFFL SIR SIN 2 20180414T211713 20180414T211855 C001 CS_OFFL_SIR_SIN_2__20180414T220314_20180414T220530_C001 CS_OFFL_SIR_SIN_2__20180414T220618_20180414T220846_C001 CS_OFFL_SIR_SIN_2__20180414T224556_20180414T224739_C001 CS OFFL SIR SIN 2 20180414T225620 20180414T225800 C001

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)
SARIn X-track Angle Error, Surface Model Unavailable
SARIn X-track Angle Error
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SARIn X-track Angle Error
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SARIn X-track Angle Error
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Model Unavailable SARIn X-track Angle Error
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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 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 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 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 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 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

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	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	141	141	141	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	106	106	106	0	0
SIR_SIN_2	106	106	106	0	0
SIR_SINI2	106	106	106	0	0
SIR_GDR_2	14	14	14	0	0
CC Errors					
CC Errors	errors: (

6.2 QCC Warnings			
Number of QCC reports with warnings	0		
6.2 Missing QCC Reports			
Number of products with missing QCC reports:	188		