

IDEAS+ Daily Report for OFFLINE data:

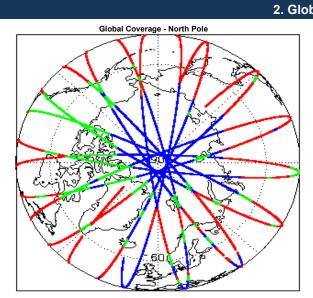
<u>15/08/2016</u>

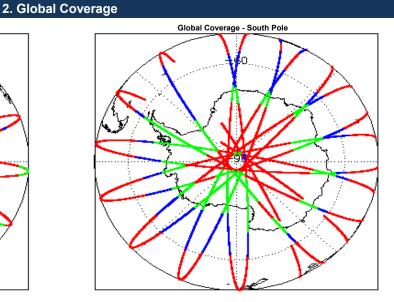


Report Production Date:	14 Son 2016	Check	Status
Report Production Date.	14-Sep-2016	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Oseu.		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

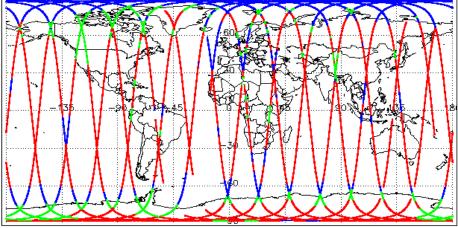
1. Overview

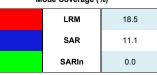
Mission / Instrument News		
14-Aug-2016	None	
15-Aug-2016	SAR and SARIn data missing on 15-Aug-2016 from 11:56:35 to 14:56:15 due to an unplanned ground segment anomaly	
16-Aug-2016	Nothing planned	

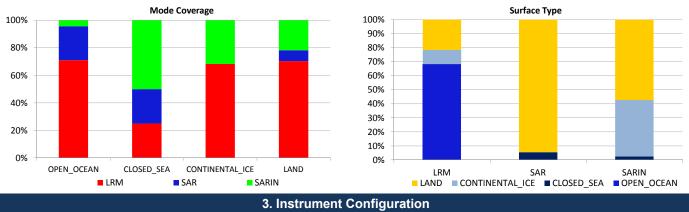




Mode Coverage (%)







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

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_20160815T053600_20160815T060939_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_20160815T184835_20160815T192146_C002 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.

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
CS_OFFL_SIR_LRM_220160814T235227_20160815T002402_C001
CS_OFFL_SIR_LRM_220160815T003642_20160815T004342_C001
CS_OFFL_SIR_LRM_220160815T004406_20160815T010801_C001
CS_OFFL_SIR_LRM_220160815T011735_20160815T011928_C001
CS_OFFL_SIR_LRM_220160815T012705_20160815T014349_C001
CS_OFFL_SIR_LRM_220160815T014753_20160815T015523_C001
CS_OFFL_SIR_LRM_220160815T021655_20160815T023234_C001
CS_OFFL_SIR_LRM_220160815T023853_20160815T024909_C001
CS_OFFL_SIR_LRM_220160815T025620_20160815T025843_C001
CS_OFFL_SIR_LRM_220160815T030625_20160815T032017_C001
CS_OFFL_SIR_LRM_220160815T032157_20160815T033257_C001
CS_OFFL_SIR_LRM_220160815T035529_20160815T035727_C001
CS_OFFL_SIR_LRM_220160815T035850_20160815T040600_C001
CS_OFFL_SIR_LRM_220160815T040723_20160815T041211_C001
CS_OFFL_SIR_LRM_220160815T041451_20160815T043006_C001
CS_OFFL_SIR_LRM_220160815T043406_20160815T044246_C001
CS_OFFL_SIR_LRM_220160815T044608_20160815T050842_C001
CS_OFFL_SIR_LRM_220160815T053600_20160815T060939_C001
CS_OFFL_SIR_LRM_220160815T061611_20160815T062041_C001
CS_OFFL_SIR_LRM_220160815T062539_20160815T065318_C001
CS_OFFL_SIR_LRM_220160815T065424_20160815T070058_C001
CS_OFFL_SIR_LRM_220160815T070135_20160815T070307_C001
CS_OFFL_SIR_LRM_220160815T071937_20160815T073229_C001
CS_OFFL_SIR_LRM_220160815T080431_20160815T082348_C002
CS_OFFL_SIR_LRM_220160815T082413_20160815T082951_C002
CS_OFFL_SIR_LRM_220160815T084019_20160815T084152_C002
CS_OFFL_SIR_LRM_220160815T085346_20160815T092713_C002
CS_OFFL_SIR_LRM_220160815T095055_20160815T095832_C002
CS_OFFL_SIR_LRM_220160815T101715_20160815T102130_C002
CS_OFFL_SIR_LRM_220160815T102954_20160815T103039_C002
CS_OFFL_SIR_LRM_220160815T103133_20160815T104237_C002
CS_OFFL_SIR_LRM_220160815T104523_20160815T110631_C002
CS_OFFL_SIR_LRM_220160815T112358_20160815T113353_C002
CS_OFFL_SIR_LRM_220160815T113541_20160815T114815_C002
CS_OFFL_SIR_LRM_220160815T121022_20160815T124524_C001
CS_OFFL_SIR_LRM_220160815T130433_20160815T133440_C001
CS_OFFL_SIR_LRM_220160815T134840_20160815T135510_C001
CS_OFFL_SIR_LRM_220160815T135533_20160815T140754_C001
CS_OFFL_SIR_LRM_220160815T140959_20160815T142448_C001
CS_OFFL_SIR_LRM_220160815T144156_20160815T145208_C001
CS_OFFL_SIR_LRM_220160815T145827_20160815T151432_C001
CS_OFFL_SIR_LRM_220160815T154535_20160815T154755_C001
CS_OFFL_SIR_LRM_220160815T154957_20160815T160321_C001
CS_OFFL_SIR_LRM_220160815T161939_20160815T164105_C001
CS_OFFL_SIR_LRM_220160815T164107_20160815T165504_C001
CS_OFFL_SIR_LRM_220160815T171955_20160815T174203_C001
CS_OFFL_SIR_LRM_220160815T175811_20160815T182344_C001

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CS_OFFL_SIR_LRM_2__20160815T182355_20160815T182541_C001 CS OFFL SIR LRM 2 20160815T184835 20160815T192146 C002 CS_OFFL_SIR_LRM_2_20160815T193019_20160815T193346_C002 CS OFFL SIR LRM 2 20160815T195355 20160815T201126 C002 CS_OFFL_SIR_LRM_2_20160815T202314_20160815T203028_C001 CS_OFFL_SIR_LRM_2__20160815T203501_20160815T204403_C001 CS_OFFL_SIR_LRM_2__20160815T211817_20160815T215047_C001 CS OFFL SIR LRM 2 20160815T220251 20160815T220447 C001 CS OFFL SIR LRM 2 20160815T220921 20160815T221037 C001 CS OFFL SIR LRM 2 20160815T221504 20160815T221647 C001 CS_OFFL_SIR_LRM_2__20160815T221830_20160815T223906_C001 CS_OFFL_SIR_LRM_2__20160815T224430_20160815T224938_C001 CS_OFFL_SIR_LRM_2__20160815T225639_20160815T233207_C001 CS OFFL SIR LRM 2 20160815T234155 20160815T234358 C001 CS_OFFL_SIR_LRM_2__20160815T235415_20160816T001709_C001 CS OFFL SIR SIN 2 20160815T011501 20160815T011735 C001 CS_OFFL_SIR_SIN_2__20160815T011928_20160815T012214_C001 CS_OFFL_SIR_SIN_2__20160815T012405_20160815T012552_C001 CS OFFL SIR SIN 2 20160815T021006 20160815T021127 C001 CS_OFFL_SIR_SIN_2__20160815T021544_20160815T021654_C001 CS_OFFL_SIR_SIN_2__20160815T025032_20160815T025619_C001 CS OFFL SIR SIN 2 20160815T025843 20160815T025913 C001 CS OFFL SIR SIN 2 20160815T030336 20160815T030515 C001 CS OFFL SIR SIN 2 20160815T034432 20160815T034531 C001 CS OFFL SIR SIN 2 20160815T034936 20160815T035147 C001 CS_OFFL_SIR_SIN_2__20160815T043225_20160815T043405_C001 CS OFFL SIR SIN 2 20160815T044247 20160815T044452 C001 CS OFFL SIR SIN 2 20160815T052848 20160815T053056 C001 CS_OFFL_SIR_SIN_2__20160815T061159_20160815T061324_C001 CS_OFFL_SIR_SIN_2_20160815T061510_20160815T061611_C001 CS_OFFL_SIR_SIN_2__20160815T062041_20160815T062301_C001 CS_OFFL_SIR_SIN_2__20160815T075133_20160815T075527_C001 CS OFFL SIR SIN 2 20160815T080118 20160815T080244 C001 CS_OFFL_SIR_SIN_2__20160815T084230_20160815T084256_C001 CS_OFFL_SIR_SIN_2__20160815T093121_20160815T093433_C001 CS OFFL SIR SIN 2 20160815T093949 20160815T094059 C001 CS OFFL SIR SIN 2 20160815T110901 20160815T111314 C001 CS_OFFL_SIR_SIN_2__20160815T111849_20160815T112014_C001 CS_OFFL_SIR_SIN_2__20160815T151822_20160815T152035_C001 CS_OFFL_SIR_SIN_2__20160815T160446_20160815T160642_C001 CS OFFL SIR SIN 2 20160815T161200 20160815T161206 C001 CS_OFFL_SIR_SIN_2__20160815T161216_20160815T161222_C001 CS_OFFL_SIR_SIN_2__20160815T161329_20160815T161806_C001 CS_OFFL_SIR_SIN_2__20160815T170416_20160815T170449_C001 CS_OFFL_SIR_SIN_2__20160815T174457_20160815T174727_C001 CS_OFFL_SIR_SIN_2__20160815T175058_20160815T175104_C001 CS OFFL SIR SIN 2 20160815T175448 20160815T175631 C001 CS_OFFL_SIR_SIN_2__20160815T192339_20160815T192509_C001 CS_OFFL_SIR_SIN_2__20160815T193346_20160815T193521_C001 CS_OFFL_SIR_SIN_2_20160815T202227_20160815T202253_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) Surface Model Unavailable 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 Patrankar 🤈 SARIn X-track Angle Error ARIn 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, 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 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

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 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 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 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 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 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 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

CS_OFFL_SIR_SIN_2_20160815T210354_20160815T210508_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one records	e or more
CS_OFFL_SIR_SIN_2_20160815T211043_20160815T211401_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one records	e or more
CS_OFFL_SIR_SIN_2_20160815T220154_20160815T220218_C001 SARIn X-track Angle Error, Surface Model Unavailable An ambiguous angle was detected for SARIn mode and no Model was used for one or more records	DEM or Slope
CS_OFFL_SIR_SIN_2_20160815T220226_20160815T220251_C001 SARIn X-track Angle Error, Surface Model Unavailable An ambiguous angle was detected for SARIn mode and no Model was used for one or more records	DEM or Slope
CS_OFFL_SIR_SIN_2_20160815T224309_20160815T224429_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one records	e or more
CS_OFFL_SIR_SIN_2_20160815T224938_20160815T225248_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one records	e or more