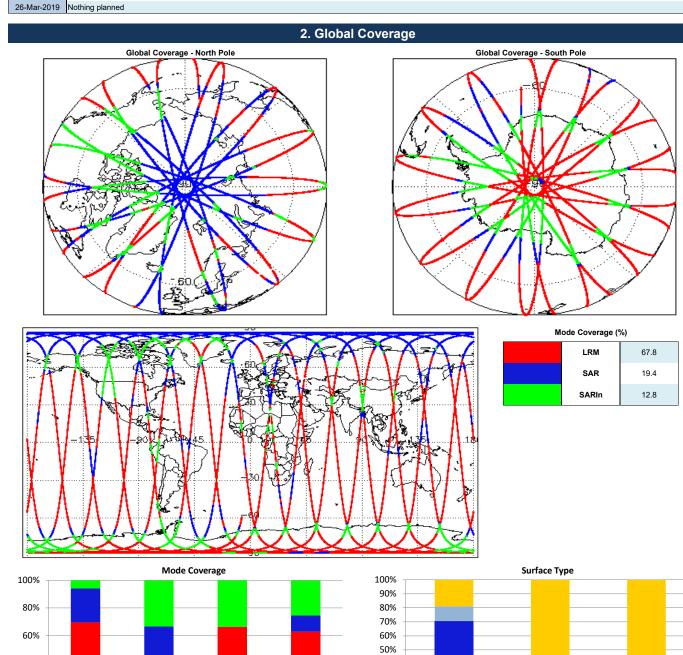


IDEAS+ Daily Report for OFFLINE data:

<u>25/03/2019</u>

Report Production Date:	26-Apr-2019	Check	Status	
Report Production Date.	20-Api-2019	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor used.		Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Used:		Product Header Analysis	Nominal	
•		Star Tracker Usage Check	Nominal	
		L1B Calibration Usage Check	Nominal	
		L1B & L2 Auxiliary Data File Usage Check	Nominal	
		L1B & L2 Auxiliary Correction Error Check	Nominal	
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5	
		·		
Mission / Instrument News				
24-Mar-2019 None				
25-Mar-2019 None				

1. Overview



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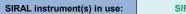
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4. Level 1B Data Quality Check

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: 0

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

Number of products with errors: 0

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing. Number of products with errors: 0

4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors:

 Product
 Test Failed

 CS_0FFL_SIR_LRM_1B_20190325T030256_20190325T031742_C001
 Echo error, TRK echo error

1

Description The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL) Number of products with errors: 0

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:

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_220190325T000336_20190325T000832_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190325T001347_20190325T004717_C001	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_220190325T011152_20190325T013610_C001	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_220190325T015420_20190325T020136_C001	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_220190325T020143_20190325T021029_C001	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_2_20190325T021032_20190325T021157_C001	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_220190325T021638_20190325T022456_C001	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_220190325T024507_20190325T030041_C001	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_220190325T030256_20190325T031742_C001	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_220190325T033325_20190325T034826_C001	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_220190325T035005_20190325T041047_C001	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_220190325T042802_20190325T043746_C001	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_220190325T044449_20190325T050004_C001	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_220190325T051251_20190325T053553_C001	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_220190325T060148_20190325T060208_C001	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_220190325T061157_20190325T063905_C001	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_220190325T064415_20190325T064909_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190325T065154_20190325T071750_C001	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_220190325T075041_20190325T080037_C001	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_220190325T080615_20190325T081811_C001	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_220190325T083103_20190325T085936_C001	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_220190325T090730_20190325T090925_C001	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_220190325T092225_20190325T095718_C001	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_220190325T110214_20190325T111045_C001	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_220190325T111331_20190325T113636_C001	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_220190325T114833_20190325T120202_C001	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_220190325T120349_20190325T120949_C001	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_220190325T121153_20190325T121622_C001	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_220190325T124054_20190325T131432_C001	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

DRUGTURE DR	CS_OFFL_SIR_LRM_220190325T133242_20190325T140340_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	CS_OFFL_SIR_LRM_220190325T142344_20190325T143125_C001	Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
CHAL SHE LEW 2. 2019221114224.001 Registry Lew 12 second near the financial 2 second	CS_OFFL_SIR_LRM_220190325T143604_20190325T143657_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Image: Interpretation Image: Interpretation Image: Interpretation 0.1.0PTL_BIL_LEX_2014000T116002_0100000T10100_00011 Expert Interpretation Items to induct on the backconse on the financial of the one of the one of the one of the one of the backconse one	CS_OFFL_SIR_LRM_220190325T143700_20190325T145353_C001	Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
Display Display <t< td=""><td>CS OFFL SIR LRM 2 20190325T151032 20190325T152422 C001</td><td>Height Error (Retracker 2), Backscatter</td><td>There is a height and backscatter error for Retracker 2 for one or more</td></t<>	CS OFFL SIR LRM 2 20190325T151032 20190325T152422 C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Laborational Intervaluation of the second of the secon	CS OFFL SIR LRM 2 20190325T152635 20190325T153807 C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
$ \sum_{i=1}^{n} (\mu_{i}, \mu_{i}, $		Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Clin Contrul, Sing Land, Z., 20190325119054, 20190325129054, 2019032512919044, 201900325129154, 201903251291540, 20190325129154		Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CB CPTL_SRI_UN_2_20193251710360_20190251710300_001 Magtif Error (Bittakan 2) Magtif Error There is a height and backsadte error for Relatabar 2 and a height error (Bittakan 2) Magtif Error (Bittakan 2)		Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Description Description Description C6, OFTL, SIR, LAM, 2., 201400251117226, 201402251177260, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025251177760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 20140255117777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 20140255117777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 201402551177760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 2014025511777760, 201402551177760, 20140		Height Error (Retracker 2), Height Error	
CH, URL SH, LIMU 2, 201900251192200, 2019002511920000, 201900251192000, 201900251192000, 2019002511920		(Retracker 2)	
Displant Displant Figure and a structure of the str	CS_OFFL_SIR_LRM_2201903251171256_201903251171953_C001	Error (Retracker 2)	records
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Call, EPFL, SPL, CRR, LEW, 2201003251102534, 201003251105134, C001 Enrici (Relataker 2) reacts CS, DFFL, SIR, LEW, 220100325110534, 201003251105134, C001 Key (Perl Thriv (Relataker 2), Badscatter Enrici (Relataker 2), Badscatter There is a height and backscatter error for Relataker 2 for one or more records CS, DFFL, SIR, LEW, 2201003251105130, 01000251200154, C001 Error (Relataker 2), Badscatter There is a height and backscatter error for Relataker 2 for one or more records CS, DFFL, SIR, LEW, 2201003251201572, 01000251201542, C001 Height Error (Relataker 2), Badscatter There is a height and backscatter error for Relataker 2 for one or more records CS, DFFL, SIR, LEW, 22010032512113510, 2010032512113840, C001 Earlier (Relataker 2), Contexe Contexe Contexe Error (Relataker 2) There is a height and backscatter error for Relataker 2 for one or more records CS, DFFL, SIR, LEW, 2201003251213810, 201003251221783, C001 Earlier (Relataker 2) Height Error (Relataker 2) Height Error (Relataker 2) CS, DFFL, SIR, LEW, 2201003251213810, 201003251221783, C001 Height Error (Relataker 2) Height Error (Relataker 2) Height Error (Relataker 2) CS, DFFL, SIR, LEW, 2201003251203500, 201003251223750, C001 Height Error (Relataker 2) Height Error (Relataker 2) There is height and backscatter error for Relataker 2 for one or more records CS, DFFL, SIR, LEW, 2201003251203500, 20100325120	CS_OFFL_SIR_LRM_220190325T174904_20190325T181217_C001	Error (Retracker 2)	records
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Dis. Desk Desk <thdesk< th=""> Desk Desk <thd< td=""><td>CS_OFFL_SIR_LRM_220190325T192534_20190325T195134_C001</td><td></td><td>-</td></thd<></thdesk<>	CS_OFFL_SIR_LRM_220190325T192534_20190325T195134_C001		-
CS_OFFL_SIR_LRM_2_20190325120202_20190325120389_C001 Enror (Retracker 2) records CS_OFFL_SIR_LRM_2_20190325120202_20190325120389_C001 Height Enror (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more erecords CS_OFFL_SIR_LRM_2_201903251210157_201903251213856_C001 Surface Model Unavailable No DEM or Supe Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190325121310_201903251213856_C001 Surface Model Unavailable No DEM or Supe Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190325122330_2019032512213856_C001 Height Enror (Retracker 2), Height Enror There is a height and backscatter error for Retracker 2 and a height enror (Retracker 2), CPFL_SIR_LRM_2_20190325122530_20190325122350_10001 Height Enror (Retracker 2), Backscatter CS_OFFL_SIR_LRM_2_20190325122330_201903251231102_C001 Height Enror (Retracker 2), Height Enror There is a height and backscatter error for Retracker 2 and a height enror (Retracker 2), Subscatter CS_OFFL_SIR_LRM_2_20190325123306_201903251231102_C001 Height Enror (Retracker 2), Height Enror There is a height and backscatter error for Retracker 2 and a height enror (Retracker 2), Height Enror CS_OFFL_SIR_LRM_2_20190325120306_201903251201164_C001 SARIN Xtrack Angle Enror There is a height and backscatter error for Retracker 2 and a height enror (Retracker 2), Height Enror CS_OFFL_SIR_SIN_2_201903251700403_201903251701442_C001 SARIN Xtr	CS_OFFL_SIR_LRM_220190325T195829_20190325T200156_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190325T210157_20190325T211942_0001 Endr (Retracker 2) records CS_OFFL_SIR_LRM_2_20190325T213310_20190325T213866_0001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190325T213310_20190325T21735_0001 Height Enror (Retracker 2), Height Enror There is a height and backscatter enror for Retracker 2 and a height enror CS_OFFL_SIR_LRM_2_20190325T22503_20190325T221753_0001 Height Enror (Retracker 2), Backscatter There is a height and backscatter enror for Retracker 2 and a height enror CS_OFFL_SIR_LRM_2_20190325T225054_20190325T221753_0001 Height Enror (Retracker 2), Backscatter There is a height and backscatter enror for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190325T225054_20190325T231102_0001 Height Enror (Retracker 2), Backscatter There is a height and backscatter enror for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190325T203205_20190325T234600_0001 Retracker 3) There is a height and backscatter enror for Retracker 2 and a height enror (Retracker 2), Height Enror (Retracker 2), Height Enror (Retracker 2), Height Enror (Retracker 2), Height Enror There is a height and backscatter enror for Retracker 2 and a height enror (Retracker 2), Height Enror CS_OFFL_SIR_SIN_2_20190325T2040222_0190325T204036_0001 SARIN X-track Angle Enror An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T010401_20190325T010430_0001<	CS_OFFL_SIR_LRM_220190325T200431_20190325T201624_C001		
CS_OFFL_SIR_LRM_2_20190325T213310_20190325T213856_0001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190325T214351_20190325T21753_0001 Keight Error (Retracker 2), Height Error (Retracker 2), Backstatte Error (Retracker 2), Error Retracker 2, and a height error (Retracker 2), Backstatte Error (Ret	CS_OFFL_SIR_LRM_220190325T202202_20190325T203850_C001		
Letter Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Error (Retracker 3), Backscatter Error (Retracker 3), Error (Retracker 2), Error (Retracker 3), Error (Retracker 2), Error (Retracker 3), Error (Retracker 2), Error (Retracker 2), Error (Retracker 3), Error (Retracker 2), Error (Retracker 3), Error (Retracker 2), Error (Retracker 2), Error (Retracker 3), Error (Retracker 2), Error (Retracker 2), Error (Retracker 2), Error (Retracker 3), Error (Retracker 3), Error (Retracker 3), Error (Retracker 3), Error (Retracker 2), Error (Retracker 2), Error (Retracker 3), Error (Retrac	CS_OFFL_SIR_LRM_2_20190325T210157_20190325T211942_C001		
CS_OFFL_SIR_LRM_2_20190325T214351_20190325T225303_20190325T225301_C001 (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190325T225003_20190325T225304_20190325T225304_20190325T225304_20190325T225304_20190325T225304_20190325T232306_20190325T232306_20190325T2324600_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Error (Retracker 2), Heig	CS_OFFL_SIR_LRM_220190325T213310_20190325T213856_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190325122300_201903251233102_0001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_201903251232306_201903251231102_0001 Height Error (Retracker 2) Backscatter Forror (Retracker 2, Leght Error (Retracker 2, Leght Error (Retracker 3, Backscatter Error Retracker 3, Backscatter Error Retracker 3, Backscatter Error (Retracker 3, Backscatter Error Retracker 3, Backscatter	CS_OFFL_SIR_LRM_220190325T214351_20190325T221753_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_201903251233102_C001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190325T232306_20190325T234600_C001 Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LRM_2_20190325T234745_20190325T235753_C001 Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_SIN_2_20190325T000222_20190325T000336_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T010401_20190325T010439_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014041_20190325T010439_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014041_20190325T014544_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014309_20190325T015403_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T023819_20190325T023840_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T023819_20190325T023840_C001 SARIN X-track Angle Error An ambi	CS_OFFL_SIR_LRM_220190325T225003_20190325T225351_C001		-
CS_OFFL_SIR_LRM_2_20190325T23206_20190325T234600_C001 IRetracker 3): Backscatter Error (Retracker 2) Index solution or more records CS_OFFL_SIR_LRM_2_20190325T234745_20190325T235753_C001 IRetracker 2): Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2): Export Error (Retracker 2): Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 2): CS_OFFL_SIR_SIN_2_20190325T000222_20190325T000356_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T000833_20190325T010454_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014041_20190325T014439_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T0144309_20190325T014544_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014737_20190325T014403_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T0242426_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T031826_20190325T032437_C001 SARIn X-track Angle Error An ambiguous	CS_OFFL_SIR_LRM_220190325T225354_20190325T231102_C001		0
CS_OFFL_SIR_LRM_2_20190325T234745_20190325T235753_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records CS_OFFL_SIR_SIN_2_20190325T000222_20190325T000336_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T000333_C0190325T010439_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T01401_20190325T010439_C001 SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T01401_20190325T010439_C001 SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014309_20190325T014544_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014309_20190325T014544_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014309_20190325T015403_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032437_C00	CS_OFFL_SIR_LRM_220190325T232306_20190325T234600_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_SIN_2_20190325T000222_20190325T000336_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T000833_20190325T001154_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T010401_20190325T010439_C001 SARIN X-track Angle Error, Surface An ambiguous angle was detected for SARIN mode and no DEM or Slope Model Unavailable CS_OFFL_SIR_SIN_2_20190325T014309_20190325T014544_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T014737_20190325T015403_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T023819_20190325T023940_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T023819_20190325T023940_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T03243	CS_0FFL_SIR_LRM_220190325T234745_20190325T235753_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	
CS_OFFL_SIR_SIN_2_201903251000833_201903251001154_C001 SARIN X-track Angle Error records CS_OFFL_SIR_SIN_2_20190325T01401_20190325T014039_C001 SARIN X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope CS_OFFL_SIR_SIN_2_20190325T014309_20190325T014544_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more CS_OFFL_SIR_SIN_2_20190325T014737_20190325T014544_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more CS_OFFL_SIR_SIN_2_20190325T014737_20190325T015403_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more CS_OFFL_SIR_SIN_2_20190325T023819_20190325T023940_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more CS_OFFL_SIR_SIN_2_20190325T031826_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more <td>CS_OFFL_SIR_SIN_220190325T000222_20190325T000336_C001</td> <td></td> <td></td>	CS_OFFL_SIR_SIN_220190325T000222_20190325T000336_C001		
CS_OFFL_SIR_SIN_2201903251010401_201903251010439_C001 Model Unavailable Model was used for one or more records CS_OFFL_SIR_SIN_220190325T014309_20190325T014544_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T014737_20190325T015403_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T023819_20190325T023940_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T024237_20190325T024426_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T031826_20190325T032437_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T032650_20190325T032437_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T032650_20190325T032733_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T032650_20190325T032733_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_220190325T033255_0001 SARIN X-track Angle Error An amb	CS_OFFL_SIR_SIN_220190325T000833_20190325T001154_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190325T014737_20190325T015403_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T023819_20190325T023940_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T031826_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T0332650_20190325T033273_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T0332650_20190325T033273_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_220190325T010401_20190325T010439_C001		
CS_OFFL_SIR_SIN_2_20190325T023819_20190325T023940_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T031826_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T03325T03325T03325T033255 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T03325T03325T03325T033255 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more CS_OFFL_SIR_SIN_2_20190325T03325T03325T03325T033255 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more	CS_OFFL_SIR_SIN_220190325T014309_20190325T014544_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T024237_20190325T024426_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T031826_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T03325T03325T03325T033255 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records	CS_0FFL_SIR_SIN_220190325T014737_20190325T015403_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190325T031826_20190325T032437_C001 SARIN X-track Angle Error records CS_OFFL_SIR_SIN_2_20190325T031826_20190325T032437_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T0332650_20190325T033255_001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_220190325T023819_20190325T023940_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190325T03325T03325T03325T033255_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more	CS_OFFL_SIR_SIN_220190325T024237_20190325T024426_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190325T032650_20190325T032733_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more	CS_OFFL_SIR_SIN_220190325T031826_20190325T032437_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
CS_OFEL_SIR_SIN_2_20100325T033150_20100325T033325_C001SARIn X-track Angle ErrorAn ambiguous angle was detected for SARIn mode for one or more	CS_OFFL_SIR_SIN_220190325T032650_20190325T032733_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
The records	CS_OFFL_SIR_SIN_220190325T033150_20190325T033325_C001	SARIn X-track Angle Error	

CS_OFFL_SIR_SIN_220190325T041738_20190325T041841_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T041918_20190325T042002_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T050037_20190325T050229_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T051053_20190325T051240_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T055650_20190325T060148_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220190325T064010_20190325T064129_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T064327_20190325T064415_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T064909_20190325T065131_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T072945_20190325T073023_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220190325T081936_20190325T082056_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T082129_20190325T082335_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T082934_20190325T083103_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T095925_20190325T100243_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T100805_20190325T100923_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T113817_20190325T114136_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T114659_20190325T114823_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T122501_20190325T122535_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220190325T122739_20190325T123034_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T131449_20190325T131643_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T132518_20190325T132652_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T140413_20190325T140517_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T140833_20190325T140933_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T145353_20190325T145532_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T150113_20190325T150118_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T150249_20190325T150457_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T154245_20190325T154452_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T154633_20190325T154847_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220190325T163306_20190325T163452_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T164011_20190325T164017_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T164027_20190325T164032_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T164135_20190325T164828_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T181232_20190325T181528_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T181909_20190325T181915_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T181925_20190325T181930_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T182231_20190325T182433_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220190325T195135_20190325T195310_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T195823_20190325T195829_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T200157_20190325T200322_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T205023_20190325T205056_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220190325T213145_20190325T213310_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T213857_20190325T213913_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T214058_20190325T214211_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T231112_20190325T231238_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190325T231749_20190325T232052_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode 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	159	159	159	0	0
SIR_LRM_2	157	157	157	0	0
SIR_LRMI2_	157	157	157	0	0
SIR_SAR_1B	117	117	117	0	0
SIR_SAR_2	117	117	117	0	0
SIR_SARI2_	117	117	117	0	0
SIR_SIN_1B	97	97	97	0	0
SIR_SIN_2	97	97	97	0	0
SIR_SINI2	97	97	97	0	0
SIR_GDR_2	15	15	15	0	0

6.1 QCC Errors

Number of products with QCC errors:

0

6.2 QCC Warnings				
Number of QCC reports with warnings	0			

6.2 Missing QCC Reports

Number of products with missing QCC reports: 198