

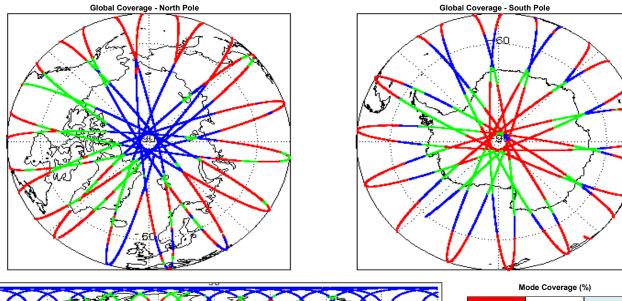
IDEAS+ Daily Report for OFFLINE data:

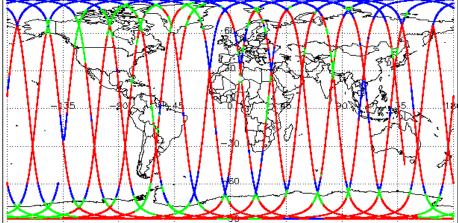
<u>19/09/2016</u>

eport Production Date:	24-Oct-2016	Check	Status
Report Froduction 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
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

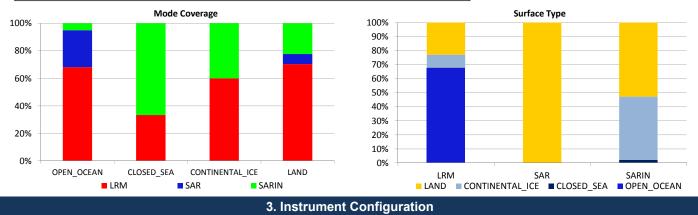
18-Sep-2016	None
19-Sep-2016	None
20-Sep-2016	Nothing planned







5.	,
LRM	19.6
SAR	12.7
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

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Product

CS_OFFL_SIR_LRM_1B_20160919T015646_20160919T020444_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.

111

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	lest Failed	Description
CS_OFFL_SIR_LRM_220160918T235437_20160919T002245_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_2__20160919T004427_20160919T010012_C001 CS OFFL SIR LRM 2 20160919T010630 20160919T011726 C001 CS OFFL SIR LRM 2 20160919T012349 20160919T012622 C001 CS OFFL SIR LRM 2 20160919T013408 20160919T014757 C001 CS_OFFL_SIR_LRM_2__20160919T014937_20160919T015244_C001 CS OFFL SIR LRM 2 20160919T015646 20160919T020444 C001 CS OFFL SIR LRM 2 20160919T021942 20160919T022028 C001 CS_OFFL_SIR_LRM_2__20160919T022257_20160919T022506_C001 CS_OFFL_SIR_LRM_2__20160919T022629_20160919T023338_C001 CS OFFL SIR LRM 2 20160919T023501 20160919T025740 C001 CS_OFFL_SIR_LRM_2__20160919T030132_20160919T031025_C001 CS_OFFL_SIR_LRM_2__20160919T031355_20160919T033637_C001 CS_OFFL_SIR_LRM_2__20160919T034752_20160919T035038_C001 CS OFFL SIR LRM 2 20160919T040337 20160919T043712 C001 CS_OFFL_SIR_LRM_2__20160919T045320_20160919T051708_C001 CS_OFFL_SIR_LRM_2__20160919T051824_20160919T053058_C001 CS_OFFL_SIR_LRM_2__20160919T054520_20160919T060006_C001 CS OFFL SIR LRM 2 20160919T063215 20160919T065651 C001 CS_OFFL_SIR_LRM_2__20160919T070803_20160919T070939_C001 CS_OFFL_SIR_LRM_2__20160919T072134_20160919T075443_C001 CS_OFFL_SIR_LRM_2__20160919T081408_20160919T081801_C001 CS_OFFL_SIR_LRM_2__20160919T081836_20160919T083316_C001 CS OFFL SIR LRM 2 20160919T084442 20160919T084852 C001 CS_OFFL_SIR_LRM_2__20160919T085857_20160919T091016_C001 CS_OFFL_SIR_LRM_2__20160919T091302_20160919T093402_C001 CS_OFFL_SIR_LRM_2__20160919T095137_20160919T100134_C001 CS_OFFL_SIR_LRM_2__20160919T100239_20160919T101541_C001 CS_OFFL_SIR_LRM_2__20160919T102512_20160919T102541_C001 CS_OFFL_SIR_LRM_2__20160919T103801_20160919T104123_C001 CS_OFFL_SIR_LRM_2__20160919T104127_20160919T111258_C001 CS OFFL SIR LRM 2 20160919T112127 20160919T112357 C001 CS_OFFL_SIR_LRM_2__20160919T113211_20160919T114441_C001 CS_OFFL_SIR_LRM_2__20160919T114515_20160919T120232_C001 CS OFFL SIR LRM 2 20160919T121638 20160919T122234 C001 CS_OFFL_SIR_LRM_2__20160919T122402_20160919T123535_C001 CS OFFL SIR LRM 2 20160919T123739 20160919T125211 C001 CS_OFFL_SIR_LRM_2__20160919T130927_20160919T132127_C001 CS_OFFL_SIR_LRM_2__20160919T132608_20160919T134230_C001 CS OFFL SIR LRM 2 20160919T134531 20160919T134602 C001 CS_OFFL_SIR_LRM_2__20160919T144712_20160919T151249_C001 CS_OFFL_SIR_LRM_2_20160919T154725_20160919T160835_C001 CS OFFL SIR LRM 2 20160919T161855 20160919T162221 C001 CS OFFL SIR LRM 2 20160919T162557 20160919T164120 C002 CS OFFL SIR LRM 2 20160919T164223 20160919T165230 C001

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) 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), 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), 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 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), 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 Erro (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), Backscatter Error (Retracker 2) Surface Model Unavailable 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) 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) 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 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 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 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 ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 and a height error for Retracker 3 for one or more records 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 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records 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 There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records 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 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 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 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 ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records 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 and a height error for Retracker 3 for one or more records 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 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 ecords

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_2__20160919T171222_20160919T172024_C001 CS OFFL SIR LRM 2 20160919T172526 20160919T174914 C001 CS_OFFL_SIR_LRM_2__20160919T180548_20160919T181600_C002 CS_OFFL_SIR_LRM_2__20160919T182135_20160919T183931_C001 CS OFFL SIR LRM 2 20160919T185047 20160919T185810 C001 CS_OFFL_SIR_LRM_2__20160919T190404_20160919T190540_C001 CS_OFFL_SIR_LRM_2__20160919T194545_20160919T202028_C001 CS_OFFL_SIR_LRM_2__20160919T202109_20160919T202134_C001 CS_OFFL_SIR_LRM_2_20160919T203017_20160919T203242_C001 CS_OFFL_SIR_LRM_2__20160919T204137_20160919T204427_C001 CS_OFFL_SIR_LRM_2_20160919T204611_20160919T210636_C001 CS OFFL SIR LRM 2 20160919T211205 20160919T211713 C001 CS OFFL SIR LRM 2 20160919T212411 20160919T215953 C001 CS OFFL SIR LRM 2 20160919T221016 20160919T221139 C001 CS_OFFL_SIR_LRM_2__20160919T222209_20160919T224448_C001 CS_OFFL_SIR_LRM_2__20160919T230358_20160919T232039_C001 CS_OFEL_SIR_LRM_2_20160919T232521_20160919T233938_C001 CS OFFL SIR LRM 2 20160919T235216 20160920T000948 C001 CS OFFL SIR SIN 2 20160919T003747 20160919T003906 C001 CS OFFL SIR SIN 2 20160919T004301 20160919T004426 C001 CS_OFFL_SIR_SIN_2__20160919T011732_20160919T012349_C001 CS_OFFL_SIR_SIN_2__20160919T012622_20160919T012644_C001 CS OFFL SIR SIN 2 20160919T013111 20160919T013251 C001 CS_OFFL_SIR_SIN_2__20160919T021723_20160919T021930_C001 CS_OFFL_SIR_SIN_2__20160919T025957_20160919T030132_C001 CS_OFFL_SIR_SIN_2_20160919T031025_20160919T031224_C001 CS_OFFL_SIR_SIN_2__20160919T035634_20160919T040120_C001 CS_OFFL_SIR_SIN_2__20160919T043933_20160919T044102_C001 CS OFFL SIR SIN 2 20160919T044241 20160919T044349 C001 CS_OFFL_SIR_SIN_2__20160919T044814_20160919T045044_C001 CS OFFL SIR SIN 2 20160919T061912 20160919T062303 C001 CS OFFL SIR SIN 2 20160919T070939 20160919T071036 C001 CS_OFFL_SIR_SIN_2__20160919T075856_20160919T080209_C001 CS_OFFL_SIR_SIN_2__20160919T080723_20160919T080836_C001 CS_OFFL_SIR_SIN_2__20160919T093615_20160919T094040_C001 CS_OFFL_SIR_SIN_2__20160919T094626_20160919T094745_C001 CS_OFFL_SIR_SIN_2_20160919T102422_20160919T103005_C001 CS_OFFL_SIR_SIN_2__20160919T102553_20160919T103005_C001 CS_OFFL_SIR_SIN_2__20160919T111420_20160919T111540_C001 CS OFFL SIR SIN 2 20160919T112357 20160919T112544 C001 CS_OFFL_SIR_SIN_2__20160919T120501_20160919T120624_C001 CS_OFFL_SIR_SIN_2__20160919T120808_20160919T120910_C001 CS OFFL SIR SIN 2 20160919T125325 20160919T125507 C001 CS OFFL SIR SIN 2 20160919T130037 20160919T130043 C001 CS_OFFL_SIR_SIN_2__20160919T130205_20160919T130431_C001 CS OFFL SIR SIN 2 20160919T134230 20160919T134531 C001 CS_OFFL_SIR_SIN_2__20160919T134602_20160919T134813_C001 CS OFFL SIR SIN 2 20160919T143210 20160919T143430 C001 CS OFFL SIR SIN 2 20160919T143935 20160919T143941 C001 CS_OFFL_SIR_SIN_2__20160919T144108_20160919T144529_C001

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), 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) 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 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, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error

records

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CS_OFFL_SIR_SIN_220160919T153147_20160919T153221_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_220160919T161226_20160919T161458_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T161832_20160919T161839_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T161849_20160919T161855_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T162222_20160919T162404_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T175121_20160919T175249_C002	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T180122_20160919T180300_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T193128_20160919T193247_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T193817_20160919T194134_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T202933_20160919T203017_C002	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_220160919T211051_20160919T211205_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T211713_20160919T212028_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T225146_20160919T225422_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T225617_20160919T230157_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T234708_20160919T234951_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160919T235056_20160919T235216_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records