

IDEAS+ Daily Report for OFFLINE data:

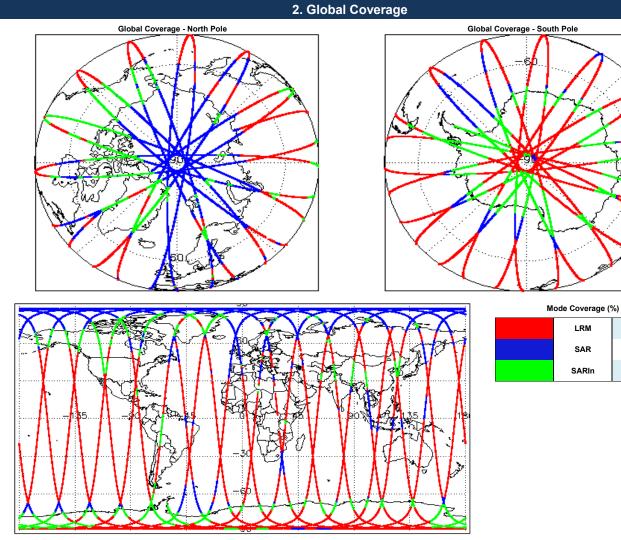
<u>22/02/2016</u>

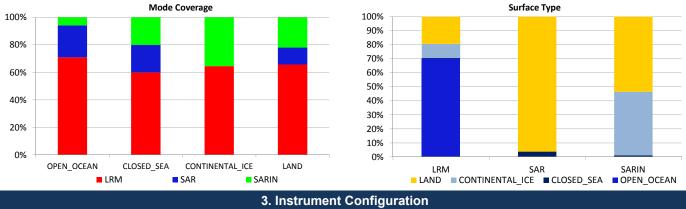
18.5

12.3

0.0

		1. Overview		
Report Production Date:	23-Mar-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	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	
lission / Instrument News				
21-Feb-2016 None				
22-Feb-2016 None				
23-Feb-2016 Nothing planned				





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

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

0

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:

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.

94

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	Description
CS_OFFL_SIR_LRM_220160222T000509_20160222T002039_C001	o	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160222T002219_20160222T003656_C001	0	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160222T005128_20160222T011429_C001	0	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160222T011551_20160222T012418_C001	o	There is a height and backscatter error for Retracker 2 for one or more records

CS OFFL SIR LRM 2 20160222T015325 20160222T021645 C001 CS_OFFL_SIR_LRM_2__20160222T022926_20160222T025831_C001 CS OFFL SIR LRM 2 20160222T032927 20160222T035553 C001 CS OFFL SIR LRM 2 20160222T040907 20160222T044330 C001 CS_OFFL_SIR_LRM_2__20160222T050633_20160222T051746_C001 CS OFFL SIR LRM 2 20160222T052916 20160222T053540 C001 CS OFFL SIR LRM 2 20160222T054830 20160222T062216 C001 CS OFFL SIR LRM 2 20160222T065050 20160222T071524 C001 CS OFFL SIR LRM 2 20160222T072717 20160222T080220 C001 CS OFFL SIR LRM 2 20160222T082638 20160222T084926 C001 CS_OFFL_SIR_LRM_2__20160222T085220_20160222T085411_C001 CS_OFFL_SIR_LRM_2__20160222T085853_20160222T090102_C001 CS OFFL SIR LRM 2 20160222T090755 20160222T093738 C001 CS_OFFL_SIR_LRM_2__20160222T095701_20160222T101527_C001 CS_OFFL_SIR_LRM_2__20160222T101618_20160222T102943_C001 CS OFFL SIR LRM 2 20160222T103813 20160222T104011 C001 CS_OFFL_SIR_LRM_2__20160222T104652_20160222T110235_C001 CS_OFFL_SIR_LRM_2__20160222T110437_20160222T111400_C001 CS_OFFL_SIR_LRM_2__20160222T114157_20160222T115319_C001 CS OFFL SIR LRM 2 20160222T122606 20160222T124138 C001 CS OFFL SIR LRM 2 20160222T131938 20160222T135222 C001 CS_OFFL_SIR_LRM_2__20160222T135447_20160222T135702_C001 CS_OFFL_SIR_LRM_2__20160222T135711_20160222T140308_C001 CS_OFFL_SIR_LRM_2__20160222T140522_20160222T142507_C001 CS_OFFL_SIR_LRM_2__20160222T142521_20160222T143133_C001 CS OFFL SIR LRM 2 20160222T144035 20160222T144135 C001 CS_OFFL_SIR_LRM_2__20160222T150240_20160222T153106_C001 CS_OFFL_SIR_LRM_2__20160222T154409_20160222T161418_C001 CS_OFFL_SIR_LRM_2__20160222T163711_20160222T171012_C001 CS_OFFL_SIR_LRM_2__20160222T180051_20160222T180205_C001 CS_OFFL_SIR_LRM_2__20160222T181526_20160222T184954_C001 CS OFFL SIR LRM 2 20160222T190208 20160222T193034 C001 CS OFFL SIR LRM 2 20160222T195358 20160222T202745 C001 CS OFFL SIR LRM 2 20160222T203518 20160222T203930 C001 CS_OFFL_SIR_LRM_2__20160222T204127_20160222T211003_C001 CS OFFL SIR LRM 2 20160222T211026 20160222T211756 C001 CS OFFL SIR LRM 2 20160222T213544 20160222T214450 C001 CS_OFFL_SIR_LRM_2__20160222T214930_20160222T215109_C001 CS OFFL SIR LRM 2 20160222T215135 20160222T220715 C001 CS_OFFL_SIR_LRM_2__20160222T222525_20160222T223747_C001 CS_OFFL_SIR_LRM_2__20160222T231921_20160222T232851_C001 CS_OFFL_SIR_LRM_2__20160222T233053_20160222T234620_C001 CS_OFFL_SIR_SIN_2__20160222T003717_20160222T003903_C001 CS_OFFL_SIR_SIN_2__20160222T004422_20160222T004428_C001 CS OFFL SIR SIN 2 20160222T004438 20160222T004444 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), 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) 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), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable 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), 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), 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), 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) SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error 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 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 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 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 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 ecords 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 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 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 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 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 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 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

CS_OFFL_SIR_SIN_2__20160222T004548_20160222T005040_C001 CS OFFL SIR SIN 2 20160222T021712 20160222T021944 C001 CS_OFFL_SIR_SIN_2__20160222T022320_20160222T022326_C001 CS_OFFL_SIR_SIN_2__20160222T022656_20160222T022851_C001 CS OFFL SIR SIN 2 20160222T035553 20160222T035726 C001 CS_OFFL_SIR_SIN_2__20160222T040234_20160222T040240_C001 CS OFFL SIR SIN 2 20160222T040608 20160222T040738 C001 CS OFFL SIR SIN 2 20160222T053608 20160222T053725 C001 CS_OFFL_SIR_SIN_2__20160222T054306_20160222T054354_C001 CS OFFL SIR SIN 2 20160222T054508 20160222T054623 C001 CS OFFL SIR SIN 2 20160222T071525 20160222T071650 C001 CS_OFFL_SIR_SIN_2__20160222T072200_20160222T072506_C001 CS OFFL SIR SIN 2 20160222T085559 20160222T085852 C001 CS_OFFL_SIR_SIN_2__20160222T090103_20160222T090625_C001 CS_OFFL_SIR_SIN_2__20160222T095201_20160222T095623_C001 CS OFFL SIR SIN 2 20160222T103538 20160222T103813 C001 CS_OFFL_SIR_SIN_2__20160222T104011_20160222T104133_C001 CS_OFFL_SIR_SIN_2__20160222T104514_20160222T104652_C001 CS_OFFL_SIR_SIN_2_20160222T113057_20160222T113209_C001 CS_OFFL_SIR_SIN_2__20160222T113338_20160222T113601_C001 CS_OFFL_SIR_SIN_2__20160222T121244_20160222T121629_C001 CS OFFL SIR SIN 2 20160222T122415 20160222T122600 C001 CS_OFFL_SIR_SIN_2__20160222T131018_20160222T131241_C001 CS OFFL SIR SIN 2 20160222T131256 20160222T131441 C001 CS OFFL SIR SIN 2 20160222T135257 20160222T135447 C001 CS OFFL SIR SIN 2 20160222T135703 20160222T135711 C001 CS_OFFL_SIR_SIN_2__20160222T140309_20160222T140522_C001 CS_OFFL_SIR_SIN_2__20160222T144356_20160222T144412_C001 CS_OFFL_SIR_SIN_2__20160222T144513_20160222T144543_C001 CS OFFL SIR SIN 2 20160222T153232 20160222T153411 C001 CS_OFFL_SIR_SIN_2__20160222T153529_20160222T153658_C001 CS_OFFL_SIR_SIN_2__20160222T154117_20160222T154409_C001 CS OFFL SIR SIN 2 20160222T171228_20160222T171608_C001 CS_OFFL_SIR_SIN_2__20160222T172149_20160222T172303_C001 CS OFFL SIR SIN 2 20160222T185155 20160222T185512 C001 CS OFFL SIR SIN 2 20160222T190025 20160222T190150 C001 CS OFFL SIR SIN 2 20160222T202909 20160222T203255 C001 CS OFFL SIR SIN 2 20160222T203931 20160222T204038 C001 CS OFFL SIR SIN 2 20160222T211832 20160222T212013 C001 CS_OFFL_SIR_SIN_2__20160222T212154_20160222T212308_C001 CS_OFFL_SIR_SIN_2__20160222T220715_20160222T220851_C001 CS OFFL SIR SIN 2 20160222T221635 20160222T221820 C001 CS_OFFL_SIR_SIN_2__20160222T234631_20160222T234816_C001 CS OFFL SIR SIN 2 20160222T235339 20160222T235345 C001 CS_OFFL_SIR_SIN_2__20160222T235502_20160223T000114_C001 SARIn X-track Angle Error SARIn X-track Angle Error, Surface model Unavailable SARIn X-track Angle Error, Surface model Unavailabl 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, Surface model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error

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 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 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 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 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 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