

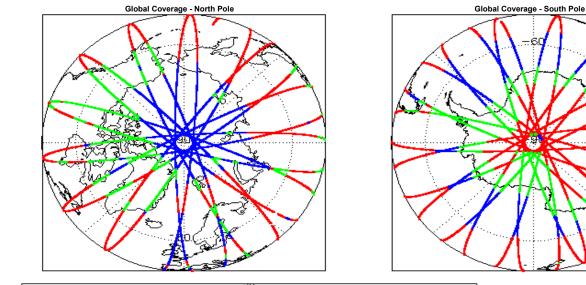
IDEAS+ Daily Report for OFFLINE data:

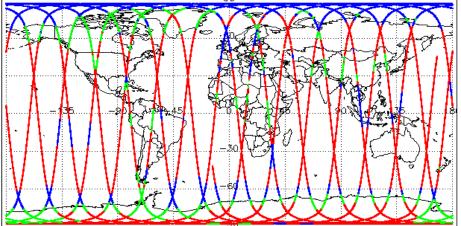
<u>10/08/2018</u>

eport Production Date:	07-Sep-2018	Check	Status
Report Production Date.		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:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Used:		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

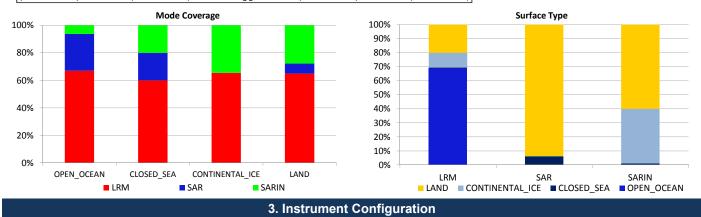
10-Aug-2018None11-Aug-2018Nothing planned







Mode Coverage (%)					
	LRM	19.9			
	SAR	13.8			
	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: 0

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: 2

Product Test Failed Description CS_OFFL_SIR_LRM_1B_20180810T031045_20180810T031850_C001 Echo error, TRK echo error The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo CS_OFFL_SIR_LRM_1B_20180810T042802_20180810T043729_C001 Echo error, TRK echo error 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: 0

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.

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:

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 OFFE SIR LRM 2 201808091235328 201808101002832 C001		There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220180810T004749_20180810T011923_C001
CS_OFFL_SIR_LRM_220180810T013144_20180810T014628_C001
CS_OFFL_SIR_LRM_220180810T015109_20180810T015206_C001
CS_OFFL_SIR_LRM_2_20180810T015211_20180810T020802_C001
CS_OFFL_SIR_LRM_220180810T022541_20180810T023927_C001
CS_OFFL_SIR_LRM_220180810T024141_20180810T025757_C001
CS_OFFL_SIR_LRM_220180810T032110_20180810T033129_C001
CS_OFFL_SIR_LRM_220180810T040718_20180810T041732_C001
CS_OFFL_SIR_LRM_220180810T041958_20180810T042518_C001
CS_OFFL_SIR_LRM_220180810T042802_20180810T043729_C001
CS_OFFL_SIR_LRM_220180810T043803_20180810T043809_C001
CS_OFFL_SIR_LRM_220180810T050407_20180810T052458_C001
CS_OFFL_SIR_LRM_220180810T054138_20180810T060629_C001
CS_OFFL_SIR_LRM_220180810T063022_20180810T063055_C001
CS_OFFL_SIR_LRM_220180810T064128_20180810T070448_C001
CS_OFFL_SIR_LRM_220180810T071335_20180810T071702_C001
CS_OFFL_SIR_LRM_220180810T072054_20180810T073130_C001
CS_OFFL_SIR_LRM_220180810T073708_20180810T075351_C001
CS_OFFL_SIR_LRM_220180810T080633_20180810T081340_C001
CS_OFFL_SIR_LRM_220180810T082220_20180810T083456_C001
CS_OFFL_SIR_LRM_220180810T084814_20180810T085401_C001
CS_OFFL_SIR_LRM_220180810T090152_20180810T093333_C001
CS_OFFL_SIR_LRM_220180810T093656_20180810T093713_C001
CS_OFFL_SIR_LRM_220180810T094525_20180810T094600_C001
CS_OFFL_SIR_LRM_220180810T094608_20180810T094741_C001
CS_OFFL_SIR_LRM_220180810T100903_20180810T102203_C001
CS_OFFL_SIR_LRM_220180810T103958_20180810T110106_C001
CS_0FFL_SIR_LRM_2_20180810T110350_20180810T111524_C001
CS_OFFL_SIR_LRM_2_20180810T112443_20180810T112712_C001
CS_OFFL_SIR_LRM_2_20180810T114343_20180810T120156_C001
CS_OFFL_SIR_LRM_220180810T120936_20180810T121156_C001
CS_OFFL_SIR_LRM_220180810T121934_20180810T125532_C001
CS_OFFL_SIR_LRM_220180810T130711_20180810T132645_C001
CS_OFFL_SIR_LRM_220180810T132707_20180810T134003_C001
CS_OFFL_SIR_LRM_220180810T134907_20180810T135103_C001
CS_OFFL_SIR_LRM_220180810T135832_20180810T141327_C001
CS_OFFL_SIR_LRM_220180810T141530_20180810T142454_C001
CS_OFFL_SIR_LRM_220180810T144721_20180810T150408_C001
CS_OFFL_SIR_LRM_220180810T152733_20180810T153025_C001
CS_OFFL_SIR_LRM_220180810T162638_20180810T162900_C001
CS_OFFL_SIR_LRM_220180810T163858_20180810T170151_C001
CS_OFFL_SIR_LRM_220180810T170538_20180810T171409_C001
CS_OFFL_SIR_LRM_220180810T171735_20180810T174203_C001
CS_OFFL_SIR_LRM_220180810T175146_20180810T175217_C001
CS_OFFL_SIR_LRM_220180810T181411_20180810T182534_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), 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), Height Error (Retracker 3), 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), 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), 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) 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), 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), 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) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)

Height Error (Retracker 2), Backscatter

Height Error (Retracker 2), Backscatter

records

Error (Retracker 2)

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 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 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 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 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 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 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 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 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 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 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 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 records

CS_OFFL_SIR_LRM_220180810T185703_20180810T192300_C001
CS_OFFL_SIR_LRM_220180810T192819_20180810T193453_C001
CS_OFFL_SIR_LRM_220180810T194828_20180810T200402_C001
CS_OFFL_SIR_LRM_220180810T200933_20180810T201844_C001
CS_OFFL_SIR_LRM_220180810T211147_20180810T211329_C001
CS_OFFL_SIR_LRM_220180810T212550_20180810T215853_C001
CS_OFFL_SIR_LRM_220180810T221656_20180810T223235_C001
CS_OFFL_SIR_LRM_220180810T225052_20180810T225227_C001
CS_OFFL_SIR_LRM_220180810T230246_20180810T233309_C001
CS_OFFL_SIR_LRM_220180810T234613_20180810T235026_C001
CS_OFFL_SIR_SIN_220180810T002953_20180810T003149_C001
CS_OFFL_SIR_SIN_220180810T004027_20180810T004200_C001
CS_OFFL_SIR_SIN_220180810T011923_20180810T012024_C001
CS_OFFL_SIR_SIN_220180810T012337_20180810T012423_C001
CS_OFFL_SIR_SIN_220180810T020857_20180810T021036_C001
CS_OFFL_SIR_SIN_220180810T021618_20180810T021623_C001
CS_OFFL_SIR_SIN_220180810T021755_20180810T022002_C001
CS_OFFL_SIR_SIN_2_20180810T030137_20180810T030207_C001
CS_0FFL_SIR_SIN_2_20180810T034810_20180810T034956_C001
CS_OFFL_SIR_SIN_220180810T035516_20180810T035522_C001
CS_0FFL_SIR_SIN_2_20180810T035532_20180810T035536_C001
CS_OFFL_SIR_SIN_220180810T035639_20180810T040333_C001
CS_OFFL_SIR_SIN_220180810T052724_20180810T053032_C001
CS_OFFL_SIR_SIN_220180810T053414_20180810T053420_C001
CS_OFFL_SIR_SIN_220180810T053430_20180810T053435_C001
CS_OFFL_SIR_SIN_220180810T053734_20180810T053938_C001 CS_OFFL_SIR_SIN_220180810T070637_20180810T070814_C001
CS_OFFL_SIR_SIN_22018081010701328_2018081010701334_C001
CS_OFFL_SIR_SIN_2201808101071702_201808101071827_C001
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CS_OFFL_SIR_SIN_220180810T085402_20180810T085415_C001
CS_OFFL_SIR_SIN_220180810T085603_20180810T085717_C001
CS_OFFL_SIR_SIN_220180810T102616_20180810T102742_C001
CS_OFFL_SIR_SIN_220180810T103254_20180810T103557_C001
CS_OFFL_SIR_SIN_220180810T120634_20180810T120935_C001
CS_OFFL_SIR_SIN_220180810T121156_20180810T121712_C001
CS_OFFL_SIR_SIN_220180810T130252_20180810T130620_C001
CS_OFFL_SIR_SIN_220180810T130625_20180810T130659_C001
CS_OFFL_SIR_SIN_220180810T134632_20180810T134907_C001
CS_OFFL_SIR_SIN_220180810T135104_20180810T135244_C001
CS_OFFL_SIR_SIN_220180810T135607_20180810T135737_C001
CS_OFFL_SIR_SIN_220180810T144142_20180810T144257_C001
CS_OFFL_SIR_SIN_220180810T144446_20180810T144720_C001
CS_OFFL_SIR_SIN_220180810T152133_20180810T152732_C001
CS_OFFL_SIR_SIN_220180810T153026_20180810T153036_C001
CS_OFFL_SIR_SIN_220180810T153508_20180810T153651_C001
CS_OFFL_SIR_SIN_220180810T162106_20180810T162155_C001
CS_OFFL_SIR_SIN_220180810T162159_20180810T162326_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)
Height Error (Retracker 2), Backscatter
Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)
Surface Model Unavailable
SARIn X-track Angle Error
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SARIn X-track Angle Error SARIn X-track Angle Error, Surface
Model Unavailable
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SARIn X-track Angle 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 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 No DEM or Slope Model was used for the location of 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 fo	
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	An ambiguous angle was detected for SARIn mode for one or more records
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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	142	142	142	0	0
SIR_LRM_2	142	142	142	0	0
SIR_LRMI2_	142	142	142	0	0
SIR_SAR_1B	93	93	93	0	0
SIR_SAR_2	93	93	93	0	0
SIR_SARI2_	93	93	93	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_SIN_2	109	109	109	0	0
SIR_SINI2	109	109	109	0	0
SIR_GDR_2	14	14	14	0	0

6.1 QCC Errors			
Number of products with QCC errors:	0		
6.2 QCC Warnings			
Number of QCC reports with warnings	0		
6.2 Missing QCC Reports			

Number of products with missing QCC reports: 182