

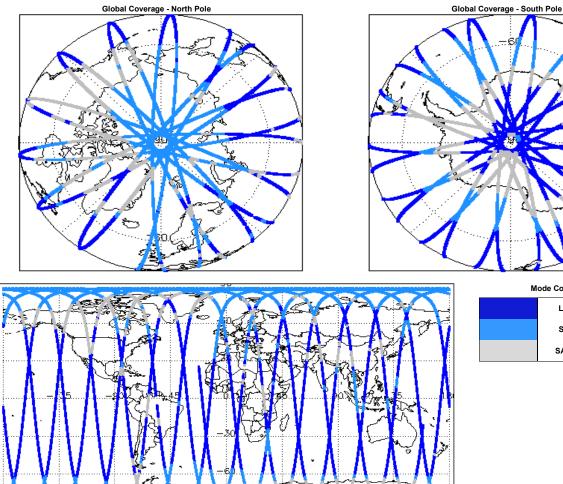
IDEAS+ Daily Report for OFFLINE data:

<u>24/12/2015</u>

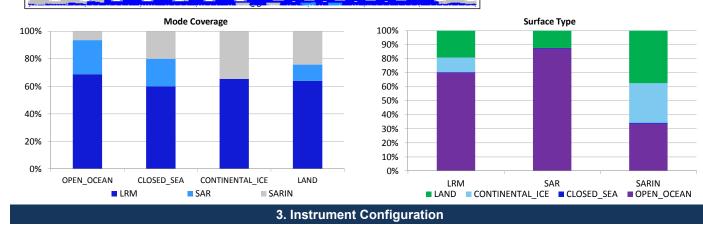
Report Production Date:	25-Jan-2016	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Used:		Product 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

2. Global Coverage

23-Dec-2015	None
24-Dec-2015	None
25-Dec-2015	Nothing planned



LRM	67.4	
SAR	19.5	
SARIn	13.2	



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:

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_20151224T020703_20151224T021655_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 2 201512231233719 201512241001041 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 OFFE SIR FRM 2 201512241002920 201512241010017 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_2__20151224T011908_20151224T012801_C001 CS_OFFL_SIR_LRM_2__20151224T013012_20151224T015010_C001 CS OFFL SIR LRM 2 20151224T020703 20151224T021655 C001 CS OFFL SIR LRM 2 20151224T022315 20151224T023540 C001 CS_OFFL_SIR_LRM_2__20151224T023600_20151224T023648_C001 CS_OFFL_SIR_LRM_2__20151224T030123_20151224T031301_C001 CS_OFFL_SIR_LRM_2__20151224T031441_20151224T032851_C001 CS_OFFL_SIR_LRM_2__20151224T034821_20151224T040030_C001 CS OFFL SIR LRM 2 20151224T040033 20151224T040651 C001 CS_OFFL_SIR_LRM_2__20151224T040935_20151224T041612_C001 CS_OFFL_SIR_LRM_2__20151224T041946_20151224T041948_C001 CS OFFL SIR LRM 2 20151224T044531 20151224T050809 C001 CS OFFL SIR LRM 2 20151224T052229 20151224T055047 C001 CS_OFFL_SIR_LRM_2__20151224T062200_20151224T064721_C001 CS OFFL SIR LRM 2 20151224T070245 20151224T073537 C001 CS_OFFL_SIR_LRM_2__20151224T080311_20151224T080503_C001 CS OFFL SIR LRM 2 20151224T082138 20151224T082607 C001 CS OFFL SIR LRM 2 20151224T084207 20151224T091449 C001 CS OFFL SIR LRM 2 20151224T094535 20151224T100426 C001 CS OFFL SIR LRM 2 20151224T102050 20151224T105452 C001 CS_OFFL_SIR_LRM_2__20151224T111858_20151224T114332_C001 CS_OFFL_SIR_LRM_2_20151224T115113_20151224T115328_C001 CS_OFFL_SIR_LRM_2__20151224T120033_20151224T123304_C001 CS_OFFL_SIR_LRM_2__20151224T130840_20151224T132151_C001 CS OFFL SIR LRM 2 20151224T133039 20151224T133236 C001 CS_OFFL_SIR_LRM_2__20151224T133941_20151224T135459_C001 CS_OFFL_SIR_LRM_2__20151224T135701_20151224T140622_C001 CS OFFL SIR LRM 2 20151224T142836 20151224T143133 C001 CS OFFL SIR LRM 2 20151224T143211 20151224T144540 C001 CS OFFL SIR LRM 2 20151224T150900 20151224T151200 C001 CS_OFFL_SIR_LRM_2__20151224T161202_20151224T161907_C001 CS OFFL SIR LRM 2 20151224T162030 20151224T164408 C001 CS_OFFL_SIR_LRM_2__20151224T164711_20151224T165537_C001 CS OFFL SIR LRM 2 20151224T165837 20151224T171740 C001 CS OFFL SIR LRM 2 20151224T175710 20151224T182225 C001 CS OFFL SIR LRM 2 20151224T183735 20151224T190437 C001 CS OFFL SIR LRM 2 20151224T192945 20151224T200121 C001 CS_OFFL_SIR_LRM_2__20151224T201715_20151224T202158_C001 CS OFFL SIR LRM 2 20151224T205316 20151224T205425 C001 CS_OFFL_SIR_LRM_2__20151224T210733_20151224T214106_C001 CS_OFFL_SIR_LRM_2__20151224T215728_20151224T222305_C001 CS_OFFL_SIR_LRM_2__20151224T222422_20151224T222445_C001 CS_OFFL_SIR_LRM_2_20151224T224559_20151224T231453_C001 CS_OFFL_SIR_LRM_2__20151224T231502_20151224T231957_C001 CS OFFL SIR LRM 2 20151224T232744 20151224T233158 C001 CS_OFFL_SIR_LRM_2__20151224T233638_20151225T001017_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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 3) 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), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), 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), 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) 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) 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 (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)

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 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 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 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 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 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 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 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 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 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 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 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 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

CS_OFFL_SIR_SIN_2__20151224T001125_20151224T001316_C001 CS_OFFL_SIR_SIN_2_20151224T002149_20151224T002325_C001 CS_OFFL_SIR_SIN_2__20151224T010035_20151224T010149_C001 CS_OFFL_SIR_SIN_2__20151224T010511_20151224T010609_C001 CS OFFL SIR SIN 2 20151224T015030 20151224T015210 C001 CS OFFL SIR SIN 2 20151224T015750 20151224T015755 C001 CS OFFL SIR SIN 2 20151224T015925 20151224T020135 C001 CS OFFL SIR SIN 2 20151224T023901 20151224T024154 C001 CS_OFFL_SIR_SIN_2__20151224T024309_20151224T024523_C001 CS OFFL SIR SIN 2 20151224T032942 20151224T033128 C001 CS_OFFL_SIR_SIN_2__20151224T033648_20151224T033653_C001 CS_OFFL_SIR_SIN_2__20151224T033812_20151224T034506_C001 CS OFFL SIR SIN 2 20151224T050933 20151224T051207 C001 CS_OFFL_SIR_SIN_2__20151224T051546_20151224T051552_C001 CS_OFFL_SIR_SIN_2__20151224T051913_20151224T052113_C001 CS OFFL SIR SIN 2 20151224T064814 20151224T064949 C001 CS_OFFL_SIR_SIN_2__20151224T065834_20151224T070001_C001 CS_OFFL_SIR_SIN_2__20151224T082825_20151224T082948_C001 CS_OFFL_SIR_SIN_2_20151224T083533_20151224T083559_C001 CS OFFL SIR SIN 2 20151224T083735 20151224T083848 C001 CS_OFFL_SIR_SIN_2__20151224T100749_20151224T100915_C001 CS OFFL SIR SIN 2 20151224T101426 20151224T101730 C001 CS_OFFL_SIR_SIN_2__20151224T114815_20151224T115113_C001 CS_OFFL_SIR_SIN_2_20151224T115328_20151224T115848_C001 CS OFFL SIR SIN 2 20151224T124423 20151224T124840 C001 CS OFFL SIR SIN 2 20151224T133236 20151224T133407 C001 CS OFFL SIR SIN 2 20151224T133739 20151224T133913 C001 CS_OFFL_SIR_SIN_2__20151224T142316_20151224T142429_C001 CS_OFFL_SIR_SIN_2__20151224T142608_20151224T142836_C001 CS OFFL SIR SIN 2 20151224T150305 20151224T150900 C001 CS_OFFL_SIR_SIN_2__20151224T151640_20151224T151824_C001 CS_OFFL_SIR_SIN_2__20151224T160238_20151224T160459_C001 CS_OFFL_SIR_SIN_2_20151224T164519_20151224T164711_C001 CS_OFFL_SIR_SIN_2__20151224T165538_20151224T165740_C001 CS_OFFL_SIR_SIN_2__20151224T173618_20151224T173636_C001 CS OFFL SIR SIN 2 20151224T182458 20151224T182636 C001 CS_OFFL_SIR_SIN_2__20151224T182758_20151224T182923_C001 CS OFFL SIR SIN 2 20151224T183339 20151224T183631 C001 CS OFFL SIR SIN 2 20151224T200449 20151224T200834 C001 CS OFFL SIR SIN 2 20151224T201418 20151224T201532 C001 CS_OFFL_SIR_SIN_2__20151224T205453_20151224T205514_C001 CS_OFFL_SIR_SIN_2__20151224T214422_20151224T214738_C001 CS_OFFL_SIR_SIN_2__20151224T215251_20151224T215414_C001 CS_OFFL_SIR_SIN_2__20151224T223512_20151224T223604_C001 CS_OFFL_SIR_SIN_2__20151224T232136_20151224T232533_C001 CS_OFFL_SIR_SIN_2__20151224T233159_20151224T233305_C001

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, 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

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