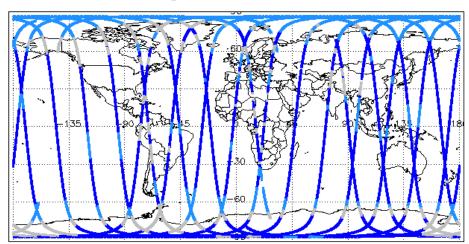


IDEAS+ Daily Report for OFFLINE data:

<u>30/11/2015</u>

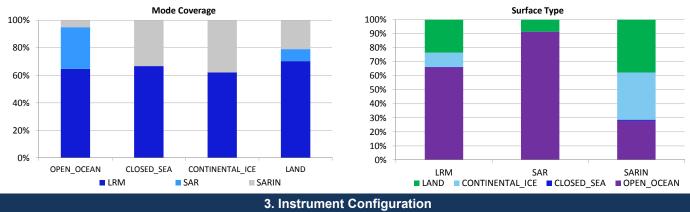


		1. Overview	
Report Production Date:	05-Jan-2016	Check	Status
report routetion Date.	05-341-2010	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data 000a.		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
sion / Instrument News			
9-Nov-2015 None			
	ility on 30-Nov-2015 from 18:09:22 to 20:02	:35 due to a planned orbit manoeuvre.	
1-Dec-2015 Nothing planned			
		2. Global Coverage	
	Global Coverage - North Pole		
		Global Cover	age - South Pole





5 (1)			
	LRM	65.6	
	SAR	22.3	
	SARIn	12.2	



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

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.

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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.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220151130T000529_20151130T003928_C001		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_220151130T004742_20151130T005155_C001	Surface Model Unavailable	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

CS_OFFL_SIR_LRM_2__20151130T014446_20151130T015711_C001 CS OFFL SIR LRM 2 20151130T020152 20151130T020353 C001 CS_OFFL_SIR_LRM_2_20151130T020355_20151130T021850_C001 CS OFFL SIR LRM 2 20151130T023750 20151130T025012 C001 CS_OFFL_SIR_LRM_2_20151130T025216_20151130T030942_C001 CS_OFFL_SIR_LRM_2__20151130T033137_20151130T034112_C001 CS_OFFL_SIR_LRM_2__20151130T034315_20151130T035751_C001 CS_OFFL_SIR_LRM_2__20151130T041342_20151130T041600_C001 CS_OFFL_SIR_LRM_2__20151130T043311_20151130T043640_C001 CS OFFL SIR LRM 2 20151130T043725 20151130T044437 C001 CS OFFL SIR LRM 2 20151130T044600 20151130T044733 C001 CS OFFL SIR LRM 2 20151130T052114 20151130T053638 C001 CS_OFFL_SIR_LRM_2__20151130T054523_20151130T054653_C001 CS_OFFL_SIR_LRM_2__20151130T055201_20151130T060311_C001 CS OFFL SIR LRM 2 20151130T060841 20151130T062557 C001 CS_OFFL_SIR_LRM_2__20151130T065536_20151130T071544_C001 CS OFFL SIR LRM 2 20151130T072422 20151130T072747 C001 CS_OFFL_SIR_LRM_2__20151130T074755_20151130T080245_C001 CS OFFL SIR LRM 2 20151130T083016 20151130T085451 C001 CS OFFL SIR LRM 2 20151130T090319 20151130T090652 C001 CS OFFL SIR LRM 2 20151130T091216 20151130T094437 C001 CS OFFL SIR LRM 2 20151130T095713 20151130T100015 C001 CS_OFFL_SIR_LRM_2__20151130T100842_20151130T101042_C001 CS_OFFL_SIR_LRM_2__20151130T105037_20151130T111153_C001 CS_OFFL_SIR_LRM_2__20151130T111438_20151130T112452_C001 CS_OFFL_SIR_LRM_2__20151130T114714_20151130T115232_C001 CS_OFFL_SIR_LRM_2_20151130T115240_20151130T120042_C001 CS_OFFL_SIR_LRM_2__20151130T120230_20151130T121239_C001 CS_OFFL_SIR_LRM_2__20151130T121836_20151130T122241_C001 CS OFFL SIR LRM 2 20151130T122948 20151130T123450 C001 CS_OFFL_SIR_LRM_2__20151130T123500_20151130T130402_C001 CS_OFFL_SIR_LRM_2__20151130T132015_20151130T135019_C001 CS_OFFL_SIR_LRM_2__20151130T140920_20151130T142611_C001 CS OFFL SIR LRM 2 20151130T143052 20151130T144001 C001 CS_OFFL_SIR_LRM_2__20151130T145918_20151130T151450_C001 CS OFFL SIR LRM 2 20151130T152110 20151130T153212 C001 CS_OFFL_SIR_LRM_2__20151130T153841_20151130T154100_C001 CS_OFFL_SIR_LRM_2__20151130T154813_20151130T160239_C001 CS OFFL SIR LRM 2 20151130T160419 20151130T161921 C001 CS_OFFL_SIR_LRM_2__20151130T163756_20151130T163947_C001 CS_OFFL_SIR_LRM_2__20151130T164109_20151130T164818_C001 CS_OFFL_SIR_LRM_2__20151130T164941_20151130T165402_C001 CS OFFL SIR LRM 2 20151130T165748 20151130T171254 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) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords 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) records Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) urface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records 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), 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records 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) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable 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) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (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 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 for one or more 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 for one or more 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 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 for one or more 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 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 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 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 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 for one or more There is a height and backscatter error for Retracker 2 for one or more 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 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 for one or more There is a height and backscatter error for Retracker 2 for one or more 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 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 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 for one or more records

CS_OFFL_SIR_LRM_2__20151130T171629_20151130T172505_C001 CS OFFL SIR LRM 2 20151130T172808 20151130T175015 C001 CS OFFL SIR LRM 2 20151130T224944 20151130T225219 C001 CS_OFFL_SIR_LRM_2_20151130T225945_20151130T230341_C001 CS_OFFL_SIR_LRM_2__20151130T231509_20151130T232454_C001 CS OFFL SIR LRM 2 20151130T232740 20151130T234901 C001 CS_OFFL_SIR_SIN_2__20151130T004132_20151130T004517_C001 CS_OFFL_SIR_SIN_2__20151130T005155_20151130T005302_C001 CS OFFL SIR SIN 2 20151130T013055 20151130T013234 C001 CS_OFFL_SIR_SIN_2__20151130T013416_20151130T013530_C001 CS_OFFL_SIR_SIN_2__20151130T021938_20151130T022114_C001 CS OFFL SIR SIN 2 20151130T022900 20151130T023045 C001 CS OFFL SIR SIN 2 20151130T030942 20151130T031444 C001 CS OFFL SIR SIN 2 20151130T035855 20151130T040040 C001 CS OFFL SIR SIN 2 20151130T040604 20151130T040609 C001 CS OFFL SIR SIN 2 20151130T040726 20151130T041301 C001 CS_OFFL_SIR_SIN_2__20151130T041304_20151130T041339_C001 CS_OFFL_SIR_SIN_2__20151130T044920_20151130T045329_C001 CS_OFFL_SIR_SIN_2__20151130T053805_20151130T054024_C001 CS OFFL SIR SIN 2 20151130T054654 20151130T055009 C001 CS_OFFL_SIR_SIN_2__20151130T071741_20151130T071857_C001 CS_OFFL_SIR_SIN_2__20151130T072403_20151130T072405_C001 CS OFFL SIR SIN 2 20151130T072747 20151130T072903 C001 CS_OFFL_SIR_SIN_2__20151130T081745_20151130T081822_C001 CS_OFFL_SIR_SIN_2__20151130T085714_20151130T085837_C001 CS OFFL SIR SIN 2 20151130T090317 20151130T090319 C001 CS_OFFL_SIR_SIN_2__20151130T090652_20151130T090809_C001 CS_OFFL_SIR_SIN_2__20151130T103654_20151130T103820_C001 CS OFFL SIR SIN 2 20151130T104343 20151130T104651 C001 CS_OFFL_SIR_SIN_2__20151130T113510_20151130T113544_C001 CS_OFFL_SIR_SIN_2__20151130T121636_20151130T121836_C001 CS OFFL SIR SIN 2 20151130T122242 20151130T122612 C001 CS OFFL SIR SIN 2 20151130T135719 20151130T135953 C001 CS_OFFL_SIR_SIN_2__20151130T140147_20151130T140453_C001 CS_OFFL_SIR_SIN_2__20151130T140616_20151130T140813_C001 CS_OFFL_SIR_SIN_2__20151130T145228_20151130T145349_C001 CS OFFL SIR SIN 2 20151130T145715 20151130T145918 C001 CS_OFFL_SIR_SIN_2__20151130T153245_20151130T153840_C001 CS_OFFL_SIR_SIN_2__20151130T154101_20151130T154135_C001 CS_OFFL_SIR_SIN_2_20151130T154557_20151130T154735_C001 CS_OFFL_SIR_SIN_2__20151130T162651_20151130T162751_C001 CS_OFFL_SIR_SIN_2__20151130T163154_20151130T163406_C001 CS_OFFL_SIR_SIN_2__20151130T171444_20151130T171628_C001 CS OFFL SIR SIN 2 20151130T172505 20151130T172703 C001 CS OFFL SIR SIN 2 20151130T212452 20151130T212517 C001 CS OFFL SIR SIN 2 20151130T221340 20151130T221652 C001 CS OFFL SIR SIN 2 20151130T222211 20151130T222325 C001 CS_OFFL_SIR_SIN_2__20151130T235129_20151130T235537_C001

Surface Model Unavailable leight Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) 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, Surface Model Unavailable 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, 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 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

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 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 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 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 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 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 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