

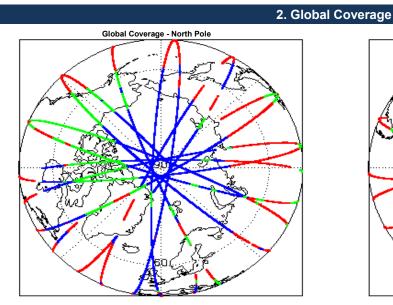
IDEAS+ Daily Report for OFFLINE data:

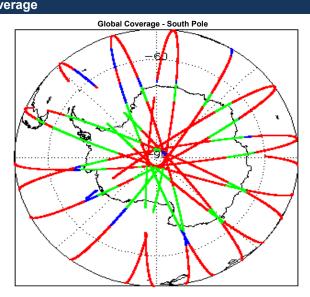
<u>22/03/2016</u>

IDEAS+

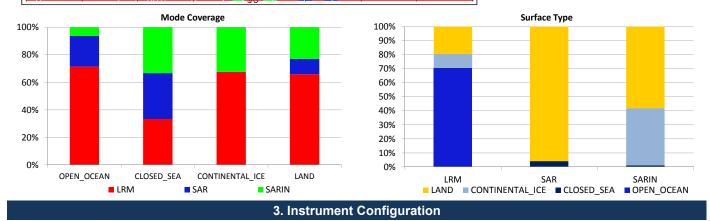
1. Overview					
	20-Apr-2016	Check Status			
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal		
		Product Software Check	Nominal		
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	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		

Mission / Instrument News		
21-Mar-2016	None	
22-Mar-2016	6 SIRAL unavailability on 22-Mar-2016 from 03:27:23 to 05:16:50 due to a planned orbit manoeuvre.	
23-Mar-2016	Nothing planned	





Mode Coverage (%)				
	LRM	17.9		
	SAR	12.4		
	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: 1					
Product	Test Failed				
CS_OFFL_SIR_SAR_1B_20160322T032025_20160322T032027_C001	Percentage of processing errors detected greater than minimum acceptable threshold.				

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: 0

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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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20160322T124026_20160322T130626_C001		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.

Number of products with errors:

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.

Product	Test Failed Height Error (Retracker 2), Backscatter	Description There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160322T002712_20160322T005131_C001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220160322T010422_20160322T013329_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T020419_20160322T023050_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T030116_20160322T031828_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T052545_20160322T055014_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T060215_20160322T063655_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T070132_20160322T072423_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T073351_20160322T073600_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160322T074300_20160322T081227_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T083159_20160322T085019_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T085114_20160322T090442_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T091310_20160322T091509_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160322T092151_20160322T093732_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T093934_20160322T094856_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T101640_20160322T102813_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T110102_20160322T111636_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T115432_20160322T122720_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T122945_20160322T123200_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160322T123210_20160322T123806_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160322T124026_20160322T130626_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T133823_20160322T134853_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T141912_20160322T144913_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T151203_20160322T152806_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T152913_20160322T154527_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T163545_20160322T163703_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T165022_20160322T172449_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T173707_20160322T180529_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T182855_20160322T190235_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T191016_20160322T191428_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160322T191631_20160322T194459_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T194523_20160322T195248_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T202425_20160322T204211_C002	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T205633_20160322T205652_C002	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T210021_20160322T211245_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T211452_20160322T212702_C002	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T215415_20160322T220346_C002	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T220548_20160322T222125_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T223612_20160322T223824_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T225412_20160322T225843_C001	Height Error (Retracker 2), Height Error (Retracker 3), 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
CS_OFFL_SIR_LRM_220160322T225958_20160322T230710_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160322T234343_20160323T000032_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_SIN_220160322T005209_20160322T005442_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160322T005818_20160322T005824_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160322T005834_20160322T005839_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160322T010156_20160322T010350_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_2__20160322T023051_20160322T023224_C001 CS OFFL SIR SIN 2 20160322T055658 20160322T060005 C001 CS_OFFL_SIR_SIN_2__20160322T073059_20160322T073351_C001 CS_OFFL_SIR_SIN_2__20160322T073600_20160322T074124_C001 CS OFFL SIR SIN 2 20160322T091035 20160322T091310 C001 CS_OFFL_SIR_SIN_2__20160322T091509_20160322T091629_C001 CS OFFL SIR SIN 2 20160322T092012 20160322T092151 C001 CS OFFL SIR SIN 2 20160322T100552 20160322T100703 C001 CS_OFFL_SIR_SIN_2__20160322T100830_20160322T101052_C001 CS OFFL SIR SIN 2 20160322T104743 20160322T105126 C001 CS OFFL SIR SIN 2 20160322T105913 20160322T110059 C001 CS_OFFL_SIR_SIN_2__20160322T114512_20160322T114735_C001 CS OFFL SIR SIN 2 20160322T114748 20160322T114935 C001 CS_OFFL_SIR_SIN_2__20160322T122754_20160322T122945_C001 CS_OFFL_SIR_SIN_2__20160322T123200_20160322T123210_C001 CS OFFL SIR SIN 2 20160322T123806 20160322T124022 C001 CS_OFFL_SIR_SIN_2__20160322T132007_20160322T132037_C001 CS_OFFL_SIR_SIN_2__20160322T140730_20160322T140908_C001 CS_OFFL_SIR_SIN_2_20160322T141026_20160322T141155_C001 CS_OFFL_SIR_SIN_2__20160322T141616_20160322T141842_C001 CS_OFFL_SIR_SIN_2__20160322T154726_20160322T155106_C001 CS OFFL SIR SIN 2 20160322T155646 20160322T155801 C001 CS_OFFL_SIR_SIN_2__20160322T163741_20160322T163828_C001 CS OFFL SIR SIN 2 20160322T172652 20160322T173010 C001 CS OFFL SIR SIN 2 20160322T173523 20160322T173648 C001 CS OFFL SIR SIN 2 20160322T181742 20160322T181844 C001 CS_OFFL_SIR_SIN_2__20160322T190405_20160322T190750_C001 CS_OFFL_SIR_SIN_2__20160322T191428_20160322T191536_C001 CS_OFFL_SIR_SIN_2__20160322T204211_20160322T204348_C001 CS OFFL SIR SIN 2 20160322T205132 20160322T205318 C001 CS_OFFL_SIR_SIN_2__20160322T222128_20160322T222313_C001 CS_OFFL_SIR_SIN_2__20160322T222837_20160322T222843_C001 CS OFFL SIR SIN 2 20160322T223000 20160322T223612 C001 CS_OFFL_SIR_SIN_2__20160322T231151_20160322T231601_C001

An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records SARIn X-track Angle Error. Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records 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