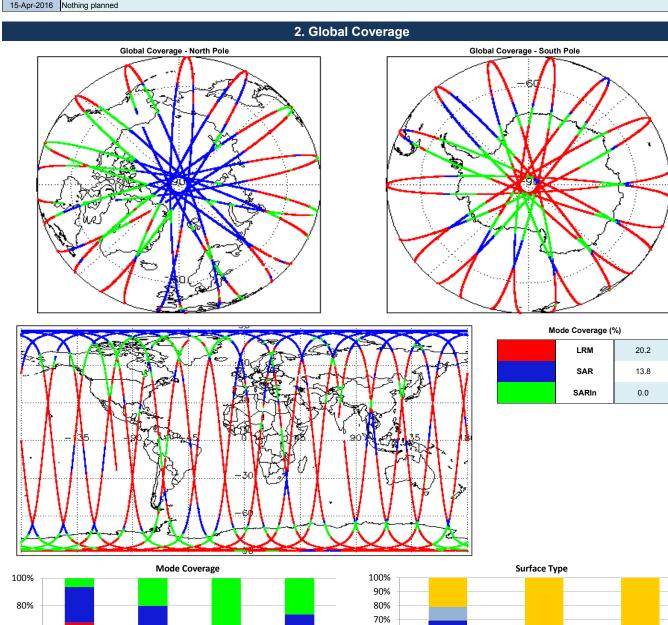
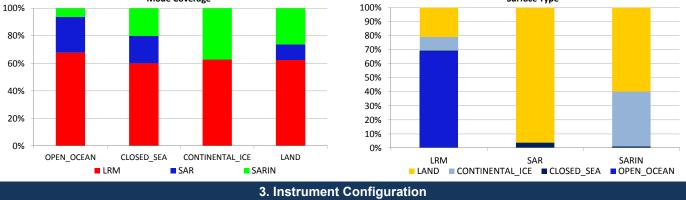


# IDEAS+ Daily Report for OFFLINE data:

### <u>14/04/2016</u>

Report Production Processor Use		Server check: science-pds.cryosat.esa.int Server check: calval-pds.cryosat.esa.int	Nominal Nominal
Processor Use	d: CryoSat Ice Processor		Nominal
FIDCESSOF USE	d. Cryosal ice Processor		
		Product Software Check	Nominal
Data Haadu	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Used:	LIB and L2 OFFLINE Data	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





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:         1					
Product	Test Failed				
CS_OFFL_SIR_SAR_1B_20160414T202652_20160414T202654_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 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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20160414T022039_20160414T022241_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.

### Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_SAR_220160414T202652_20160414T202654_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.

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Test Failed

(Retracker 2)

Error (Retracker 2)

Retracker 2)

(Retracker 2)

Error (Retracker 2)

Product CS\_OFFL\_SIR\_LRM\_2\_\_20160413T234654\_20160414T001422\_C001 CS OFFL SIR LRM 2 20160414T003643 20160414T003721 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T004659\_20160414T011304\_C001 CS OFFL SIR LRM 2 20160414T012647 20160414T013755 C001 CS OFFL SIR LRM 2 20160414T014333 20160414T020023 C001 CS OFFL SIR LRM 2 20160414T022320 20160414T023110 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T023121\_20160414T024112\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T024630\_20160414T025254\_C001 CS OFFL SIR LRM 2 20160414T030556 20160414T033939 C001 CS\_OFFL\_SIR\_LRM\_2\_20160414T040509\_20160414T040621\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T041130\_20160414T043209\_C001 CS OFFL SIR LRM 2 20160414T044517 20160414T050731 C001 CS OFFL SIR LRM 2 20160414T050835 20160414T051942 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T054351\_20160414T060925\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T060929\_20160414T061021\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T062518\_20160414T065509\_C001 CS OFFL SIR LRM 2 20160414T065526 20160414T065602 C001 CS OFFL SIR LRM 2 20160414T071410 20160414T073303 C001 CS OFFL SIR LRM 2 20160414T073332 20160414T074636 C001 CS OFFL SIR LRM 2 20160414T075532 20160414T075729 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T080418\_20160414T081952\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T082154\_20160414T083114\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T085337\_20160414T085557\_C001 CS OFFL SIR LRM 2 20160414T085808 20160414T091033 C001 CS OFFL SIR LRM 2 20160414T093356 20160414T093652 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T094342\_20160414T095820\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T103648\_20160414T104238\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T104523\_20160414T110933\_C001 CS OFFL SIR LRM 2 20160414T111203 20160414T112032 C001 CS OFFL SIR LRM 2 20160414T112309 20160414T114018 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T115810\_20160414T115848\_C001 CS OFFL SIR LRM 2 20160414T121954 20160414T123112 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T123646\_20160414T124804\_C001 CS OFFL SIR LRM 2 20160414T130204 20160414T133139 C001 CS OFFL SIR LRM 2 20160414T135445 20160414T141027 C001 CS OFFL SIR LRM 2 20160414T141557 20160414T142722 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T145155\_20160414T145601\_C001 CS OFFL SIR LRM 2 20160414T151810 20160414T151900 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T153220\_20160414T160627\_C001 CS OFFL SIR LRM 2 20160414T161951 20160414T164759 C001 CS OFFL SIR LRM 2 20160414T164919 20160414T164934 C001 CS\_OFFL\_SIR\_LRM\_2\_20160414T171124\_20160414T173940\_C001 CS OFFL SIR LRM 2 20160414T173951 20160414T174454 C001

Description Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records Height 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2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records

CS\_OFFL\_SIR\_LRM\_2\_\_20160414T175909\_20160414T183511\_C001 CS OFFL SIR LRM 2 20160414T185135 20160414T190321 C001 CS OFFL SIR LRM 2 20160414T190644 20160414T190920 C001 CS OFFL SIR LRM 2 20160414T190927 20160414T192422 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T194239\_20160414T195322\_C001 CS OFFL SIR LRM 2 20160414T195641 20160414T200938 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T201026\_20160414T201347\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T203559\_20160414T204603\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T204806\_20160414T210323\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T211837\_20160414T212232\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T213630\_20160414T214926\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T222648\_20160414T224225\_C001 CS\_OFFL\_SIR\_LRM\_2\_20160414T225018\_20160414T225139\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160414T225604\_20160414T232306\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T011304\_20160414T011441\_C001 CS OFFL SIR SIN 2 20160414T012327 20160414T012453 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T021152\_20160414T021224\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T025315\_20160414T025440\_C001 CS OFFL SIR SIN 2 20160414T030026 20160414T030047 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T030228\_20160414T030341\_C001 CS\_OFFL\_SIR\_SIN\_2\_20160414T043242\_20160414T043408\_C001 CS OFFL SIR SIN 2 20160414T043919 20160414T044222 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T061303\_20160414T061603\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T061821\_20160414T062339\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T070916\_20160414T071328\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T075729\_20160414T075904\_C001 CS OFFL SIR SIN 2 20160414T080232 20160414T080404 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T085105\_20160414T085337\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T092758\_20160414T093355\_C001 CS OFFL SIR SIN 2 20160414T093653 20160414T093700 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T094133\_20160414T094317\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T102730\_20160414T102951\_C001 CS OFFL SIR SIN 2 20160414T111012 20160414T111203 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T112032\_20160414T112229\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T120112\_20160414T120130\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T124951\_20160414T125128\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T125253\_20160414T125415\_C001 CS OFFL SIR SIN 2 20160414T125832 20160414T130123 C001 CS OFFL SIR SIN 2 20160414T142940 20160414T143327 C001 CS OFFL SIR SIN 2 20160414T143912 20160414T144026 C001 CS OFFL SIR SIN 2 20160414T152017 20160414T152033 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T160915\_20160414T161231\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T161743\_20160414T161906\_C001 CS OFFL SIR SIN 2 20160414T170006 20160414T170053 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T174630\_20160414T175032\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T175652\_20160414T175759\_C001 CS\_OFFL\_SIR\_SIN\_2\_20160414T183547\_20160414T183759\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T183903\_20160414T184021\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160414T192437\_20160414T192608\_C001

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), Backscatter Error (Retracker 2) Height Error (Retracker 2). 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) 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) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) 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, Surface Model Unavailable SARIn X-track Angle Error records

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CS_OFFL_SIR_SIN_220160414T193359_20160414T193543_C001	SARIN X-HACK ANDIE EITOP	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160414T201347_20160414T201601_C001		An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160414T201609_20160414T201745_C001	ISARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160414T201805_20160414T201933_C001	ISARIN X-TRACK ANDIE ETTOR	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160414T210349_20160414T210533_C001		An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160414T211058_20160414T211104_C001		An ambiguous angle was detected for SARIn mode for one or more records
	<b>0</b>	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_220160414T215410_20160414T215823_C001	0	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_220160414T224308_20160414T224512_C001	ISARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160414T224957_20160414T225002_C001		An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160414T225139_20160414T225501_C001	ISARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records