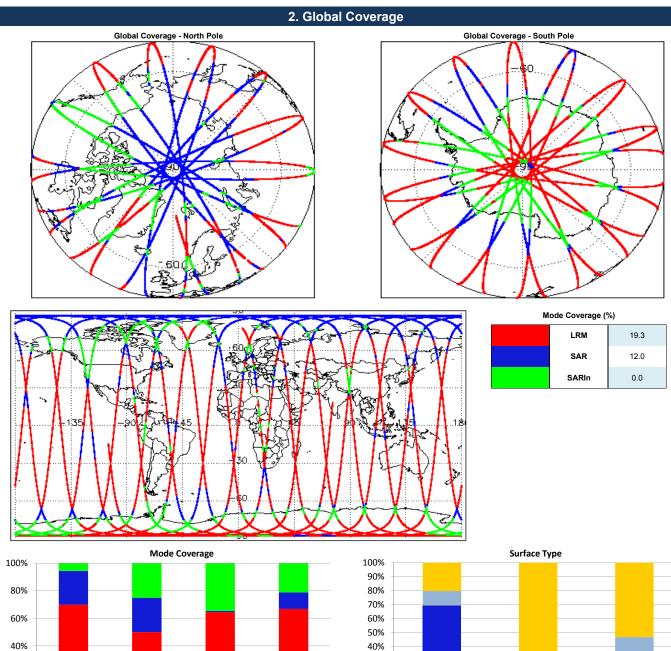


IDEAS+ Daily Report for OFFLINE data:

<u>15/04/2016</u>

		1. Overview		
			-	
Report Production Dates	13-May-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 Haada	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Used:		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				
14-Apr-2016 None				
15-Apr-2016 None				
16-Apr-2016 Nothing plann	ed			



LAND

SARIN

30%

20% 10%

0%

LRM SAR SARIN LAND CONTINENTAL_ICE CLOSED_SEA OPEN_OCEAN

The SIRAL instrument configuration for the day of acquisition is provided below.

CLOSED_SEA

CONTINENTAL_ICE

SAR

SIRAL instrument(s) in use: SIRAL - A

LRM

OPEN_OCEAN

20%

0%

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_20160415T060716_20160415T060716_C001 Percentage of processing errors detected greater than minimum acceptable threshold. 4.3 Star Tracker Usage Check Failed

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

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:

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: 108

Product	Test Failed	Description
CS OFFL SIR LRM 2 201604141235607 201604151002154 C001		There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160415T002916_20160415T003241_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220160415T005244_20160415T010237_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_220160415T010432_20160415T010456_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_220160415T010653_20160415T010707_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_220160415T013118_20160415T020151_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_220160415T020814_20160415T021145_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160415T021502_20160415T024935_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_220160415T030254_20160415T030414_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_220160415T031152_20160415T031217_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_220160415T031421_20160415T032223_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_220160415T035428_20160415T041642_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_220160415T041927_20160415T042819_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_220160415T045200_20160415T050656_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_220160415T050723_20160415T052014_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_220160415T052241_20160415T052735_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160415T053339_20160415T060615_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_220160415T062836_20160415T065513_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_220160415T071339_20160415T072946_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_220160415T072949_20160415T073101_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_220160415T073542_20160415T074322_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_220160415T080414_20160415T081943_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error	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_220160415T082157_20160415T083653_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_220160415T085240_20160415T090730_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_220160415T090909_20160415T092519_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_220160415T094715_20160415T095905_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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
CS_OFFL_SIR_LRM_220160415T100334_20160415T101836_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160415T103217_20160415T105633_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220160415T113046_20160415T115753_C001	(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_220160415T120319_20160415T120807_C001	Surface Model Unavailable Height Error (Retracker 2), Backscatter	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_LRM_220160415T121110_20160415T123706_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	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
CS_OFFL_SIR_LRM_220160415T130942_20160415T131938_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20160415T132517_20160415T133636_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160415T135008_20160415T141345_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160415T142630_20160415T142827_C001 CS_OFFL_SIR_LRM_220160415T144118_20160415T151535_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_201604151160447_201604151160841_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2201604151160447_201604151160641_C001 CS_OFFL_SIR_LRM_220160415T162107_20160415T162946_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	records There is a height and backscatter error for Retracker 2 for one or more records
	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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_220160415T170758_20160415T172106_C001	(Retracker 2) 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_220160415T172254_20160415T173526_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_220160415T175957_20160415T183316_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_220160415T185146_20160415T192235_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_220160415T194149_20160415T195027_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_220160415T195206_20160415T201245_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_220160415T202927_20160415T203921_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_220160415T204539_20160415T205719_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_2__20160415T211947_20160415T213527_C001 CS_OFFL_SIR_LRM_2__20160415T221042_20160415T222916_C001 CS OFFL SIR LRM 2 20160415T223158 20160415T223859 C001 CS OFFL SIR LRM 2 20160415T230705 20160415T233107 C001 CS_OFFL_SIR_LRM_2__20160415T234424_20160416T001115_C001 CS_OFFL_SIR_SIN_2__20160415T002238_20160415T002459_C001 CS_OFFL_SIR_SIN_2__20160415T002856_20160415T002900_C001 CS OFFL SIR SIN 2 20160415T002910 20160415T002916 C001 CS OFFL SIR SIN 2 20160415T003242 20160415T003356 C001 CS OFFL SIR SIN 2 20160415T012234 20160415T012255 C001 CS_OFFL_SIR_SIN_2__20160415T020201_20160415T020325_C001 CS_OFFL_SIR_SIN_2__20160415T020810_20160415T020814_C001 CS_OFFL_SIR_SIN_2__20160415T021145_20160415T021305_C001 CS OFFL SIR SIN 2 20160415T034147 20160415T034313 C001 CS_OFFL_SIR_SIN_2__20160415T034837_20160415T035148_C001 CS OFFL SIR SIN 2 20160415T043956 20160415T044047 C001 CS_OFFL_SIR_SIN_2__20160415T052126_20160415T052241_C001 CS_OFFL_SIR_SIN_2__20160415T052736_20160415T053101_C001 CS OFFL SIR SIN 2 20160415T070212 20160415T070448 C001 CS_OFFL_SIR_SIN_2__20160415T070641_20160415T071018_C001 CS_OFFL_SIR_SIN_2_20160415T071027_20160415T071307_C001 CS OFFL SIR SIN 2 20160415T075720 20160415T075840 C001 CS OFFL SIR SIN 2 20160415T080146 20160415T080325 C001 CS OFFL SIR SIN 2 20160415T080335 20160415T080413 C001 CS OFFL SIR SIN 2 20160415T083732 20160415T084338 C001 CS_OFFL_SIR_SIN_2__20160415T084554_20160415T084633_C001 CS OFFL SIR SIN 2 20160415T085053 20160415T085229 C001 CS OFFL SIR SIN 2 20160415T093641 20160415T093855 C001 CS_OFFL_SIR_SIN_2__20160415T094046_20160415T094256_C001 CS OFFL SIR SIN 2 20160415T101939 20160415T102129 C001 CS_OFFL_SIR_SIN_2__20160415T102957_20160415T103145_C001 CS_OFFL_SIR_SIN_2__20160415T111553_20160415T112045_C001 CS_OFFL_SIR_SIN_2_20160415T115913_20160415T120033_C001 CS_OFFL_SIR_SIN_2__20160415T120228_20160415T120319_C001 CS_OFFL_SIR_SIN_2_20160415T120808_20160415T121020_C001 CS OFFL SIR SIN 2 20160415T125040 20160415T125105 C001 CS OFFL SIR SIN 2 20160415T133840 20160415T134000 C001 CS_OFFL_SIR_SIN_2__20160415T134026_20160415T134239_C001 CS_OFFL_SIR_SIN_2__20160415T134836_20160415T135004_C001 CS_OFFL_SIR_SIN_2__20160415T142948_20160415T143005_C001 CS OFFL SIR SIN 2 20160415T151831 20160415T152146 C001 CS_OFFL_SIR_SIN_2__20160415T152707_20160415T152826_C001 CS_OFFL_SIR_SIN_2__20160415T165717_20160415T170037_C001 CS_OFFL_SIR_SIN_2__20160415T170602_20160415T170726_C001 CS_OFFL_SIR_SIN_2__20160415T174359_20160415T174440_C001 CS_OFFL_SIR_SIN_2__20160415T174632_20160415T174936_C001 CS OFFL SIR SIN 2 20160415T183351 20160415T183542 C001 CS_OFFL_SIR_SIN_2__20160415T184412_20160415T184550_C001 CS_OFFL_SIR_SIN_2__20160415T192258_20160415T192414_C001 CS OFFL SIR SIN 2 20160415T192736 20160415T192835 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) 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, Surface Model Unavailabl 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 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 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 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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CS_OFFL_SIR_SIN_220160415T201256_20160415T201436_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T202016_20160415T202022_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T202151_20160415T202401_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T210122_20160415T210421_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T210534_20160415T210749_C001	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
CS_OFFL_SIR_SIN_220160415T215208_20160415T215355_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T215914_20160415T215920_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T220039_20160415T220733_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T233159_20160415T233433_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T233812_20160415T233818_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160415T234141_20160415T234339_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records