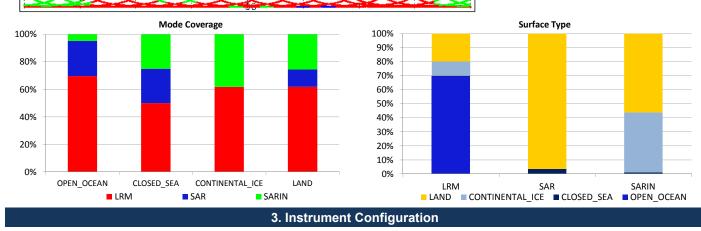


IDEAS+ Daily Report for OFFLINE data:

<u>19/04/2018</u>

1. Overview				
		Check	Status	
Report Production Date:	17-May-2018	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:		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	
Mission / Instrument News				
18-Apr-2018 None				
19-Apr-2018 None				
	a de la constante de			

20-Apr-2018 Nothing planned		
2. Global Cover	rage	
Global Coverage - North Pole	Global Coverage - South Pole	
		>
	Mode Coverage (%)	
CAN BAANY	LRM 2	20.1
ASA DETENT TORELLAND	SAR 1	13.0
	SARIN	0.0



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.

s:	
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Product	Test Failed	Description
		There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220180419T012541_20180419T014113_C001		There is a height and backscatter error for Retracker 2 for one or more records
CS OFFL SIR LRM 2 201804191014645 201804191015812 C001	S	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220180419T024900_20180419T024948_C001	5	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220180419T030300_20180419T033713_C001	
CS_OFFL_SIR_LRM_220180419T035035_20180419T040946_C001	
CS OFFL SIR LRM 2 20180419T042011 20180419T042021 C001	1
CS_OFFL_SIR_LRM_220180419T044215_20180419T051019_C001	
CS_OFFL_SIR_LRM_220180419T051029_20180419T051541_C001	1
CS_OFFL_SIR_LRM_220180419T052325_20180419T052738_C001	:
CS_OFFL_SIR_LRM_2_20180419T052954_20180419T060600_C001	1
CS_OFFL_SIR_LRM_2_20180419T062226_20180419T063626_C001	1
CS_OFFL_SIR_LRM_220180419T063731_20180419T065508_C001 CS_OFFL_SIR_LRM_220180419T071326_20180419T072550_C001	1
CS_OFFL_SIR_LRM_2_20180419T072718_20180419T074029_C001	1
CS_OFFL_SIR_LRM_220180419T080553_20180419T081648_C001	
CS_OFFL_SIR_LRM_220180419T081851_20180419T083412_C001	
CS_OFFL_SIR_LRM_220180419T090737_20180419T092013_C001	i
CS_OFFL_SIR_LRM_220180419T095751_20180419T101312_C001	1
CS_OFFL_SIR_LRM_220180419T102105_20180419T102223_C001	:
CS_OFFL_SIR_LRM_220180419T102649_20180419T105018_C001	
CS_OFFL_SIR_LRM_220180419T105021_20180419T105343_C001	i
CS_OFFL_SIR_LRM_220180419T112703_20180419T115240_C001	
CS_OFFL_SIR_LRM_220180419T120004_20180419T120329_C001	:
CS_OFFL_SIR_LRM_220180419T120602_20180419T121759_C001	
CS_OFFL_SIR_LRM_220180419T122331_20180419T123324_C001	
CS_OFFL_SIR_LRM_220180419T130337_20180419T133235_C001	1
CS_OFFL_SIR_LRM_220180419T133902_20180419T134232_C001	;
CS_OFFL_SIR_LRM_220180419T134550_20180419T135716_C001	1
CS_OFFL_SIR_LRM_220180419T135811_20180419T142025_C001	1
CS_OFFL_SIR_LRM_220180419T143346_20180419T143501_C001	1
CS_OFFL_SIR_LRM_220180419T144511_20180419T145326_C001	1
CS_OFFL_SIR_LRM_220180419T151400_20180419T151925_C001	
CS_OFFL_SIR_LRM_220180419T152517_20180419T154729_C001	1
CS_OFFL_SIR_LRM_220180419T155014_20180419T155902_C001	1
CS_OFFL_SIR_LRM_220180419T161204_20180419T161516_C001	1
CS_OFFL_SIR_LRM_220180419T162246_20180419T162815_C001	
CS_OFFL_SIR_LRM_220180419T163128_20180419T165102_C001	i
CS_OFFL_SIR_LRM_220180419T165326_20180419T165823_C001	:
CS_OFFL_SIR_LRM_220180419T170425_20180419T173707_C001	
CS_OFFL_SIR_LRM_220180419T180106_20180419T182559_C001	1
CS_OFFL_SIR_LRM_220180419T184427_20180419T190025_C001	l
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CS_OFFL_SIR_LRM_220180419T190028_20180419T190149_C001	
CS_OFFL_SIR_LRM_220180419T190629_20180419T191426_C001	
CS_OFFL_SIR_LRM_2_20180419T195244_20180419T200733_C001	1
CS_OFFL_SIR_LRM_220180419T202327_20180419T203818_C001	
CS_OFFL_SIR_LRM_220180419T203957_20180419T210037_C001	(
CS_OFFL_SIR_LRM_220180419T211750_20180419T212748_C001	
CS_OFFL_SIR_LRM_220180419T213434_20180419T214925_C001	1
CS_OFFL_SIR_LRM_2_20180419T220304_20180419T222544_C001	1
	0

(Re	ight Error (Retracker 2), Height Error etracker 3), Backscatter Error etracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
He	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
He	ight Error (Retracker 2), Backscatter for (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
He	ight Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
He	or (Retracker 2) ight Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
	or (Retracker 2) rface Model Unavailable	records No DEM or Slope Model was used for the location of one or more records
	ight Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
(Re	etracker 3), Backscatter Error etracker 2)	for Retracker 3 for one or more records
Err	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Err	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Err	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Err	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
(Re	ight Error (Retracker 2), Height Error etracker 3), Backscatter Error etracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
He	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
He	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	rface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
He	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
He (Re	ight Error (Retracker 2), Height Error etracker 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
	etracker 2) rface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
He	ight Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
(Re	etracker 3), Backscatter Error etracker 2)	for Retracker 3 for one or more records
Err	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	ight Error (Retracker 2), Backscatter or (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
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CS_OFFL_SIR_LRM_2__20180419T225136_20180419T225155_C001 CS OFFL SIR LRM 2 20180419T230142 20180419T232841 C001 CS_OFFL_SIR_LRM_2__20180419T233405_20180419T233858_C001 CS_OFFL_SIR_LRM_2__20180419T234158_20180420T000655_C001 CS OFFL SIR SIN 2 20180419T002039 20180419T002215 C001 CS OFFL SIR SIN 2 20180419T002342 20180419T002502 C001 CS_OFFL_SIR_SIN_2__20180419T002920_20180419T003208_C001 CS OFFL SIR SIN 2 20180419T020025 20180419T020414 C001 CS_OFFL_SIR_SIN_2__20180419T021000_20180419T021116_C001 CS OFFL SIR SIN 2 20180419T025044 20180419T025111 C001 CS OFFL SIR SIN 2 20180419T034002 20180419T034318 C001 CS_OFFL_SIR_SIN_2__20180419T034831_20180419T034952_C001 CS OFFL SIR SIN 2 20180419T043056 20180419T043137 C001 CS_OFFL_SIR_SIN_2__20180419T051718_20180419T052126_C001 CS_OFFL_SIR_SIN_2__20180419T052739_20180419T052847_C001 CS OFFL SIR SIN 2 20180419T060639 20180419T060859 C001 CS OFFL SIR SIN 2 20180419T060949 20180419T061109 C001 CS_OFFL_SIR_SIN_2__20180419T065525_20180419T065654_C001 CS OFFL SIR SIN_2__20180419T070449_20180419T070633_C001 CS_OFFL_SIR_SIN_2__20180419T074414_20180419T074824_C001 CS_OFFL_SIR_SIN_2__20180419T074858_20180419T075019_C001 CS OFFL SIR SIN 2 20180419T083436 20180419T083620 C001 CS OFFL SIR SIN 2 20180419T084145 20180419T084152 C001 CS OFFL SIR SIN 2 20180419T084310 20180419T084547 C001 CS OFFL SIR SIN 2 20180419T084752 20180419T084926 C001 CS OFFL SIR SIN 2 20180419T092448 20180419T092912 C001 CS OFFL SIR SIN 2 20180419T101358 20180419T101556 C001 CS_OFFL_SIR_SIN_2__20180419T102044_20180419T102050_C001 CS_OFFL_SIR_SIN_2__20180419T102224_20180419T102548_C001 CS OFFL SIR SIN 2 20180419T115326 20180419T115550 C001 CS_OFFL_SIR_SIN_2__20180419T115943_20180419T115948_C001 CS_OFFL_SIR_SIN_2__20180419T120329_20180419T120454_C001 CS OFFL SIR SIN 2 20180419T125320 20180419T125339 C001 CS_OFFL_SIR_SIN_2__20180419T133245_20180419T133409_C001 CS_OFFL_SIR_SIN_2__20180419T133856_20180419T133901_C001 CS OFFL SIR SIN 2 20180419T134232 20180419T134359 C001 CS_OFFL_SIR_SIN_2__20180419T151235_20180419T151400_C001 CS_OFFL_SIR_SIN_2__20180419T151925_20180419T152236_C001 CS OFFL SIR SIN 2 20180419T161041 20180419T161107 C001 CS OFFL SIR SIN 2 20180419T165211 20180419T165326 C001 CS_OFFL_SIR_SIN_2__20180419T165823_20180419T170146_C001 CS OFFL SIR SIN 2 20180419T175348 20180419T175429 C001 CS_OFFL_SIR_SIN_2__20180419T183259_20180419T183534_C001 CS OFFL SIR SIN 2 20180419T183728 20180419T184354 C001 CS_OFFL_SIR_SIN_2__20180419T192808_20180419T192928_C001 CS_OFFL_SIR_SIN_2__20180419T193227_20180419T193425_C001 CS OFFL SIR SIN 2 20180419T200816 20180419T201427 C001 CS_OFFL_SIR_SIN_2__20180419T201640_20180419T201722_C001 CS_OFFL_SIR_SIN_2__20180419T202141_20180419T202316_C001 CS OFFL SIR SIN 2 20180419T210727 20180419T210830 C001 CS OFFL SIR SIN 2 20180419T210905 20180419T210948 C001

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) 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, 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

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 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 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 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 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 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

CS_OFFL_SIR_SIN_220180419T215027_20180419T215218_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180419T220043_20180419T220231_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180419T224640_20180419T225136_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_220180419T233000_20180419T233119_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180419T233317_20180419T233405_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180419T233858_20180419T234118_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	152	152	152	0	0
SIR_LRM_2	150	150	150	0	0
SIR_LRMI2_	150	150	150	0	0
SIR_SAR_1B	112	112	112	0	0
SIR_SAR_2	112	112	112	0	0
SIR_SARI2_	112	112	112	0	0
SIR_SIN_1B	97	97	97	0	0
SIR_SIN_2	97	97	97	0	0
SIR_SINI2	97	97	97	0	0
SIR_GDR_2	14	14	14	0	0

6.1 QCC Errors		
Number of products with QCC errors:	0	
6.2 QCC Warnings		
Number of QCC reports with warnings	0	
6.2 Missing QCC Reports		
Number of products with missing QCC reports:	193	