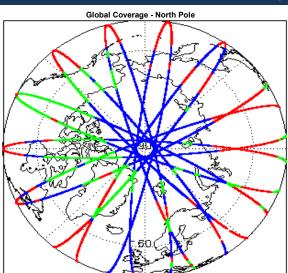
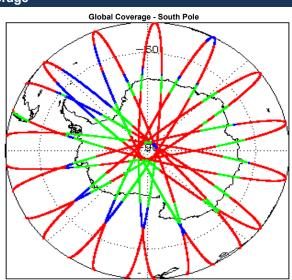


# IDEAS+ Daily Report for OFFLINE data:

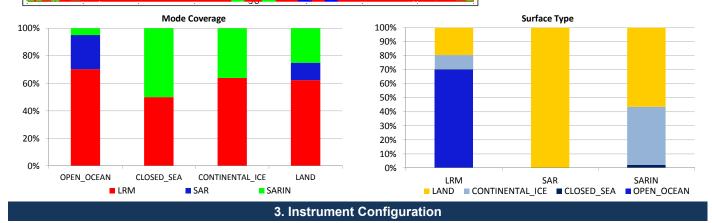
03/02/2016

1. Overview				
Report Production Date: 03-Mar-2016	00 Mar 0040	Check	Status	
	Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used: CryoSat Ice Proc	CrucSat los Brossosor	Server check: calval-pds.cryosat.esa.int	Nominal	
	CryoSal ice Processor	Product Software Check	Nominal	
Dete Heed:	Data Used: L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Used:		Product Header Analysis	See Section 4.2 and 5.2	
		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   02-Feb-2016 None   03-Feb-2016 None   04-Feb-2016 Nothing planned				
2. Global Coverage				
	Global Coverage - North Pole	Global Cover	rage - South Pole	





Mode Coverage (%)		
LRM	19.6	
SAR	12.7	
SARIn	0.0	



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

# 4. Level 1B Data Quality Check

### 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science served	ver, is checked to ensure it consis	sts of both an XML header file (.HDR) and a product file (.DBL).
Number of products with errors: 0		
4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are carried o	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_20160203T055817_20160203T05	55818_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
4.3 Star Tracker Usage Check		
Each product is checked in order to ensure a valid star track	er file has been used in processi	ng.
Number of products with errors: 0		
4.4 L1B Calibration Usage Check		
Each product is checked in order to ensure that the necessa	ary calibration files have been use	d 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 w	ith respect to a pre-determined b	aseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		

#### 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.

1

0

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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20160203T190732_20160203T190907_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:

### 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. 1

## Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_SAR_220160203T055817_20160203T055818_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

# 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.

Number of products with errors: 97

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220160202T235512_20160203T001059_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_220160203T002650_20160203T003500_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_220160203T004339_20160203T005458_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_220160203T013436_20160203T014935_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_220160203T020309_20160203T023717_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_220160203T030714_20160203T030909_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_220160203T031007_20160203T032946_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_220160203T033630_20160203T033957_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160203T034215_20160203T040944_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_220160203T043904_20160203T050853_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_220160203T051528_20160203T051856_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160203T052205_20160203T055652_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_220160203T062228_20160203T062350_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_220160203T070119_20160203T073513_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_220160203T080344_20160203T082735_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_220160203T082940_20160203T083448_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160203T084003_20160203T091444_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_220160203T093928_20160203T100222_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_220160203T101155_20160203T101352_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160203T102040_20160203T103811_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_220160203T104252_20160203T105007_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_220160203T111001_20160203T112736_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_220160203T112910_20160203T114314_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_220160203T115941_20160203T121519_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_220160203T121720_20160203T122644_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_220160203T125443_20160203T130550_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_220160203T131218_20160203T131715_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_220160203T132137_20160203T132600_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_220160203T132902_20160203T133705_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160203T133853_20160203T135427_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_220160203T143119_20160203T150514_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_220160203T150741_20160203T150948_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160203T151018_20160203T151549_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160203T151814_20160203T154016_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_220160203T161548_20160203T164351_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_220160203T165709_20160203T172609_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
	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more

CS\_OFFL\_SIR\_LRM\_2\_\_20160203T192842\_20160203T200245\_C001 CS OFFL SIR LRM 2 20160203T201448 20160203T203807 C001 CS OFFL SIR LRM 2 20160203T210644 20160203T214039 C001 CS OFFL SIR LRM 2 20160203T214818 20160203T215213 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160203T215408\_20160203T223035\_C001 CS OFFL SIR LRM 2 20160203T225014 20160203T225740 C001 CS OFFL SIR LRM 2 20160203T230221 20160203T232003 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160203T233733\_20160203T235035\_C001 CS OFFL SIR LRM 2 20160203T235250 20160204T000439 C001 CS OFFL SIR SIN 2 20160203T001059 20160203T001241 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T001812\_20160203T001819\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T001941\_20160203T002203\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T005955\_20160203T010249\_C001 CS OFFL SIR SIN 2 20160203T010335 20160203T010547 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T014949\_20160203T015200\_C001 CS OFFL SIR SIN 2 20160203T015710 20160203T015716 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T015841\_20160203T020309\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T033004\_20160203T033237\_C001 CS OFFL SIR SIN 2 20160203T033608 20160203T033614 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T033957\_20160203T034140\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T050853\_20160203T051022\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T051521\_20160203T051528\_C001 CS OFFL SIR SIN 2 20160203T051856 20160203T052033 C001 CS OFFL SIR SIN 2 20160203T060740 20160203T060804 C001 CS OFFL SIR SIN 2 20160203T064904 20160203T065020 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T065552\_20160203T065911\_C001 CS OFFL SIR SIN 2 20160203T074706 20160203T074800 C001 CS OFFL SIR SIN 2 20160203T082823 20160203T082940 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T083448\_20160203T083800\_C001 CS OFFL SIR SIN 2 20160203T100919 20160203T101154 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T101352\_20160203T101925\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T110443\_20160203T110938\_C001 CS OFFL SIR SIN 2 20160203T115302 20160203T115404 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T115803\_20160203T115941\_C001 CS\_OFFL\_SIR\_SIN\_2\_20160203T124349\_20160203T124457\_C001 CS OFFL SIR SIN 2 20160203T124601 20160203T124719 C001 CS OFFL SIR SIN 2 20160203T131715 20160203T132137 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T132645\_20160203T132902\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T133705\_20160203T133853\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T142304\_20160203T142900\_C001 CS OFFL SIR SIN 2 20160203T150554 20160203T150741 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T150948\_20160203T151018\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T151549\_20160203T151814\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T155633\_20160203T155656\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T155754\_20160203T155823\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T164520\_20160203T164701\_C001 CS OFFL SIR SIN 2 20160203T164806 20160203T164949 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T165433\_20160203T165456\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160203T165547\_20160203T165709\_C001 CS OFFL SIR SIN 2 20160203T182528 20160203T182858 C001

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) Surface Model Unavailable 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 Unavailable SARIn X-track Angle Error ARIn 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, 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, 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_220160203T183429_20160203T183545_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T200440_20160203T200800_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T201314_20160203T201437_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T205511_20160203T205648_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T214149_20160203T214343_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T215213_20160203T215322_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T223058_20160203T223200_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T223446_20160203T223554_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T232003_20160203T232141_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160203T232915_20160203T233109_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records