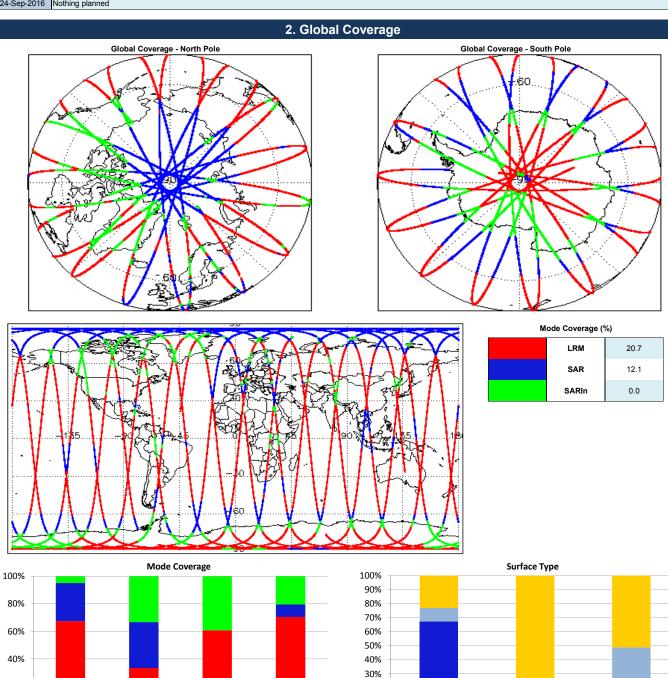


IDEAS+ Daily Report for OFFLINE data:

23/09/2016

1. Overview					
Report Production Date:	24-Oct-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		
Dete Heed	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		
Mission / Instrument News					
22-Sep-2016 None					
23-Sep-2016 None					
24-Sep-2016 Nothing planned					





3. Instrument Configuration

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.

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: 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

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: 3

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20160923T132114_20160923T133410_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20160923T132115_20160923T133410_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20160923T150902_20160923T151530_C001		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: 0

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.

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:

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.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220160922T234946_20160923T001738_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 erro for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160923T003914_20160923T005519_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_220160923T011850_20160923T012130_C002	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160923T012916_20160923T014303_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_220160923T014444_20160923T014727_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_220160923T021445_20160923T021529_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_220160923T021757_20160923T022012_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_220160923T022135_20160923T022725_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_220160923T023008_20160923T025249_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_220160923T025641_20160923T030525_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more record
CS_OFFL_SIR_LRM_220160923T030902_20160923T033237_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_220160923T034259_20160923T034627_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_220160923T040445_20160923T043217_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_220160923T044822_20160923T051431_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_220160923T051651_20160923T052606_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no Surface Model available for one or more records
CS_OFFL_SIR_LRM_220160923T054010_20160923T055513_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_220160923T060046_20160923T061004_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_220160923T063451_20160923T064224_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_220160923T070307_20160923T070502_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_220160923T071648_20160923T074947_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_220160923T080839_20160923T082359_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_220160923T084202_20160923T084350_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_220160923T085405_20160923T090524_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_220160923T090810_20160923T092907_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_220160923T094644_20160923T101101_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_220160923T102009_20160923T102043_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_220160923T103258_20160923T103657_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height 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_220160923T103700_20160923T110818_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_220160923T111633_20160923T111855_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more record
CS_OFFL_SIR_LRM_220160923T112719_20160923T113947_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_220160923T114043_20160923T115745_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160923T121922_20160923T123044_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_220160923T123247_20160923T124717_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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_220160923T130425_20160923T131633_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160923T132114_20160923T133410_C002	Height Error (Retracker 2), Height Error (Retracker 3), Backstatter Error (Retracker 2) Height 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_220160923T133534_20160923T133745_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_220160923T143503_20160923T143616_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more record
CS_OFFL_SIR_LRM_220160923T144218_20160923T150747_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_220160923T154132_20160923T160449_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_220160923T161400_20160923T161726_C002	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more record
CS_OFFL_SIR_LRM_220160923T163729_20160923T164842_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_220160923T170734_20160923T171531_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no surface model available for one or more records
CS_OFFL_SIR_LRM_220160923T172018_20160923T174421_C002	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_220160923T175259_20160923T175628_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more record

CS_OFFL_SIR_LRM_2__20160923T180106_20160923T181109_C001 CS_OFFL_SIR_LRM_2_20160923T181643_20160923T183435_C001 CS OFFL SIR LRM 2 20160923T184551 20160923T185020 C001 CS OFFL SIR LRM 2 20160923T194046 20160923T200404 C001 CS_OFFL_SIR_LRM_2__20160923T200411_20160923T201533_C001 CS OFFL SIR LRM 2 20160923T202553 20160923T202803 C001 CS_OFFL_SIR_LRM_2__20160923T202817_20160923T202829_C001 CS_OFFL_SIR_LRM_2__20160923T203647_20160923T210147_C001 CS OFFL SIR LRM 2 20160923T210716 20160923T211219 C001 CS_OFFL_SIR_LRM_2__20160923T211918_20160923T215511_C001 CS OFFL SIR LRM 2 20160923T221703 20160923T223955 C001 CS OFFL SIR LRM 2 20160923T225918 20160923T231336 C001 CS OFFL SIR LRM 2 20160923T231417 20160923T231546 C001 CS_OFFL_SIR_LRM_2__20160923T232028_20160923T233443_C001 CS_OFFL_SIR_LRM_2__20160923T234728_20160924T000437_C001 CS OFFL SIR SIN 2 20160923T003255 20160923T003412 C002 CS OFFL SIR SIN 2 20160923T003648 20160923T003914 C001 CS_OFFL_SIR_SIN_2__20160923T011240_20160923T011850_C001 CS OFFL SIR SIN 2 20160923T012130 20160923T012148 C001 CS_OFFL_SIR_SIN_2__20160923T012616_20160923T012757_C001 CS OFFL SIR SIN 2 20160923T021225 20160923T021438 C001 CS_OFFL_SIR_SIN_2__20160923T021530_20160923T021757_C001 CS OFFL SIR SIN 2 20160923T025501 20160923T025641 C001 CS OFFL SIR SIN 2 20160923T030526 20160923T030722 C001 CS_OFFL_SIR_SIN_2__20160923T035145_20160923T035629_C001 CS_OFFL_SIR_SIN_2__20160923T043438_20160923T043610_C001 CS OFFL SIR SIN 2 20160923T043744 20160923T043856 C001 CS_OFFL_SIR_SIN_2__20160923T061420_20160923T061809_C001 CS_OFFL_SIR_SIN_2__20160923T062357_20160923T062519_C001 CS_OFFL_SIR_SIN_2_20160923T070502_20160923T070541_C001 CS_OFFL_SIR_SIN_2__20160923T075401_20160923T075715_C001 CS_OFFL_SIR_SIN_2__20160923T080228_20160923T080344_C001 CS OFFL SIR SIN 2 20160923T093118 20160923T093538 C001 CS OFFL SIR SIN 2 20160923T094133 20160923T094248 C001 CS OFFL SIR SIN 2 20160923T101941 20160923T102511 C001 CS_OFFL_SIR_SIN_2__20160923T102052_20160923T102331_C001 CS_OFFL_SIR_SIN_2__20160923T102347_20160923T102511_C001 CS_OFFL_SIR_SIN_2__20160923T110926_20160923T111048_C001 CS OFFL SIR SIN 2 20160923T111855 20160923T112041 C001 CS_OFFL_SIR_SIN_2__20160923T115745_20160923T120155_C001 CS OFFL SIR SIN 2 20160923T120315 20160923T120418 C001 CS_OFFL_SIR_SIN_2__20160923T124833_20160923T125015_C001 CS_OFFL_SIR_SIN_2__20160923T125542_20160923T125549_C001 CS OFFL SIR SIN 2 20160923T125709 20160923T125939 C001 CS OFFL SIR SIN 2 20160923T134108 20160923T134317 C001 CS_OFFL_SIR_SIN_2__20160923T142727_20160923T142943_C001 CS_OFFL_SIR_SIN_2__20160923T143441_20160923T143447_C001 CS OFFL SIR SIN 2 20160923T152647 20160923T152724 C001

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Model was used for one or more records

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	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
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