

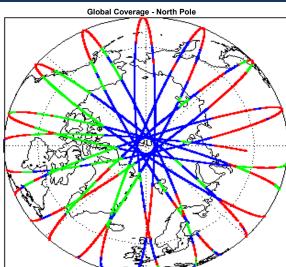
IDEAS+ Daily Report for OFFLINE data:

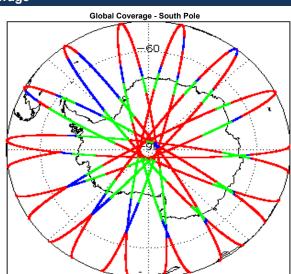
<u>04/04/2016</u>

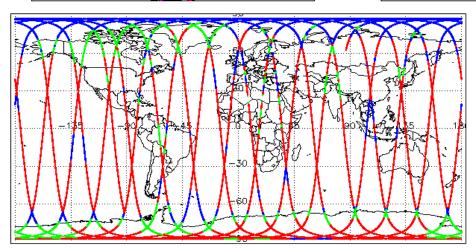
1. Overview			
Depart Draduction Deter	04-May-2016	Check	Status
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE 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

Mission / Instrument News		
03-Apr-2016	None	
04-Apr-2016	None	
05-Apr-2016	SIRAL unavailability on 05-April-2016 from 22:11:20 to 06-April 2016 11:32:22 due to a collision avoidance manoeuvre.	



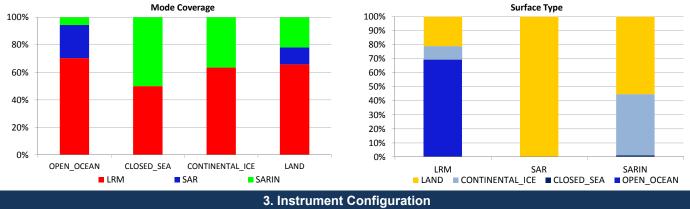






Mode Coverage (%	6)
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LRM	19.0
SAR	12.5
SARIn	0.0



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:

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

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

Number of products with errors

Product

CS_OFFL_SIR_LRM_1B_20160404T133945_20160404T134934_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_220160403T235850_20160404T002748_C001	(Retracker 3) Backscatter Error	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_220160404T005946_20160404T012523_C001
CS_OFFL_SIR_LRM_220160404T013214_20160404T013540_C001
CS_OFFL_SIR_LRM_220160404T013847_20160404T015008_C001
CS_OFFL_SIR_LRM_220160404T015546_20160404T021146_C001
CS_OFFL_SIR_LRM_220160404T024215_20160404T024328_C001
CS_OFFL_SIR_LRM_220160404T024331_20160404T025532_C001
CS_OFFL_SIR_LRM_220160404T030645_20160404T031445_C001
CS_OFFL_SIR_LRM_220160404T031759_20160404T035154_C001
CS_OFFL_SIR_LRM_220160404T040516_20160404T040617_C001
CS_OFFL_SIR_LRM_220160404T042704_20160404T044411_C001
CS_OFFL_SIR_LRM_220160404T045735_20160404T051945_C001
CS_OFFL_SIR_LRM_220160404T052230_20160404T053157_C001
CS_OFFL_SIR_LRM_220160404T053323_20160404T053407_C001
CS_OFFL_SIR_LRM_220160404T054323_20160404T054805_C001
CS_OFFL_SIR_LRM_220160404T055318_20160404T055458_C001
CS_OFFL_SIR_LRM_220160404T055530_20160404T060837_C001
CS_OFFL_SIR_LRM_220160404T061025_20160404T062258_C001
CS_OFFL_SIR_LRM_220160404T063724_20160404T071000_C001
CS_OFFL_SIR_LRM_220160404T072636_20160404T073334_C001
CS_OFFL_SIR_LRM_220160404T073353_20160404T075809_C001
CS_OFFL_SIR_LRM_220160404T080746_20160404T080941_C001
CS_OFFL_SIR_LRM_220160404T081631_20160404T084510_C001
CS_OFFL_SIR_LRM_220160404T091034_20160404T092245_C001
CS_OFFL_SIR_LRM_220160404T092904_20160404T093432_C001
CS_OFFL_SIR_LRM_220160404T093806_20160404T094009_C001
CS_OFFL_SIR_LRM_220160404T094623_20160404T094900_C001
CS_OFFL_SIR_LRM_220160404T101212_20160404T101454_C001
CS_OFFL_SIR_LRM_220160404T104900_20160404T105450_C001
CS_OFFL_SIR_LRM_220160404T105733_20160404T112136_C001
CS_OFFL_SIR_LRM_220160404T112410_20160404T113258_C001
CS_OFFL_SIR_LRM_220160404T113519_20160404T115911_C001
CS_OFFL_SIR_LRM_220160404T122608_20160404T130026_C001
CS_OFFL_SIR_LRM_220160404T131420_20160404T133941_C001
CS_OFFL_SIR_LRM_220160404T140741_20160404T142239_C001
CS_OFFL_SIR_LRM_220160404T142814_20160404T143942_C001
CS_OFFL_SIR_LRM_220160404T150143_20160404T151133_C001
CS_OFFL_SIR_LRM_220160404T152105_20160404T152206_C001
CS_OFFL_SIR_LRM_220160404T153033_20160404T153123_C001
CS_OFFL_SIR_LRM_220160404T154409_20160404T161835_C001
CS_OFFL_SIR_LRM_220160404T163150_20160404T163445_C001
CS_OFFL_SIR_LRM_220160404T163646_20160404T165550_C001
CS_OFFL_SIR_LRM_220160404T170714_20160404T171008_C001
CS_OFFL_SIR_LRM_220160404T172356_20160404T173249_C001
CS_OFFL_SIR_LRM_220160404T173535_20160404T175724_C001
CS_OFFL_SIR_LRM_220160404T181112_20160404T183828_C001
CS_OFFL_SIR_LRM_220160404T184232_20160404T184659_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) 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), 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) 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) 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), 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), 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), 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), 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 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 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 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 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 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 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 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 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 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 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

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

CS_OFFL_SIR_LRM_220160404T190429_20160404T193630_C001
CS_OFFL_SIR_LRM_220160404T194403_20160404T194629_C001
CS_OFFL_SIR_LRM_220160404T195448_20160404T200716_C001
CS_OFFL_SIR_LRM_220160404T200802_20160404T202500_C001
CS_OFFL_SIR_LRM_220160404T204641_20160404T205809_C001
CS_OFFL_SIR_LRM_220160404T210013_20160404T211547_C001
CS_OFFL_SIR_LRM_220160404T213140_20160404T214402_C001
CS_OFFL_SIR_LRM_220160404T214842_20160404T220027_C001
CS_OFFL_SIR_LRM_220160404T223935_20160404T225438_C001
CS_OFFL_SIR_LRM_220160404T230808_20160404T233512_C001
CS_OFFL_SIR_SIN_220160404T012523_20160404T012644_C001
CS_OFFL_SIR_SIN_220160404T013540_20160404T013701_C001
CS_OFFL_SIR_SIN_220160404T022405_20160404T022441_C001
CS_OFFL_SIR_SIN_220160404T030520_20160404T030645_C001
CS_OFFL_SIR_SIN_220160404T031446_20160404T031558_C001
CS_OFFL_SIR_SIN_2_20160404T044453_20160404T044618_C001
CS_OFFL_SIR_SIN_220160404T045134_20160404T045438_C001
CS_OFFL_SIR_SIN_220160404T062445_20160404T062753_C001
CS_OFFL_SIR_SIN_220160404T063035_20160404T063420_C001
CS_0FFL_SIR_SIN_220160404T063428_20160404T063534_C001
CS_OFFL_SIR_SIN_220160404T072137_20160404T072517_C001
CS_OFFL_SIR_SIN_220160404T080512_20160404T080746_C001
CS_OFFL_SIR_SIN_220160404T080942_20160404T081151_C001
CS_OFFL_SIR_SIN_220160404T081443_20160404T081608_C001
CS_OFFL_SIR_SIN_220160404T090019_20160404T090136_C001
CS_OFFL_SIR_SIN_220160404T090525_20160404T090650_C001
CS_OFFL_SIR_SIN_220160404T094009_20160404T094623_C001
CS_OFFL_SIR_SIN_220160404T094900_20160404T094919_C001
CS_OFFL_SIR_SIN_220160404T095347_20160404T095528_C001
CS_OFFL_SIR_SIN_220160404T103951_20160404T104202_C001
CS_OFFL_SIR_SIN_220160404T104256_20160404T104524_C001
CS_OFFL_SIR_SIN_220160404T112232_20160404T112410_C001
CS_OFFL_SIR_SIN_220160404T113258_20160404T113456_C001
CS_OFFL_SIR_SIN_220160404T121908_20160404T122352_C001
CS_OFFL_SIR_SIN_220160404T130209_20160404T130339_C001
CS_OFFL_SIR_SIN_220160404T130516_20160404T130626_C001
CS_OFFL_SIR_SIN_220160404T131049_20160404T131324_C001
CS_OFFL_SIR_SIN_220160404T144149_20160404T144540_C001
CS_OFFL_SIR_SIN_220160404T145128_20160404T145252_C001
CS_OFFL_SIR_SIN_220160404T153214_20160404T153306_C001
CS_OFFL_SIR_SIN_220160404T162131_20160404T162445_C001
CS_OFFL_SIR_SIN_220160404T162959_20160404T163114_C001
CS_OFFL_SIR_SIN_220160404T175849_20160404T180312_C001
CS_OFFL_SIR_SIN_220160404T180903_20160404T181020_C001
CS_OFFL_SIR_SIN_220160404T184820_20160404T185103_C001
CS_OFFL_SIR_SIN_220160404T185110_20160404T185236_C001
CS OFFL SIR SIN 2 20160404T194629 20160404T194816 C001
CS_OFFL_SIR_SIN_220160404T202508_20160404T202644_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
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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
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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 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
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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
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An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
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An ambiguous angle was detected for SARIn mode for one or more
records

CS_OFFL_SIR_SIN_220160404T202658_20160404T202910_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T203040_20160404T203142_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T211602_20160404T211744_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T212313_20160404T212320_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T212440_20160404T212709_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T220833_20160404T221043_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_220160404T225452_20160404T225710_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T230211_20160404T230217_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T230346_20160404T230724_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160404T235414_20160404T235449_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