

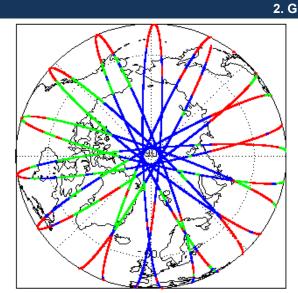
QA4EO Daily Report for OFFLINE data:

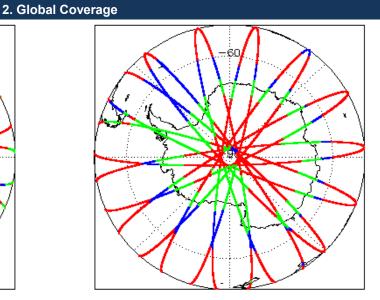
<u>07/05/2021</u>

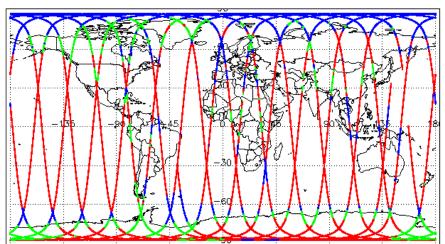
1. Overview

Demant Draduction Dates	08-Jun-2021	Check	Status
Report Production Date:	08-Jun-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.	Cryosal ice Processoi	Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Oseu.	LIB and L2 OFFLINE Data	Product Header Analysis	Nominal
		Star Tracker Usage Check	Nominal
		L1B Tracking Flag Check	See Section 4.4
		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 4.8 and 5.5
		QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

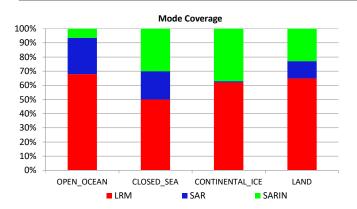
Mission / Instru	iment News
06-May-2021	None
07-May-2021	None
08-May-2021	Nothing planned
	•

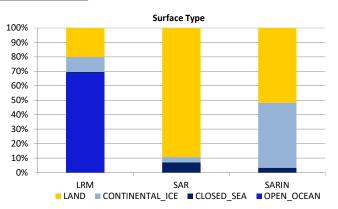












3. Instrument Configuration

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

SIRAL - A

SIRAL instrument(s) in use:

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. 0

Number of products with errors:

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors: 109

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210507T000852_20210507T000935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T000939_20210507T002614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T004330_20210507T005709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T011246_20210507T011321_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T012822_20210507T013613_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T013853_20210507T014913_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T022547_20210507T023427_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T023814_20210507T024302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T024546_20210507T025133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T030641_20210507T031205_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T031207_20210507T031335_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T031338_20210507T031420_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T031423_20210507T031430_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T031432_20210507T031438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T031440_20210507T031506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T031526_20210507T031615_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T032015_20210507T032046_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T034812_20210507T035156_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T035218_20210507T035510_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T035836_20210507T042323_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T042327_20210507T042328_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T042331_20210507T042407_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T042411_20210507T042505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T042507_20210507T042609_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T042613_20210507T042632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T042635_20210507T042658_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T042915_20210507T043226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T045006_20210507T045504_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T045614_20210507T045633_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T045840_20210507T052402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T053118_20210507T053444_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T062811_20210507T063129_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T063203_20210507T063351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T063353_20210507T063357_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T063400_20210507T063523_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T063526_20210507T065324_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T070556_20210507T071147_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T071748_20210507T074047_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T074049_20210507T075055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T080437_20210507T080528_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T080611_20210507T080641_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20210507T081012 20210507T081233 D001 CS OFFL SIR LRM 1B 20210507T081245 20210507T081328 D001 CS OFFL SIR LRM 1B 20210507T082254 20210507T082612 D001 CS_OFFL_SIR_LRM_1B_20210507T082640_20210507T082834_D001 CS OFFL SIR LRM 1B 20210507T084527 20210507T085040 D001 CS_OFFL_SIR_LRM_1B_20210507T093210_20210507T093320_D001 CS OFFL SIR LRM 1B 20210507T095229 20210507T095406 D001 CS OFFL SIR LRM 1B 20210507T095503 20210507T100001 D001 CS OFFL SIR LRM 1B 20210507T100016 20210507T100028 D001 CS OFFL SIR LRM 1B 20210507T100138 20210507T100749 D001 CS OFFL SIR LRM 1B 20210507T102715 20210507T102942 D001 CS_OFFL_SIR_LRM_1B_20210507T111055_20210507T111059_D001 CS_OFFL_SIR_LRM_1B_20210507T111102_20210507T111315_D001 CS_OFFL_SIR_LRM_1B_20210507T114457_20210507T115735_D001 CS OFFL SIR LRM 1B 20210507T120655 20210507T120851 D001 CS_OFFL_SIR_LRM_1B_20210507T121040_20210507T121354_D001 CS_OFFL_SIR_LRM_1B_20210507T121550_20210507T123117_D001 CS_OFFL_SIR_LRM_1B_20210507T123320_20210507T124326_D001 CS_OFFL_SIR_LRM_1B_20210507T124632_20210507T125303_D001 CS_OFFL_SIR_LRM_1B_20210507T130858_20210507T132200_D001 CS_OFFL_SIR_LRM_1B_20210507T132509_20210507T132620_D001 CS_OFFL_SIR_LRM_1B_20210507T132640_20210507T133342_D001 CS OFFL SIR LRM 1B 20210507T134526 20210507T134813 D001 CS_OFFL_SIR_LRM_1B_20210507T141835_20210507T141956_D001 CS OFFL SIR LRM 1B 20210507T142018 20210507T142103 D001 CS_OFFL_SIR_LRM_1B_20210507T142113_20210507T142129_D001 CS_OFFL_SIR_LRM_1B_20210507T142131_20210507T142235_D001 CS OFFL SIR LRM 1B 20210507T142237 20210507T142416 D001 CS OFFL SIR LRM 1B 20210507T142419 20210507T142636 D001 CS OFFL SIR LRM 1B 20210507T142641 20210507T142646 D001 CS OFFL SIR LRM 1B 20210507T142648 20210507T142651 D001 CS_OFFL_SIR_LRM_1B_20210507T142655_20210507T143255_D001 CS OFFL SIR LRM 1B 20210507T144831 20210507T145406 D001 CS_OFFL_SIR_LRM_1B_20210507T145650_20210507T152027_D001 CS OFFL SIR LRM 1B 20210507T152325 20210507T153202 D001 CS_OFFL_SIR_LRM_1B_20210507T153451_20210507T155941_D001 CS OFFL SIR LRM 1B 20210507T160207 20210507T160239 D001 CS_OFFL_SIR_LRM_1B_20210507T160451_20210507T160818_D001 CS_OFEL_SIR_LRM_1B_20210507T162525_20210507T162949_D001 CS OFFL SIR LRM 1B 20210507T163126 20210507T163151 D001 CS OFFL SIR LRM 1B 20210507T163153 20210507T163259 D001 CS OFFL SIR LRM 1B 20210507T163302 20210507T163334 D001 CS_OFFL_SIR_LRM_1B_20210507T163336_20210507T165917_D001 CS_OFFL_SIR_LRM_1B_20210507T170540_20210507T170959_D001 CS OFFL SIR LRM 1B 20210507T171400 20210507T174040 D001 CS_OFFL_SIR_LRM_1B_20210507T174042_20210507T174325_D001 CS OFFL SIR LRM 1B 20210507T174401 20210507T174619 D001 CS_OFFL_SIR_LRM_1B_20210507T174619_20210507T174846_D001 CS OFFL SIR LRM 1B 20210507T190317 20210507T190908 D001 CS_OFFL_SIR_LRM_1B_20210507T191259_20210507T191600_D001 CS_OFFL_SIR_LRM_1B_20210507T191603_20210507T191840_D001 CS_OFFL_SIR_LRM_1B_20210507T192022_20210507T192025_D001 CS OFFL SIR LRM 1B 20210507T192108 20210507T192112 D001 CS_OFFL_SIR_LRM_1B_20210507T192241_20210507T192403_D001 CS OFFL SIR LRM 1B 20210507T192403 20210507T192601 D001 CS_OFFL_SIR_LRM_1B_20210507T205234_20210507T205540_D001 CS OFFL SIR LRM 1B 20210507T205543 20210507T205935 D001 CS_OFFL_SIR_LRM_1B_20210507T210124_20210507T210251_D001 CS_OFFL_SIR_LRM_1B_20210507T213228_20210507T215053_D001 CS OFFL SIR LRM 1B 20210507T215103 20210507T215617 D001 CS_OFFL_SIR_LRM_1B_20210507T220407_20210507T220820_D001 CS_OFFL_SIR_LRM_1B_20210507T225933_20210507T225935_D001 CS OFFL SIR LRM 1B 20210507T225937 20210507T230052 D001 CS_OFFL_SIR_LRM_1B_20210507T230248_20210507T230250_D001

Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo

The tracking echo is missing for one or more records The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210507T230253_20210507T231822_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T232349_20210507T232901_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T232936_20210507T233540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210507T234319_20210507T234535_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

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Number of products with errors:

4.6 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:

4.7 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:

4.8 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_20210507T045006_20210507T045504_D001	Echo error IRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210507T174401_20210507T174619_D001	IEcho error IBK echo error	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

Number of products with errors.

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.

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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_220210506T235610_20210507T000411_D001	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_220210507T000852_20210507T000935_D001	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_220210507T000939_20210507T002614_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

cs., OFTL_SRL_LML_2_22216007101228_2021607701128_0.0001 Implif Even (Marchan 2) There is integril and backcodine even for Relations 2 and a height end (Marchan 2) cs., OFTL_SRL_LML_2_22216007101286_20216007101286_0.0001 Implif Even (Relations 2) There is a height and backcodine even for Relations 2 for one or more even for Relat	or for Retracker 2 for one or more
Call Phrile Call Dev End (Rescaler 2) records CB_OPPL_SRL_PML2_X2150071012522_X2150071013551_0001 Surface Model Unevaluate No DEM or Stope Model was used for the boatscont or one or more records CB_OPPL_SRL_PML2_X2150071013552_X2150071013551_0001 Height Enor (Rescaler 2), Backbacter Incords Incords <t< td=""><td></td></t<>	
CS_OFFL_SR_LEM_2_20210507T015853_0210507T014013_001 Height Error (Rescuer 2) There is a height and backscatter error for Rescuer 2 for one or more macross CS_OFFL_SR_LEM_2_20210507T015052_02105007T02505_0011 Height Error (Rescuer 2), Backscatter There is a height and backscatter error for Rescuer 2 for one or more macross CS_OFFL_SR_LEM_2_20210507T022515_0210507T022505_0011 Height Error (Rescuer 2), Backscatter There is a height and backscatter error for Rescuer 2 for one or more macross CS_OFFL_SR_LEM_2_20210507T022517_02210507T022517_001125_07T022520_0011 Height Error (Rescuer 2), Height Error (Rescuer 2) There is a height and backscatter error for Rescuer 2 for one or more macross CS_OFFL_SR_LEM_2_20210507T022517_02210507T022547_00011 Height Error (Rescuer 2), Height Error (Rescuer 2) There is a height and backscatter error for Rescuer 2 and a height error (Rescuer 2) CS_OFFL_SR_LEM_2_20210507T023552_00210007T034550_0001 Height Error (Rescuer 2), Backscatter There is a height and backscatter error for Rescuer 2 for one or more macross CS_OFFL_SR_LEM_2_20210507T032552_0210507T034550_0001 Height Error (Rescuer 2), Backscatter There is a height and backscatter error for Rescuer 2 for one or more macross CS_OFFL_SR_LEM_2_20210507T032560_00210507T03456_0001 Height Error (Rescuer 2), Backscatter There is a height and backscatter error for Rescuer 2 for one or more macross CS_OFFL_SR_LEM_2_20210507T032560_00110E/RES Height Error (Rescuer 2), Backscatter <td< td=""><td>r for Retracker 2 for one or more</td></td<>	r for Retracker 2 for one or more
ES_OPPL_SR_LEW_2_a0210607103583_202106071022005_D001 Enror (Retracker 2) neode CS_OPPL_SR_LEW_2_a0210607102203_202106071022005_D001 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607102213_202106071022207_D001 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a02106071022147_202106071022147_D001 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607102247_20010 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607102247_20010 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607102342_2001007102432_D001 Height Enror (Retracker 2) Retracker 3) CS_OPPL_SR_LEW_2_a0210607102432_2001007103435_D001 Height Enror (Retracker 2) Retracker 3) CS_OPPL_SR_LEW_2_a0210607103435_D001 Height Enror (Retracker 2) Retracker 3) CS_OPPL_SR_LEW_2_a0210607103435_D001 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607103435_D001 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607103436_D001 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607104546_202001 Height Enror (Retracker 2) Retracker 2) CS_OPPL_SR_LEW_2_a0210607104546_202001 Height Enror (Retracker 2) Ret	the location of one or more records
CS_OFF_SR_LRM_2_20210607T022113_20210507T02228_D001 Firer (Reinsder ?) Firer (Reins	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_202109071022647_20210907102367_00011 Emor (Retracker 2) records CS_OFFL_SIR_LRM_2_202109071022647_20210907102367_00011 Height Emor (Retracker 2), Height Emor (Retracker 2), Height Emor (Retracker 2), Endstander 2) There is a height and backscatter error for Retracker 2 and a height emor (Retracker 2), Endstander 2) CS_OFFL_SIR_LRM_2_202109071023614_202109071024302_0001 Height Emor (Retracker 2), Backscatter Emor There is a height and backscatter error for Retracker 2 and a height emor (Retracker 2) CS_OFFL_SIR_LRM_2_202109071034305_0001 Height Emor (Retracker 2), Backscatter Emor (Retracker 2), Back	r for Retracker 2 for one or more
OFFL_SIR_LRM_2_a02100071022814_202100071024302_D001 Emr (Retracker 2) records CS_OFFL_SIR_LRM_2_a02100071023814_202100071024302_D001 Height Emr (Retracker 2), Height Emr (Retracker 2), Backscatter Emr For Retracker 2), Backscatter Emr (Retracker 3) for one or more records CS_OFFL_SIR_LRM_2_202105071054545_20210507105454	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T023814_20210507T024322_D001 (Refracker 2), Backscatter error for Retracker 2 and a neight error for Retracker 2 and a neight error (Retracker 2) CS_OFFL_SIR_LRM_2_20210507T032552_20210507T034355_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T034553_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T04458_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T045840_20210507T045432_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T045840_20210507T045402_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T0453816_20210507T061125_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T061262_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T07145820_D010057T065324_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more ercords CS_OFFL_SIR_LRM_2_20210507T071445_0210507T075055_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more ercords <	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T035386_20210507T042323_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T044758_20210507T042323_D001 Height Error (Retracker 2) Backscatter CS_OFFL_SIR_LRM_2_20210507T044758_20210507T044843_D001 Height Error (Retracker 2) Backscatter CS_OFFL_SIR_LRM_2_20210507T044758_20210507T044843_D001 Height Error (Retracker 2) Backscatter CS_OFFL_SIR_LRM_2_20210507T044758_20210507T044843_D001 Height Error (Retracker 2) Backscatter CS_OFFL_SIR_LRM_2_20210507T064840_20210507T061252_D001 Height Error (Retracker 2) Backscatter CS_OFFL_SIR_LRM_2_20210507T0633816_20210507T061125_D001 Height Error (Retracker 2) Backscatter CS_OFFL_SIR_LRM_2_20210507T063526_20210507T065324_D001 Height Error (Retracker 2) Backscatter CS_OFFL_SIR_LRM_2_20210507T071748_20210507T074047_D001 Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height err for Retracker 2) CS_OFFL_SIR_LRM_2_20210507T071748_20210507T075055_D001 Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height err for Retracker 2). CS_OFFL_SIR_LRM_2_20210507T0704047_D001 Height Error (Retracker 2) Height Error (Retracker 2) CS_OFFL_SIR_LRM_2_20210507T0704049_20210507T0555_D001 Height Error (Retracker 2) Height Error (Retra	
CS_OFFL_SIR_LRM_2_20210507T044758_20210507T044843_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T044758_20210507T044843_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T045840_20210507T052402_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T053816_20210507T052402_D001 Height Error (Retracker 2), Height Error (Retracker 2), Contexport (Retracker 2), Height Error (Retracker 2), Scatscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Scatscatter Error (Retracker 2), Height Error (Retracker 2), Scatscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter error for Retracker 2 and a height error (Retracker 2), Scatscatter Error (Retracker 2), Height Error (Retracker 2), Scatscatter Error (Retracker 2), Scatscatter error for Retracker 2, and a height error (Retracker 2), Backscatter error for Retracker 2, and a height error (Retracker 2), Backscatter error for Retracker 2, and the DEM or Stope Model was used for the location of or or more records CS_OFFL_SIR_LRM_2_20210507T074049_20210507T07080528_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T080528_D001 Error (Retracker 2), Backscatter error for Retracker 2 for one or more records	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T044758_20210507T052402_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T045840_20210507T052402_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T053816_20210507T061125_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), a height Error (Retracker 2), Backscatter Error (Retracker 2), a height Error (Retracker 2), Backscatter Error (Retracker 2), Back	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T053816_20210507T061125_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T053816_20210507T065324_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter CS_OFFL_SIR_LRM_2_20210507T063526_20210507T065324_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter CS_OFFL_SIR_LRM_2_20210507T074047_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T074049_20210507T075055_D001 (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Surface model unavailable There is a height and backscatter error for Retracker 2, a height error for Retracker 2, a height error for Retracker 2, a height error for Retracker 2). CS_OFFL_SIR_LRM_2_20210507T0760437_20210507T080528_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T081245_20210507T081228_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LRM_2_20210507T082640_20210507T084232_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) <td>r for Retracker 2 for one or more</td>	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T063526_20210507T065324_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T063526_20210507T065324_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Eackscatter Error (Retracker 2), Backscatter Error (Retracker 2), Sackscatter Error (Retracker 2), Backscatter Error (Retracker 2), Sackscatter Error (Retracker 2), Backscatter Error (Retrack	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T063526_20210507T065324_D001 (Retracker 3), Backscatter Error (Retracker 2) Index is a height and backscatter error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LRM_2_20210507T071748_20210507T074047_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T074049_20210507T075055_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2, a height and backscatter error for Retracker 2, a height error for Retracker 2, and no DEM or Slope Model was used for the location of or for more records CS_OFFL_SIR_LRM_2_20210507T07080437_20210507T080528_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T081245_20210507T081328_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T082640_20210507T082834_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), B	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_202105071074049_202105071074047_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T074049_20210507T075055_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable There is a height and backscatter error for Retracker 2, a height end of or or more records CS_OFFL_SIR_LRM_2_20210507T080437_20210507T080528_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T081245_20210507T081328_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T081245_20210507T081328_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscat	
CS_OFFL_SIR_LRM_2_20210507T074049_20210507T075055_D001 (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable Retracker 3 and no DEM or Slope Model was used for the location of or more records CS_OFFL_SIR_LRM_2_20210507T080437_20210507T080528_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T081245_20210507T081328_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T081245_20210507T082834_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Eight Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Eight Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T083043_20210507T084232_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T085706_20210507T084232_D001	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T080437_20210507T080528_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T081245_20210507T081328_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T082640_20210507T082834_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error for Retracker 2) for one or more records CS_OFFL_SIR_LRM_2_20210507T083043_20210507T084232_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error for Retracker 2), Backscatter Error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T084043_20210507T084232_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T08507E020210507T084232_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records	
CS_OFFL_SIR_LRM_2_20210507T081245_20210507T081285_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20210507T082640_20210507T082834_D001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LRM_2_20210507T083043_20210507T084232_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter 2) There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T083043_20210507T084232_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210507T084232_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T082640_20210507T082834_D001 (Retracker 3), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 3, Backscatter CS_OFFL_SIR_LRM_2_20210507T083043_20210507T084232_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_2021050/T083043_2021050/T084232_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_2021050/T0850706_2021050/T08454_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	
	r for Retracker 2 for one or more
	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T092139_20210507T093116_D001 Height Error (Retracker 2), Backscatter Provide	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T095229_20210507T095406_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T100138_20210507T100749_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter 2), Backsca	
CS_OFFL_SIR_LRM_2_20210507T100758_20210507T102040_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records	r for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20210507T103647_20210507T105400_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) for Retracker 3 for one or more records	
CS_OFFL_SIR_LRM_2_20210507T110608_20210507T110928_D001 Height Error (Retracker 2), Backscatter Provide Precords There is a height and backscatter error for Retracker 2 for one or more records	r for Retracker 2 for one or more

CS_OFFL_SIR_LRM_220210507T112530_20210507T114447_D001	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_220210507T114457_20210507T115735_D001	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_220210507T121550_20210507T123117_D001	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_220210507T123320_20210507T124326_D001	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_220210507T130858_20210507T132200_D001	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_220210507T135529_20210507T140944_D001	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_220210507T141124_20210507T141321_D001	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_220210507T142113_20210507T142129_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210507T142419_20210507T142636_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210507T145650_20210507T152027_D001	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_220210507T153451_20210507T155941_D001	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_220210507T160941_20210507T161015_D001	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_220210507T163336_20210507T165917_D001	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_220210507T171400_20210507T174040_D001	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_220210507T180637_20210507T183816_D001	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_220210507T190317_20210507T190908_D001	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_220210507T191603_20210507T191840_D001	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_220210507T192108_20210507T192112_D001	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_220210507T194340_20210507T201721_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210507T203211_20210507T205022_D001	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_220210507T205543_20210507T205935_D001	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_220210507T212310_20210507T213212_D001	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_220210507T213228_20210507T215053_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210507T215103_20210507T215617_D001	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_220210507T221155_20210507T223901_D001	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_220210507T224557_20210507T224653_D001	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_220210507T230253_20210507T231822_D001	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_220210507T232349_20210507T232901_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

Height Error (Retracker 2), Backscatter Error (Retracker 2)

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	170	170	170	0	0
SIR_SAR_1B	125	125	125	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_LRM_2	170	170	167	3	0
SIR_SAR_2	109	125	125	0	0
SIR_SIN_2	125	109	109	0	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	-	-
SIR_GDR_2_	14	14	14	14	14	14	14	14			

14

Test Description Key:		
Abbreviation	Test name	Details
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)
STRUCTURESIZEANDI	STRUCTURE_SIZE_AND_READ	Under investigation.

6.2 QCC Warnings

Product Type	AXSMMEOCI	-	-	-	-	-	-	
SIR_LRM_2_	3							
0								
	Test name			Details				
	AttributeXrefSlopeMo	delMustExistOverC	Continentallce	The xref_slope	_model is mandatory in LRI	M products over continental i	ce	
Abbreviation AXSMMEOCI	AttributeXrefSlopeMo	delMustExistOverC	Continentallce	The xref_slope	e_model is mandatory in LRI	V products over continental i	ce	

Number of products with missing QCC reports: