

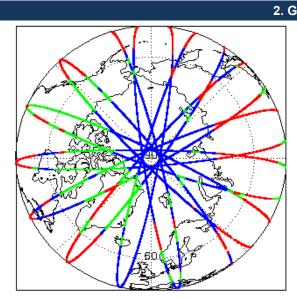
QA4EO Daily Report for OFFLINE data:

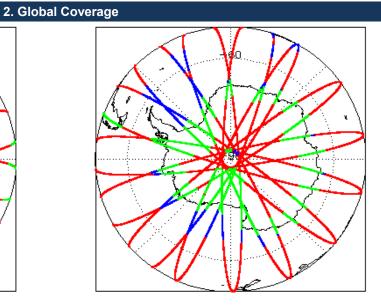
<u>10/02/2021</u>

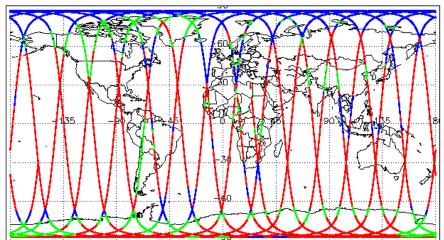
1. Overview

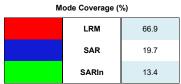
Dement Dreduction Deter	12-Mar-2021	Check	Status
Report Production Date:	12-Mar-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.	CryoSat Ice Processor	Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Useu.	LID and LZ 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

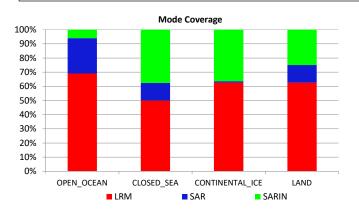
Alission / Instrument News					
09-Feb-2021	None				
10-Feb-2021	None				
11-Feb-2021	Nothing planned				

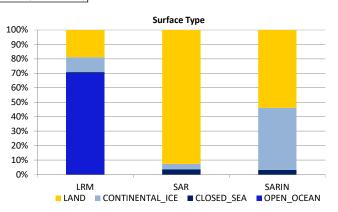












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210210T003317_20210210T003320_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T003325_20210210T003956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T004027_20210210T004331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T004844_20210210T005024_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T005515_20210210T005518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T005518_20210210T005537_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T012641_20210210T014912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T021704_20210210T022416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T022459_20210210T022939_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T025136_20210210T025227_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043006_20210210T043034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043038_20210210T043039_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043043_20210210T043055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043058_20210210T043115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043117_20210210T043125_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043130_20210210T043135_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043138_20210210T043141_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043144_20210210T043201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043204_20210210T043244_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043608_20210210T043609_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043612_20210210T043616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043619_20210210T043633_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T043647_20210210T044914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T045118_20210210T050707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T052313_20210210T053333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T053439_20210210T053705_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T053952_20210210T055106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T060849_20210210T061201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061203_20210210T061235_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061238_20210210T061313_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061320_20210210T061322_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061325_20210210T061344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061350_20210210T061359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061401_20210210T061749_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061751_20210210T061809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T061812_20210210T062232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T065345_20210210T065451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T065931_20210210T073326_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T074728_20210210T075244_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T075249_20210210T075303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T075307_20210210T075316_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20210210T075318 20210210T075518 D001 CS OFFL SIR LRM 1B 20210210T075627 20210210T075713 D001 CS OFFL SIR LRM 1B 20210210T080118 20210210T082556 D001 CS_OFFL_SIR_LRM_1B_20210210T082849_20210210T083221_D001 CS OFFL SIR LRM 1B 20210210T083243 20210210T083612 D001 CS_OFFL_SIR_LRM_1B_20210210T083828_20210210T090721_D001 CS OFFL SIR LRM 1B 20210210T090732 20210210T090734 D001 CS OFFL SIR LRM 1B 20210210T090737 20210210T090750 D001 CS OFFL SIR LRM 1B 20210210T093002 20210210T100501 D001 CS OFFL SIR LRM 1B 20210210T101143 20210210T101511 D001 CS OFFL SIR LRM 1B 20210210T111228 20210210T111312 D001 CS_OFFL_SIR_LRM_1B_20210210T111511_20210210T111608_D001 CS_OFFL_SIR_LRM_1B_20210210T111614_20210210T111645_D001 CS_OFFL_SIR_LRM_1B_20210210T111648_20210210T112528_D001 CS OFFL SIR LRM 1B 20210210T112902 20210210T113445 D001 CS_OFFL_SIR_LRM_1B_20210210T114632_20210210T115209_D001 CS_OFFL_SIR_LRM_1B_20210210T124724_20210210T124730_D001 CS_OFFL_SIR_LRM_1B_20210210T125055_20210210T125132_D001 CS_OFFL_SIR_LRM_1B_20210210T125155_20210210T125206_D001 CS_OFFL_SIR_LRM_1B_20210210T125217_20210210T125222_D001 CS_OFFL_SIR_LRM_1B_20210210T125632_20210210T125813_D001 CS_OFFL_SIR_LRM_1B_20210210T125956_20210210T130326_D001 CS OFFL SIR LRM 1B 20210210T132556 20210210T133105 D001 CS_OFFL_SIR_LRM_1B_20210210T141231_20210210T141307_D001 CS OFFL SIR LRM 1B 20210210T141309 20210210T141309 D001 CS_OFFL_SIR_LRM_1B_20210210T141311_20210210T141313_D001 CS_OFFL_SIR_LRM_1B_20210210T141315_20210210T141332_D001 CS OFFL SIR LRM 1B 20210210T141334 20210210T141337 D001 CS OFFL SIR LRM 1B 20210210T141340 20210210T141345 D001 CS OFFL SIR LRM 1B 20210210T143543 20210210T144003 D001 CS OFFL SIR LRM 1B 20210210T144059 20210210T145835 D001 CS_OFFL_SIR_LRM_1B_20210210T151657_20210210T153331_D001 CS OFFL SIR LRM 1B 20210210T155114 20210210T155118 D001 CS_OFFL_SIR_LRM_1B_20210210T155120_20210210T155124_D001 CS OFFL SIR LRM 1B 20210210T155126 20210210T155140 D001 CS_OFFL_SIR_LRM_1B_20210210T155142_20210210T155148_D001 CS OFFL SIR LRM 1B 20210210T155150 20210210T155157 D001 CS_OFFL_SIR_LRM_1B_20210210T155200_20210210T155209_D001 CS_OFEL_SIR_LRM_1B_20210210T155213_20210210T155236_D001 CS OFFL SIR LRM 1B 20210210T155240 20210210T155255 D001 CS OFFL SIR LRM 1B 20210210T155300 20210210T155310 D001 CS OFFL SIR LRM 1B 20210210T155314 20210210T155335 D001 CS_OFFL_SIR_LRM_1B_20210210T155337_20210210T155344_D001 CS_OFFL_SIR_LRM_1B_20210210T162525_20210210T163913_D001 CS OFFL SIR LRM 1B 20210210T164719 20210210T164919 D001 CS_OFFL_SIR_LRM_1B_20210210T165602_20210210T171141_D001 CS OFFL SIR LRM 1B 20210210T171343 20210210T172306 D001 CS_OFFL_SIR_LRM_1B_20210210T172602_20210210T172631_D001 CS OFFL SIR LRM 1B 20210210T172634 20210210T172640 D001 CS_OFFL_SIR_LRM_1B_20210210T172642_20210210T172747_D001 CS_OFFL_SIR_LRM_1B_20210210T172749_20210210T172833_D001 CS_OFFL_SIR_LRM_1B_20210210T172837_20210210T172845_D001 CS_OFFL_SIR_LRM_1B_20210210T172847_20210210T172852_D001 CS_OFFL_SIR_LRM_1B_20210210T172854_20210210T172858 D001 CS OFFL SIR LRM 1B 20210210T172901 20210210T172952 D001 CS_OFFL_SIR_LRM_1B_20210210T172955_20210210T173330_D001 CS OFFL SIR LRM 1B 20210210T174833 20210210T174906 D001 CS_OFFL_SIR_LRM_1B_20210210T175059_20210210T180226_D001 CS_OFFL_SIR_LRM_1B_20210210T180829_20210210T180835_D001 CS OFFL SIR LRM 1B 20210210T182529 20210210T183324 D001 CS_OFFL_SIR_LRM_1B_20210210T185904_20210210T190020_D001 CS_OFFL_SIR_LRM_1B_20210210T190415_20210210T190526_D001 CS OFFL SIR LRM 1B 20210210T190529 20210210T190541 D001 CS_OFFL_SIR_LRM_1B_20210210T190546_20210210T190648_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_20210210T190651_20210210T190654_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T190656_20210210T190705_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T190708_20210210T190709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T190712_20210210T190723_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T190725_20210210T190758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T190802_20210210T190832_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T190835_20210210T191303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T192754_20210210T200133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T200359_20210210T200610_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T200632_20210210T201214_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T201436_20210210T204012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T204914_20210210T204950_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T205040_20210210T205042_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T210348_20210210T210430_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T210553_20210210T210840_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T211140_20210210T211217_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T211220_20210210T214011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T215326_20210210T222125_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T222128_20210210T222209_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T222212_20210210T222248_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T222301_20210210T222307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T222309_20210210T222553_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T222626_20210210T222847_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T234217_20210210T234827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210210T234941_20210210T235624_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

0

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: 0

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.

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:
 0

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:

BLOR LEG CONTRACTOR Beneficiant of production of produ	Product	Test Failed	Description
Bit Processing Constraints Constraints <thconstraints< th=""> Constraints <thconstrain< td=""><td>CS_OFFL_SIR_LRM_220210209T233505_20210210T001008_D001</td><td></td><td></td></thconstrain<></thconstraints<>	CS_OFFL_SIR_LRM_220210209T233505_20210210T001008_D001		
B, DFL, SHL, LINK Z, 2001/20107012224, 220102107012227, D001 Intro (Retucker 7) Intro is a height and backsoather error for Retucker 2 for one or more encode. SB, OFFL, SHL, LINK Z, 2001/2010701224, 220102107012220, D001 Legit (Retucker 7) Intro is a height and backsoather error for Retucker 2 for one or more encode. SB, OFFL, SHL, LINK Z, 2001/20101012012, D001 Legit (Retucker 7) Intro is a height and backsoather error for Retucker 2 for one or more encode. SB, OFFL, SHL, LINK Z, 2001/20101014012, 200101014012, D001 Legit (From (Retucker 7), Retucker 1) Intro is a height and backsoather error for Retucker 2 and a height error (Retucker 7). SB, OFFL, SHL, LINK Z, 2001/201010120141, 20010010101402, D001 Legit (From (Retucker 7), Backsoather error for Retucker 2 and a height error (Retucker 7). Inter is a height and backsoather error for Retucker 2 and a height error (Retucker 7). SB, OFFL, SHL, LINK Z, 2001/20107022459, 200100107022459, D001 Legit (From (Retucker 7). Three is a height and backsoather error for Retucker 2 and a height error (Retucker 7). SB, OFFL, SHL, LINK Z, 2001/20107022459, 200100107022527, D001 Safatee Model Unevalued No DEM or Stope Model was used for the location of one or more encode. SB, OFFL, SHL, LINK Z, 2001/20107022459, 200100107022527, D001 Safatee Model Unevalued No DEM or Stope Model was used for the location of one or more encode. SB, OFFL, SHL, LINK Z, 2001/20107024550, 2001001002001, D001 Legit (From (Retucker 7), Lacatocation or more more records. SoffL, SHL, LINK Z, 2001/2010704501, 200101002002, D001	CS_OFFL_SIR_LRM_2_20210210T004844_20210210T005024_D001		-
P., PFL_SR_LDML_2_02002017010442_020100100421_0000 Enror (Relaceder 2) seconds SS_OFFL_SR_LRML_2_02002017010451_020100100550_D001 Relaceder 2) Seconds There is a height and backstatter enror for Relaceder 2 for one or more moonthing SS_OFFL_SR_LRML_2_02012017010451_0201011002011_D0010 Registrices 2) Seconds There is a height and backstatter enror for Relaceder 2 and a height enror (Relaceder 2) SS_OFFL_SR_LRML_2_020120170104017_00107_00100_D0010 Registrices 2) Seconds There is a height and backstatter enror for Relaceder 2 for one or more records SS_OFFL_SR_LRML_2_020120170104017_020101_D0011020110_D0010 Registrices 2) Seconds There is a height and backstatter enror for Relaxeder 2 for one or more records SS_OFFL_SR_LRML_2_020120170120409_020101020101020110_D0010 Registrices 2) Seconds There is a height and backstatter enror for Relaxeder 2 for one or more records SS_OFFL_SR_LRML_2_02012017022049_0201010020310_D0010 Registrices 2) Seconds There is a height and backstatter enror for Relaxeder 2 and a height enror (Relaxeder 2) SS_OFFL_SR_LRML_2_02012017020309_020120101020310_D0010 Seconds Seconds There is a height and backstatter enror for Relaxeder 2 and a height enror TRERASHOP 2 SS_OFFL_SR_LRML_2_02012017020309_020120101003409_D0010 Seconds Seconds There is a height and	CS_OFFL_SIR_LRM_220210210T005838_20210210T0101116_D001		
Env (Retader 2) income secols	CS_OFFL_SIR_LRM_2_20210210T010224_20210210T010227_D001		
S., OFR_SR_LEMS_2_302102107012814_020100114912_0001 Register Envir Inter the antight and backbacket environs SS_OFR_SR_LEMS_2_30210210702107_20107021016_00010 Register Environs There is a height and backbacket environs SS_OFR_SR_LEMS_2_30210210702107_2010702106_00010 Register Environs There is a height and backbacket environs SS_OFR_SR_LEMS_2_30210210702106_0010702246_0001 Register Environs There is a height and backbacket environs SS_OFR_SR_LEMS_2_30210210702246_0001 Register Environs There is a height and backbacket environs SS_OFR_SR_LEMS_2_30210210702246_0001 Register Environs There is a height and backbacket environs SS_OFR_SR_LEMS_2_30210210702246_00010 Safase Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFR_SR_LEMS_2_30210210702560_20210010702560_0001 Register Environs There is a height and backbacket environs There is a height a	CS_OFFL_SIR_LRM_2_20210210T011519_20210210T012355_D001		
B., DFH_SHCLPM_2_021021010201704_202102107022419_D001 Error (Retrader 2) records SB_OFFL_SIR_LEN_2_02102107021704_202102107022419_D001 Height Error (Retrader 2) There is a height and backscatter error for Retracker 2 for one or more records SB_OFFL_SIR_LEN_2_02102107022138_022102107022329_D001 Height Error (Retrader 2) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) SB_OFFL_SIR_LEN_2_022102107025138_022102107025292_D001 Surface Model Unavailable No DEM or Stope Model was used for the location of one or more records SB_OFFL_SIR_LEN_2_022102107025138_0221021070352752_D001 Height Error (Retracker 2) Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) SB_OFFL_SIR_LEN_2_020102107034201_002107034201_D001 Height Error (Retracker 2). Backscatter Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). So Crept_SIR_LEN_2_020102107034201_002107034201_D001 Height Error (Retracker 2). Backscatter Error There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LEN_2_020102107043042_02107043015_D001 Surface Model Unavailable No DEM or Stope Model was used for the location of one or more records SS_OFFL_SIR_LEN_2_020102107043047_02102107043015_D001 Surface Model Unavailable No DEM or Stope Model was used for the location of one or more records <t< td=""><td>CS_OFFL_SIR_LRM_2_20210210T012641_20210210T014912_D001</td><td>(Retracker 3), Backscatter Error</td><td></td></t<>	CS_OFFL_SIR_LRM_2_20210210T012641_20210210T014912_D001	(Retracker 3), Backscatter Error	
PS, DFFL_SIR_LEM_2_02102101027149_202102101022089_0001 Enror (Retracker 2) records SS_OFFL_SIR_LEM_2_02102101022459_202102101022090_0001 Refine Enror (Retracker 2) No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LEM_2_02102101022509_002102100220272_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LEM_2_0210210102509_01202107032592_D001 Height Enror (Retracker 2) Height Enror (Retracker 2) SS_OFFL_SIR_LEM_2_0210210102509_01202107034291_D001 Height Enror (Retracker 2) Enror (Retracker 2) SS_OFFL_SIR_LEM_2_02102101034594_202102101034291_D001 Height Enror (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LEM_2_02102101034594_20210210104105 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LEM_2_02102101043364_202102101043115_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LEM_2_0210210104344_20210210104301 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LEM_2_0210210104344_20210210104391 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LEM_2_02102101	CS_OFFL_SIR_LRM_2_20210210T020137_20210210T021516_D001		
Sp. OFFL_SIR_LEM_2_20210210702259_202102107022539_D001 IRearrader 2) Index 5 a height and backstature error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 2, and a height error (Retracker 2) Sp. OFFL_SIR_LEM_2_202102107025198_202102107025227_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Sp. OFFL_SIR_LEM_2_20210210702508_202102107032752_D001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error for Retracker 2) and a height error (Retracker 2) Sp. OFFL_SIR_LEM_2_202102107034564_202102107034752_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2) and a height error for Retracker 2) and solution of one or more records Sp. OFFL_SIR_LEM_2_202102107034564_202102107034751_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2) for one or more records Sp. OFFL_SIR_LEM_2_202102107034564_202102107041606_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2) for one or more records Sp. OFFL_SIR_LEM_2_202102107043686_202102107043115_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Sp. OFFL_SIR_LEM_2_202102107043647_202102107043014_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records Sp. OFFL_SIR_LEM_2_20210210704314_D201001003775_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error	CS_OFFL_SIR_LRM_2_20210210T021704_20210210T022416_D001		
Height Error (Retracker 2), Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error SS_OFFL_SIR_LRM_2_20210210T034201_20210210T034251_D001 Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T034261_20210210T034251_D001 Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T034564_20210210T041606_D001 Height Error (Retracker 2) Backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T043068_20210210T043115_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LRM_2_20210210T043047_20210210T04314_20210210T04314_0D011 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T043144_20210210T04314_D0011 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T043148_20210210T050707_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 3 and a height error for Retracker 2 and a height error for Retracker 2 and a height error free reacker 3 for one or more records SS_OFFL_SIR_LRM_2_20210210T053362_20210210T055333_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records S	CS_OFFL_SIR_LRM_2_20210210T022459_20210210T022939_D001	(Retracker 3), Backscatter Error	
Sg. OFFL_SIR_LRM_2_20210210703558_20210210703752_D001 (Refracker 2) Backscatter Error (Refracker 2) Intelline is a height and backscatter error for Retracker 2 and a height error (Refracker 2) Sg_OFFL_SIR_LRM_2_202102107034201_202107034251_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 Sg_OFFL_SIR_LRM_2_202102107034564_202102107041606_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records Sg_OFFL_SIR_LRM_2_202102107043164_202102107043115_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Sg_OFFL_SIR_LRM_2_202102107043144_20210210704301_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Sg_OFFL_SIR_LRM_2_202102107043647_202102107044914_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records Sg_OFFL_SIR_LRM_2_202102107045118_202102107050707_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) Sg_OFFL_SIR_LRM_2_202102107052313_20210210705333_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) Sg_OFFL_SIR_LRM_2_202102107055308_202102107055443_D001 Surface Model U	CS_OFFL_SIR_LRM_2_20210210T025136_20210210T025227_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Signed Fill Error (Retracker 2) records Signed Fill Signed Fill Error (Retracker 2) Records Signed Fill Signed Fill Error (Retracker 2) Backscatter Fill Signed Fill Signed Fill Signed Fill Signed Fill Fill Fill Signed Fill	CS_OFFL_SIR_LRM_2_20210210T025508_20210210T032752_D001	(Retracker 3), Backscatter Error	
S_OFFL_SIR_LRM_2_202102101043658_202102101043115_D001 Error (Retracker 2) records SS_OFFL_SIR_LRM_2_20210210T043058_20210210T043115_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LRM_2_20210210T043144_20210210T043201_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LRM_2_20210210T043647_20210210T043901_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T043647_20210210T050707_D001 (Retracker 2), Backscatter Error (Retracker 3), 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 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retra	CS_OFFL_SIR_LRM_2_20210210T034201_20210210T034251_D001		
SS_OFFL_SIR_LRM_2_20210210T043144_20210210T043201_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LRM_2_20210210T043647_20210210T044914_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 SS_OFFL_SIR_LRM_2_20210210T045118_20210210T050707_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error retords SS_OFFL_SIR_LRM_2_20210210T052313_20210210T053333_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T053952_20210210T055106_D001 Height Error (Retracker 2), 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 SS_OFFL_SIR_LRM_2_20210210T055303_20210210T055443_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LRM_2_20210210T062656_20210210T062939_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T063318_20210210T064551_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T063318_20210210T064551_D001 <td>CS_OFFL_SIR_LRM_2_20210210T034554_20210210T041606_D001</td> <td></td> <td></td>	CS_OFFL_SIR_LRM_2_20210210T034554_20210210T041606_D001		
Image: Control of the standard	CS_OFFL_SIR_LRM_220210210T043058_20210210T043115_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
SS_OFFL_SIR_LRM_2_20210210104394/_202102100064491_20001 Error (Retracker 2) records SS_OFFL_SIR_LRM_2_20210210T045118_20210210T050707_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) SS_OFFL_SIR_LRM_2_20210210T052313_20210210T053333_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T062656_20210210T0626399_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T063118_20210210T064551_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Re	CS_OFFL_SIR_LRM_220210210T043144_20210210T043201_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
SS_OFFL_SIR_LRM_2_20210210T045118_20210210T050707_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 Error (Retracker 2) SS_OFFL_SIR_LRM_2_20210210T052313_20210210T053333_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210T062656_20210210T062939_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 SS_OFFL_SIR_LRM_2_20210210T063118_20210210T064551_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error records SS_OFFL_SIR_LRM_2_20210210T065931_20210210T063931_20210210T073326_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error for Retracker 3, Backscatter Error	CS_OFFL_SIR_LRM_220210210T043647_20210210T044914_D001		5
ES_OFFL_SIR_LRM_2_202102101052313_202102101053333_D001 Error (Retracker 2) records SS_OFFL_SIR_LRM_2_202102101053352_202102101055306_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error for Retracker 3), Backscatter Error for Retracker 3), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 2) SS_OFFL_SIR_LRM_2_202102101055303_202102101055443_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records SS_OFFL_SIR_LRM_2_202102101062656_202102101062939_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_202102101063118_202102101064551_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_20210210106391_202102101064551_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_2_202102101065931_202102100703326_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210210T045118_20210210T050707_D001	(Retracker 3), Backscatter Error	
SS_OFFL_SIR_LRM_2_20210210T053952_20210210T055106_D001 (Retracker 3), Backscatter Error (Retracker 2) Intere is a height and backscatter error for Retracker 2 and a neight error for Retracker 3 are provided and backscatter error for Retracker 2 and a neight error for Retracker 3 are provided and backscatter error for Retracker 2 and a neight error for Retracker 3 are provided and backscatter error for Retracker 2 and a neight error for Retracker 3 are provided and backscatter error for Retracker 2 and a neight error for Retracker 3 are provided and backscatter error for Retracker 2 and a neight error for Retracker 3 are provided and backscatter error for Retracker 2 and a neight error for Retracker 3 are provided and backscatter error for Retracker 2 and a neight error for Retracker 3	CS_OFFL_SIR_LRM_220210210T052313_20210210T053333_D001	5	
CS_OFFL_SIR_LRM_2_20210210T062656_20210210T062939_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210210T063118_20210210T064551_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210210T063118_20210210T064551_D001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210210T065931_20210210T073326_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210210T053952_20210210T055106_D001	(Retracker 3), Backscatter Error	
SS_OFFL_SIR_LRM_2202102101062656_202102101062939_D001 Error (Retracker 2) records SS_OFFL_SIR_LRM_220210210T063118_20210210T064551_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records SS_OFFL_SIR_LRM_220210210T065931_20210210T073326_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error	CS_OFFL_SIR_LRM_2_20210210T055303_20210210T055443_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Error (Retracker 2) records SS_OFFL_SIR_LRM_2_202102101065931_202102101064551_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220210210T062656_20210210T062939_D001		-
S_OFFL_SIR_LRM_2_20210210T065931_20210210T073326_D001 (Retracker 3), Backscatter Error for Retracker 3 to no runor records	CS_OFFL_SIR_LRM_2_20210210T063118_20210210T064551_D001		
(Retracker 2)	CS_OFFL_SIR_LRM_2_20210210T065931_20210210T073326_D001		

CS_OFFL_SIR_LRM_220210210T073540_20210210T073631_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_220210210T080118_20210210T082556_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_220210210T083828_20210210T090721_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_220210210T093002_20210210T100501_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_220210210T101818_20210210T105253_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_220210210T111648_20210210T112528_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_220210210T114632_20210210T115209_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210210T115742_20210210T123126_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_220210210T124517_20210210T124614_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_220210210T130440_20210210T132419_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_220210210T133621_20210210T141115_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_220210210T141231_20210210T141307_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210210T143543_20210210T144003_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_220210210T144059_20210210T145835_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_220210210T151657_20210210T153331_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_220210210T153426_20210210T153633_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_220210210T153911_20210210T154622_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_220210210T155126_20210210T155140_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210210T155213_20210210T155236_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210210T160613_20210210T162410_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_220210210T162525_20210210T163913_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_220210210T165602_20210210T171141_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_220210210T171343_20210210T172306_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_220210210T175059_20210210T180226_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_220210210T183513_20210210T185048_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_220210210T190546_20210210T190648_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210210T192754_20210210T200133_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_220210210T200359_20210210T200610_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220210210T201436_20210210T204012_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_220210210T211220_20210210T214011_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_220210210T215326_20210210T222125_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_220210210T224600_20210210T231918_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

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	189	189	189	0	0
SIR_SAR_1B	116	116	116	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_LRM_2	189	189	185	4	0
SIR_SAR_2	109	113	113	0	0
SIR_SIN_2	113	109	105	4	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	-	-
SIR_GDR_2_	15	15	15	15	15	15	15	15			
0											

15

Test Description Key:	st 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)			
STRUCTURESIZEAND	STRUCTURE_SIZE_AND_READ	Under investigation.			

6.2 QCC Warnings

	orts with warnings			Total number of ecour	rences of each warning				
				Total number of occur	rences of each warning				
Product Type	AXDME	AXSMMEOCI	-	-	-	-	-		
SIR_LRM_2_	0	4							
SIR_SIN_2_	4	0							
			·						
est Description Key	r:								
bbreviation	Test name			Details	Details				
XDME	AttributeXrefDem	MustExist		The xref_den	The xref_dem attribute is mandatory in SIN products over continental ice				
XSMMEOCI	AttributeXrefSlop	eModelMustExistOverContine	ntallce	The xref_slop	The xref_slope_model is mandatory in LRM products over continental ice				
6.2 Missing QC	C Reports								
	with missing QC								