

IDEAS+ Daily Report for OFFLINE data:

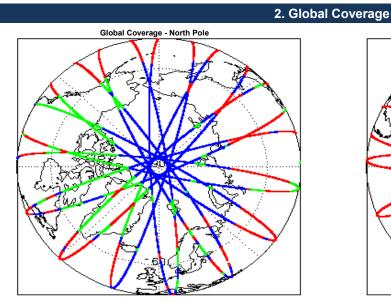
<u>17/03/2018</u>

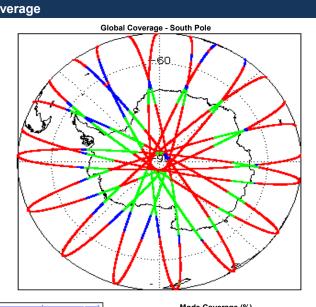


Report Production Date:	13-Apr-2018	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
		Product Header Analysis	See Section 4.2
•		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

1. Overview

Mission / Instrument News		
16-Mar-2018	SIRAL unavailability on 16-Mar-2018 from 05:15:01 to 07:01:45 due to a planned orbit manoeuvre.	
17-Mar-2018	None	
18-Mar-2018	Nothing planned	

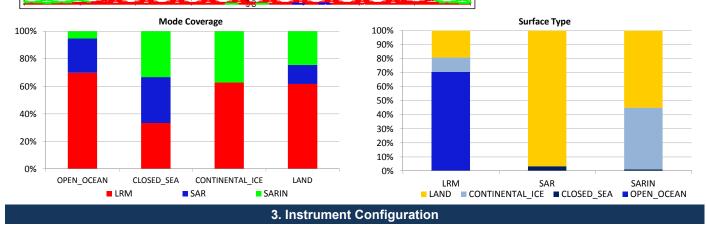




Mode Coverage (%)		
	LRM	19.8
	SAR	12.8

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: 1 Product Test Failed CS_OFFL_SIR_SAR_1B_20180317T204614_20180317T204614_C001 Percentage of processing errors detected greater than minimum acceptable threshold. 4.3 Star Tracker Usage Check Image: Comparison of the compa

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:

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:

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.

Number of products with errors: 109

Product	Test Failed	Description
CS OFFE SIR LRM 2 201803161234849 201803171001023 C001		There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220180317T001240_20180317T002121_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_2__20180317T002324_20180317T004845_C001 CS_OFFL_SIR_LRM_2_20180317T012040_20180317T014930_C001 CS OFFL SIR LRM 2 20180317T020215 20180317T023238 C001 CS OFFL SIR LRM 2 20180317T025600 20180317T031109 C001 CS_OFFL_SIR_LRM_2__20180317T031642_20180317T032838_C001 CS OFFL SIR LRM 2 20180317T035131 20180317T035823 C001 CS OFFL SIR LRM 2 20180317T043247 20180317T050744 C001 CS_OFFL_SIR_LRM_2__20180317T052359_20180317T053934_C001 CS OFFL SIR LRM 2 20180317T055545 20180317T055640 C001 CS OFFL SIR LRM 2 20180317T061214 20180317T062121 C001 CS OFFL SIR LRM 2 20180317T062407 20180317T063959 C001 CS_OFFL_SIR_LRM_2__20180317T065933_20180317T072144_C001 CS OFFL SIR LRM 2 20180317T072222 20180317T072658 C001 CS_OFFL_SIR_LRM_2__20180317T072751_20180317T073603_C001 CS_OFFL_SIR_LRM_2__20180317T075328_20180317T082519_C001 CS_OFFL_SIR_LRM_2__20180317T083230_20180317T083450_C001 CS OFFL SIR LRM 2 20180317T084317 20180317T085546 C001 CS_OFFL_SIR_LRM_2__20180317T085650_20180317T090956_C001 CS_OFFL_SIR_LRM_2__20180317T093525_20180317T094641_C001 CS_OFFL_SIR_LRM_2__20180317T094845_20180317T100426_C001 CS_OFFL_SIR_LRM_2__20180317T102000_20180317T103232_C001 CS_OFFL_SIR_LRM_2__20180317T103713_20180317T104858_C001 CS_OFFL_SIR_LRM_2__20180317T112805_20180317T114326_C001 CS OFFL SIR LRM 2 20180317T115100 20180317T115214 C001 CS_OFFL_SIR_LRM_2__20180317T115616_20180317T122344_C001 CS_OFFL_SIR_LRM_2__20180317T125721_20180317T132304_C001 CS OFFL SIR LRM 2 20180317T132958 20180317T133324 C001 CS_OFFL_SIR_LRM_2__20180317T133549_20180317T134757_C001 CS_OFFL_SIR_LRM_2__20180317T135327_20180317T140355_C001 CS OFFL SIR LRM 2 20180317T143602 20180317T150231 C001 CS_OFFL_SIR_LRM_2__20180317T150856_20180317T151225_C001 CS OFFL SIR LRM 2 20180317T153241 20180317T155030 C001 CS_OFFL_SIR_LRM_2__20180317T160334_20180317T160450_C001 CS OFFL SIR LRM 2 20180317T164352 20180317T164919 C001 CS_OFFL_SIR_LRM_2__20180317T165423_20180317T171810_C001 CS_OFFL_SIR_LRM_2__20180317T172010_20180317T172851_C001 CS OFFL SIR LRM 2 20180317T174210 20180317T174439 C001 CS_OFFL_SIR_LRM_2__20180317T180124_20180317T182108_C001 CS_OFFL_SIR_LRM_2__20180317T182315_20180317T182816_C001 CS OFFL SIR LRM 2 20180317T183330 20180317T190722 C001 CS OFFL SIR LRM 2 20180317T193300 20180317T195553 C001 CS_OFFL_SIR_LRM_2__20180317T200529_20180317T200721_C001 CS_OFFL_SIR_LRM_2__20180317T201402_20180317T202128_C001 CS_OFFL_SIR_LRM_2__20180317T202131_20180317T203004_C001 CS_OFFL_SIR_LRM_2__20180317T203007_20180317T203144_C001

CS_OFFL_SIR_LRM_2__20180317T203626_20180317T204439_C001

(Retracker 2)

Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords 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) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error

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There is a height and backscatter error for Retracker 2 and a height error

for Retracker 3 for one or more records

CS_OFFL_SIR_LRM_2__20180317T210415_20180317T212026_C001 CS OFFL SIR LRM 2 20180317T212239 20180317T213713 C001 CS OFFL SIR LRM 2 20180317T215311 20180317T220848 C001 CS OFFL SIR LRM 2 20180317T221049 20180317T221108 C001 CS_OFFL_SIR_LRM_2__20180317T221111_20180317T222011_C001 CS OFFL SIR LRM 2 20180317T224829 20180317T225802 C001 CS_OFFL_SIR_LRM_2__20180317T232218_20180317T233036_C001 CS OFFL SIR LRM 2 20180317T233232 20180317T234934 C001 CS_OFFL_SIR_LRM_2__20180317T235207_20180317T235418_C001 CS_OFFL_SIR_SIN_2__20180317T001058_20180317T001239_C001 CS_OFFL_SIR_SIN_2__20180317T002121_20180317T002306_C001 CS_OFFL_SIR_SIN_2__20180317T010744_20180317T011227_C001 CS OFFL SIR SIN 2 20180317T015035 20180317T015207 C001 CS_OFFL_SIR_SIN_2__20180317T015340_20180317T015454_C001 CS_OFFL_SIR_SIN_2__20180317T015916_20180317T020156_C001 CS OFFL SIR SIN 2 20180317T033018 20180317T033407 C001 CS_OFFL_SIR_SIN_2__20180317T033955_20180317T034115_C001 CS_OFFL_SIR_SIN_2__20180317T042054_20180317T042137_C001 CS OFFL SIR SIN 2 20180317T050958 20180317T051312 C001 CS_OFFL_SIR_SIN_2__20180317T051826_20180317T051943_C001 CS_OFFL_SIR_SIN_2__20180317T064715_20180317T065131_C001 CS OFFL SIR SIN 2 20180317T065731 20180317T065845 C001 CS_OFFL_SIR_SIN_2__20180317T073647_20180317T073921_C001 CS_OFFL_SIR_SIN_2__20180317T073945_20180317T074108_C001 CS OFFL SIR SIN 2 20180317T082523 20180317T082646 C001 CS_OFFL_SIR_SIN_2__20180317T083450_20180317T083636_C001 CS OFFL SIR SIN 2 20180317T091345 20180317T091802 C001 CS_OFFL_SIR_SIN_2__20180317T091910_20180317T092016_C001 CS_OFFL_SIR_SIN_2__20180317T100430_20180317T100613_C001 CS OFFL SIR SIN 2 20180317T101140 20180317T101146 C001 CS_OFFL_SIR_SIN_2__20180317T101306_20180317T101538_C001 CS_OFFL_SIR_SIN_2__20180317T105346_20180317T105914_C001 CS OFFL SIR SIN 2 20180317T114329 20180317T114543 C001 CS_OFFL_SIR_SIN_2__20180317T115039_20180317T115044_C001 CS_OFFL_SIR_SIN_2__20180317T115053_20180317T115100_C001 CS OFFL SIR SIN 2 20180317T115215 20180317T115547 C001 CS_OFFL_SIR_SIN_2__20180317T124242_20180317T124320_C001 CS_OFFL_SIR_SIN_2__20180317T132325_20180317T132552_C001 CS OFFL SIR SIN 2 20180317T132936 20180317T132942 C001 CS_OFFL_SIR_SIN_2__20180317T132952_20180317T132958_C001 CS OFFL SIR SIN 2 20180317T133324 20180317T133506 C001 CS_OFFL_SIR_SIN_2__20180317T142310_20180317T142332_C001 CS_OFFL_SIR_SIN_2__20180317T150232_20180317T150355_C001 CS OFFL SIR SIN 2 20180317T150849 20180317T150856 C001 CS_OFFL_SIR_SIN_2__20180317T151226_20180317T151407_C001 CS_OFFL_SIR_SIN_2__20180317T164230_20180317T164352_C001 CS OFFL SIR SIN 2 20180317T164920 20180317T165233 C001 CS_OFFL_SIR_SIN_2__20180317T174037_20180317T174146_C001 CS_OFFL_SIR_SIN_2__20180317T182201_20180317T182315_C001 CS OFFL SIR SIN 2 20180317T182817 20180317T183136 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), 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 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 Aodel Unavailable 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, Surface Model Unavailable 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, 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

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CS_OFFL_SIR_SIN_220180317T200252_20180317T200528_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T200721_20180317T201347_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T205809_20180317T205929_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T210214_20180317T210327_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T214633_20180317T214721_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T215135_20180317T215310_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T223723_20180317T223828_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T223912_20180317T224003_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T224152_20180317T224357_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T232021_20180317T232217_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180317T233037_20180317T233224_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	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	163	163	163	0	0
SIR_LRM_2	163	163	163	0	0
SIR_LRMI2_	163	163	163	0	0
SIR_SAR_1B	131	131	131	0	0
SIR_SAR_2	130	130	130	0	0
SIR_SARI2_	130	130	130	0	0
SIR_SIN_1B	97	97	97	0	0
SIR_SIN_2	97	97	97	0	0
SIR_SINI2	97	97	97	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

6.2 Missing QCC Reports

Number of products with missing QCC reports: 201