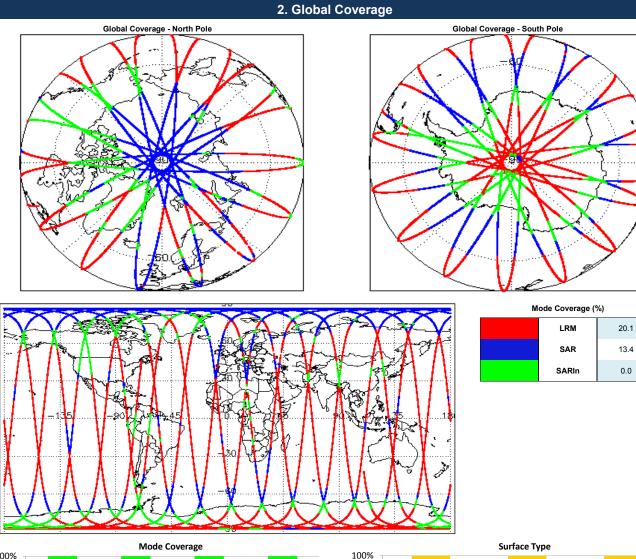
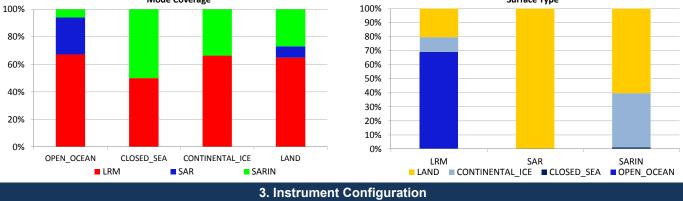


IDEAS+ Daily Report for OFFLINE data:

<u>29/10/2016</u>

1. Overview				
Report Production Date:	28-Nov-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	
		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	
		<u></u>		
Mission / Instrument News				
28-Oct-2016 None				
29-Oct-2016 None				
30-Oct-2016 Nothing planned				





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.

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: 97				
Product	Test Failed	Description		
CS_OFFL_SIR_LRM_220161028T235518_20161029T000935_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_220161029T001603_20161029T002925_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_220161029T004543_20161029T010849_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_2__20161029T013306_20161029T014051_C001 CS OFFL SIR LRM 2 20161029T014311 20161029T020909 C001 CS OFFL SIR LRM 2 20161029T021535 20161029T022028 C001 CS OFFL SIR LRM 2 20161029T022523 20161029T024918 C001 CS_OFFL_SIR_LRM_2__20161029T030144_20161029T030219_C001 CS_OFFL_SIR_LRM_2__20161029T032159_20161029T033155_C001 CS_OFFL_SIR_LRM_2__20161029T033733_20161029T034704_C001 CS_OFFL_SIR_LRM_2__20161029T040416_20161029T043122_C001 CS OFFL SIR LRM 2 20161029T043846 20161029T044137 C001 CS_OFFL_SIR_LRM_2__20161029T045341_20161029T052609_C001 CS_OFFL_SIR_LRM_2__20161029T063246_20161029T064203_C001 CS OFFL SIR LRM 2 20161029T064449 20161029T070611 C001 CS OFFL SIR LRM 2 20161029T072342 20161029T073325 C001 CS OFFL SIR LRM 2 20161029T073512 20161029T074745 C001 CS OFFL SIR LRM 2 20161029T080940 20161029T084450 C001 CS OFFL SIR LRM 2 20161029T090404 20161029T093528 C001 CS_OFFL_SIR_LRM_2__20161029T094919_20161029T100244_C001 CS_OFFL_SIR_LRM_2__20161029T100621_20161029T100827_C001 CS_OFFL_SIR_LRM_2__20161029T100832_20161029T102424_C001 CS OFFL SIR LRM 2 20161029T104150 20161029T105216 C001 CS OFFL SIR LRM 2 20161029T105759 20161029T111358 C001 CS OFFL SIR LRM 2 20161029T113727 20161029T114744 C001 CS_OFFL_SIR_LRM_2__20161029T114924_20161029T120253_C001 CS_OFFL_SIR_LRM_2__20161029T122316_20161029T123420_C001 CS OFFL SIR LRM 2 20161029T123547 20161029T124136 C001 CS OFFL SIR LRM 2 20161029T124419 20161029T125430 C001 CS_OFFL_SIR_LRM_2__20161029T131844_20161029T134114_C001 CS OFFL SIR LRM 2 20161029T135751 20161029T142531 C001 CS_OFFL_SIR_LRM_2__20161029T145648_20161029T152056_C001 CS_OFFL_SIR_LRM_2__20161029T155325_20161029T161016_C001 CS OFFL SIR LRM 2 20161029T163310 20161029T164250 C001 CS_OFFL_SIR_LRM_2__20161029T164252_20161029T165103_C001 CS_OFFL_SIR_LRM_2__20161029T171800_20161029T174955_C001 CS_OFFL_SIR_LRM_2__20161029T181459_20161029T181611_C001 CS OFFL SIR LRM 2 20161029T182120 20161029T183825 C001 CS_OFFL_SIR_LRM_2__20161029T185614_20161029T191723_C001 CS_OFFL_SIR_LRM_2__20161029T191806_20161029T193145_C001 CS OFFL SIR LRM 2 20161029T195342 20161029T201758 C001 CS OFFL SIR LRM 2 20161029T203544 20161029T210931 C001 CS_OFFL_SIR_LRM_2__20161029T212334_20161029T214251_C001 CS_OFFL_SIR_LRM_2__20161029T214322_20161029T215627_C001 CS OFFL SIR LRM 2 20161029T220522 20161029T220719 C001 CS_OFFL_SIR_LRM_2__20161029T221455_20161029T222943_C001 CS OFFL SIR LRM 2 20161029T223145 20161029T224106 C001

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) 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) 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) 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), 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), 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)

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 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 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 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 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 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 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 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 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 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

CS_OFFL_SIR_LRM_2__20161029T230326_20161029T232023_C001 CS OFFL SIR LRM 2 20161029T234345 20161029T234643 C001 CS OFFL SIR SIN 2 20161029T003156 20161029T003348 C001 CS OFFL SIR SIN 2 20161029T004214 20161029T004402 C001 CS_OFFL_SIR_SIN_2__20161029T012811_20161029T013306_C001 CS OFFL SIR SIN 2 20161029T021129 20161029T021249 C001 CS OFFL SIR SIN 2 20161029T021446 20161029T021535 C001 CS_OFFL_SIR_SIN_2__20161029T022028_20161029T022246_C001 CS_OFFL_SIR_SIN_2_20161029T030104_20161029T030144_C001 CS_OFFL_SIR_SIN_2__20161029T035055_20161029T035216_C001 CS_OFFL_SIR_SIN_2__20161029T035247_20161029T035456_C001 CS OFFL SIR SIN 2 20161029T040054 20161029T040223 C001 CS OFFL SIR SIN 2 20161029T053046 20161029T053403 C001 CS OFFL SIR SIN 2 20161029T053925 20161029T054044 C001 CS OFFL SIR SIN 2 20161029T070935 20161029T071256 C001 CS_OFFL_SIR_SIN_2__20161029T071819_20161029T071944_C001 CS_OFFL_SIR_SIN_2__20161029T075620_20161029T075658_C001 CS OFFL SIR SIN 2 20161029T075857 20161029T080155 C001 CS_OFFL_SIR_SIN_2__20161029T084607_20161029T084802_C001 CS OFFL SIR SIN 2 20161029T085635 20161029T085811 C001 CS_OFFL_SIR_SIN_2__20161029T093529_20161029T093637_C001 CS_OFFL_SIR_SIN_2__20161029T093954_20161029T094054_C001 CS_OFFL_SIR_SIN_2__20161029T102512_20161029T102652_C001 CS_OFFL_SIR_SIN_2__20161029T103233_20161029T103239_C001 CS_OFFL_SIR_SIN_2__20161029T103409_20161029T103618_C001 CS_OFFL_SIR_SIN_2__20161029T111358_20161029T111625_C001 CS_OFFL_SIR_SIN_2__20161029T111753_20161029T112008_C001 CS_OFFL_SIR_SIN_2__20161029T120425_20161029T120611_C001 CS OFFL SIR SIN 2 20161029T121255 20161029T121950 C001 CS_OFFL_SIR_SIN_2__20161029T134401_20161029T134649_C001 CS OFFL SIR SIN 2 20161029T135029 20161029T135035 C001 CS OFFL SIR SIN 2 20161029T135045 20161029T135050 C001 CS_OFFL_SIR_SIN_2_20161029T135354_20161029T135555_C001 CS OFFL SIR SIN 2 20161029T152255 20161029T152431 C001 CS_OFFL_SIR_SIN_2__20161029T153317_20161029T153444_C001 CS_OFFL_SIR_SIN_2__20161029T170305_20161029T170430_C001 CS OFFL SIR SIN 2 20161029T171016 20161029T171039 C001 CS OFFL SIR SIN 2 20161029T171218 20161029T171332 C001 CS_OFFL_SIR_SIN_2__20161029T184232_20161029T184357_C001 CS_OFFL_SIR_SIN_2_20161029T184909_20161029T185213_C001 CS_OFFL_SIR_SIN_2__20161029T202254_20161029T202553_C001 CS_OFFL_SIR_SIN_2__20161029T202811_20161029T203330_C001 CS OFFL SIR SIN 2 20161029T211907 20161029T212320 C001 CS_OFFL_SIR_SIN_2__20161029T220719_20161029T220853_C001 CS OFFL SIR SIN 2 20161029T221222 20161029T221355 C001 CS OFFL SIR SIN 2 20161029T225800 20161029T225913 C001 CS OFFL SIR SIN 2 20161029T230055 20161029T230326 C001 CS_OFFL_SIR_SIN_2__20161029T233747_20161029T234345_C001 CS_OFFL_SIR_SIN_2__20161029T234643_20161029T234650_C001 CS_OFFL_SIR_SIN_2__20161029T235123_20161029T235307_C001

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) 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, 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

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 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 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 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 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