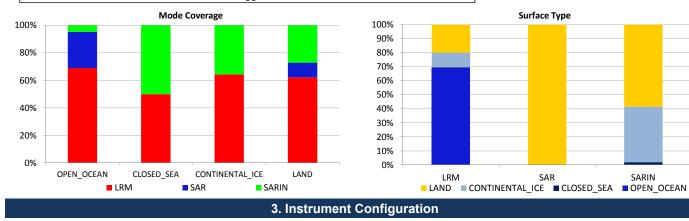


# IDEAS+ Daily Report for OFFLINE data:

## 03/04/2016

1. Overview					
		Check Status			
Report Production Date:	te: 04-May-2016	Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used:	CrueSet les Presses	Server check: calval-pds.cryosat.esa.int	Nominal		
	CryoSat Ice Processor	Product Software Check	Nominal		
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal		
	LIB and L2 OFFLINE Data	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	i				
02-Apr-2016 None					
03-Apr-2016 None	None				
04 Amer 0040 Night in miles					

04-Apr-2016 Nothing planned	
2. Global Cove	erage
Global Coverage - North Pole	Global Coverage - South Pole
	Mode Coverage (%)
AAAAA	LRM 20.1
PATRIL A A ASSA A-A-A-	SAR 13.1
	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:

#### 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: 1

Test Failed

#### .

Product

CS\_OFFL\_SIR\_LRM\_1B\_20160403T001220\_20160403T003337\_C001

Echo error, TRK echo error

Description 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: 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.

#### 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220160403T001220_20160403T003337_C001	(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_220160403T003343_20160403T003700_C001
CS_OFFL_SIR_LRM_2_20160403T004357_20160403T004724_C001
CS_OFFL_SIR_LRM_220160403T004948_20160403T010600_C001 CS_OFFL_SIR_LRM_220160403T010724_20160403T011811_C001
CS_OFFL_SIR_LRM_220160403T015010_20160403T021622_C001
CS_OFFL_SIR_LRM_220160403T022924_20160403T024103_C001
CS_OFFL_SIR_LRM_220160403T024637_20160403T030430_C001
CS_OFFL_SIR_LRM_220160403T032902_20160403T033038_C001
CS_OFFL_SIR_LRM_220160403T040827_20160403T044242_C001
CS_OFFL_SIR_LRM_220160403T045615_20160403T045740_C001
CS_OFFL_SIR_LRM_220160403T050636_20160403T050927_C001
CS_OFFL_SIR_LRM_220160403T051110_20160403T053519_C001
CS_OFFL_SIR_LRM_220160403T053707_20160403T054216_C001
CS_OFFL_SIR_LRM_220160403T054729_20160403T062154_C001
CS_OFFL_SIR_LRM_220160403T064707_20160403T070949_C001
CS_OFFL_SIR_LRM_220160403T072803_20160403T074304_C001
CS_OFFL_SIR_LRM_220160403T074306_20160403T074541_C001
CS_OFFL_SIR_LRM_220160403T075022_20160403T075729_C001
CS_OFFL_SIR_LRM_220160403T081736_20160403T083446_C001
CS_OFFL_SIR_LRM_220160403T083634_20160403T085052_C001
CS_OFFL_SIR_LRM_220160403T090709_20160403T092247_C001
CS_OFFL_SIR_LRM_220160403T092448_20160403T093410_C001
CS_OFFL_SIR_LRM_220160403T100219_20160403T101334_C001
CS_OFFL_SIR_LRM_220160403T101910_20160403T102731_C001
CS_OFFL_SIR_LRM_220160403T102817_20160403T103344_C001
CS_OFFL_SIR_LRM_220160403T103624_20160403T104434_C001
CS_OFFL_SIR_LRM_220160403T104626_20160403T110231_C001
CS_OFFL_SIR_LRM_220160403T114521_20160403T121236_C001
CS_OFFL_SIR_LRM_220160403T121749_20160403T122312_C001
CS_OFFL_SIR_LRM_220160403T122544_20160403T124944_C001
CS_OFFL_SIR_LRM_220160403T132307_20160403T133415_C001
CS_OFFL_SIR_LRM_220160403T133953_20160403T135126_C001
CS_OFFL_SIR_LRM_220160403T140443_20160403T142633_C001
CS_OFFL_SIR_LRM_220160403T144125_20160403T144246_C001
CS_OFFL_SIR_LRM_220160403T145636_20160403T153056_C001
CS_OFFL_SIR_LRM_220160403T154321_20160403T154945_C001
CS_OFFL_SIR_LRM_220160403T155241_20160403T160200_C001
CS_OFFL_SIR_LRM_220160403T162021_20160403T162024_C001
CS_OFFL_SIR_LRM_220160403T162039_20160403T162256_C001
CS_OFFL_SIR_LRM_220160403T163603_20160403T164539_C001
CS_OFFL_SIR_LRM_220160403T164711_20160403T171020_C001
CS_OFFL_SIR_LRM_220160403T172220_20160403T175049_C001
CS_OFFL_SIR_LRM_220160403T181430_20160403T184806_C001
CS_OFFL_SIR_LRM_220160403T185546_20160403T185939_C001
CS_OFFL_SIR_LRM_220160403T190141_20160403T190524_C001
CS_OFFL_SIR_LRM_220160403T190630_20160403T193753_C001

Height Error (Retracker 2), Backscatter Error (Retracker 2)
Surface Model Unavailable
Height Error (Retracker 2), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Backscatter Error (Retracker 2)
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CS\_OFFL\_SIR\_LRM\_2\_\_20160403T195754\_20160403T200504\_C001 CS OFFL SIR LRM 2 20160403T200945 20160403T201114 C001 CS OFFL SIR LRM 2 20160403T201117 20160403T202731 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160403T204449 20160403T205805 C001 CS OFFL SIR LRM 2 20160403T210019 20160403T211219 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160403T213941\_20160403T215005\_C001 CS OFFL SIR LRM 2 20160403T215144 20160403T220643 C001 CS OFFL SIR LRM 2 20160403T222846 20160403T223430 C001 CS OFFL SIR LRM 2 20160403T223956 20160403T224357 C001 CS OFFL SIR LRM 2 20160403T224519 20160403T224618 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160403T224640\_20160403T225228\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160403T232201\_20160403T234551\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160403T235850\_20160404T002748\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T003728\_20160403T004000\_C001 CS OFFL SIR SIN 2 20160403T004335 20160403T004342 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T004351\_20160403T004357\_C001 CS OFFL SIR SIN 2 20160403T004724 20160403T004907 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T021622\_20160403T021751\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T022624\_20160403T022803\_C001 CS OFFL SIR SIN 2 20160403T035630\_20160403T035749\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T040320\_20160403T040636\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T045431\_20160403T045513\_C001 CS\_OFFL\_SIR\_SIN\_2\_20160403T053553\_20160403T053707\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T054216\_20160403T054531\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T071649\_20160403T071925\_C001 CS OFFL SIR SIN 2 20160403T072120 20160403T072701 C001 CS OFFL SIR SIN 2 20160403T081206 20160403T081431 C001 CS OFFL SIR SIN 2 20160403T081554 20160403T081714 C001 CS OFFL SIR SIN 2 20160403T085523 20160403T085825 C001 CS OFFL SIR SIN 2 20160403T090030 20160403T090127 C001 CS OFFL SIR SIN 2 20160403T090532 20160403T090709 C001 CS OFFL SIR SIN 2 20160403T095115 20160403T095222 C001 CS OFFL SIR SIN 2 20160403T095318 20160403T095419 C001 CS OFFL SIR SIN 2 20160403T103417 20160403T103624 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T104435\_20160403T104622\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T113029\_20160403T113618\_C001 CS OFFL SIR SIN 2 20160403T121714 20160403T121749 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T122312\_20160403T122544\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T130353\_20160403T130420\_C001 CS OFFL SIR SIN 2 20160403T135309 20160403T135430 C001 CS OFFL SIR SIN 2 20160403T135529 20160403T135717 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T140320\_20160403T140443\_C001 CS OFFL SIR SIN 2 20160403T153258 20160403T153626 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T154155\_20160403T154312\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T171205\_20160403T171526\_C001 CS OFFL SIR SIN 2 20160403T172042 20160403T172206 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T180206\_20160403T180416\_C001 CS OFFL SIR SIN 2 20160403T184910 20160403T185057 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160403T185939\_20160403T190050\_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) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro (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) 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 SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error

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CS_OFFL_SIR_SIN_220160403T193813_20160403T193920_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T194213_20160403T194319_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T202731_20160403T202908_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T203457_20160403T203500_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T203640_20160403T203838_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T212017_20160403T212233_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_220160403T220646_20160403T220834_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T221355_20160403T221401_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T221515_20160403T222210_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T225556_20160403T230108_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_220160403T234552_20160403T234857_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T235253_20160403T235259_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160403T235539_20160403T235809_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records