







1. Overview

| Report Production Date: | 28-Apr-2023 |
|-------------------------|-------------------------|
| Processor Used: | CryoSat Ice Processor |
| Data Used: | L1B and L2 OFFLINE Data |

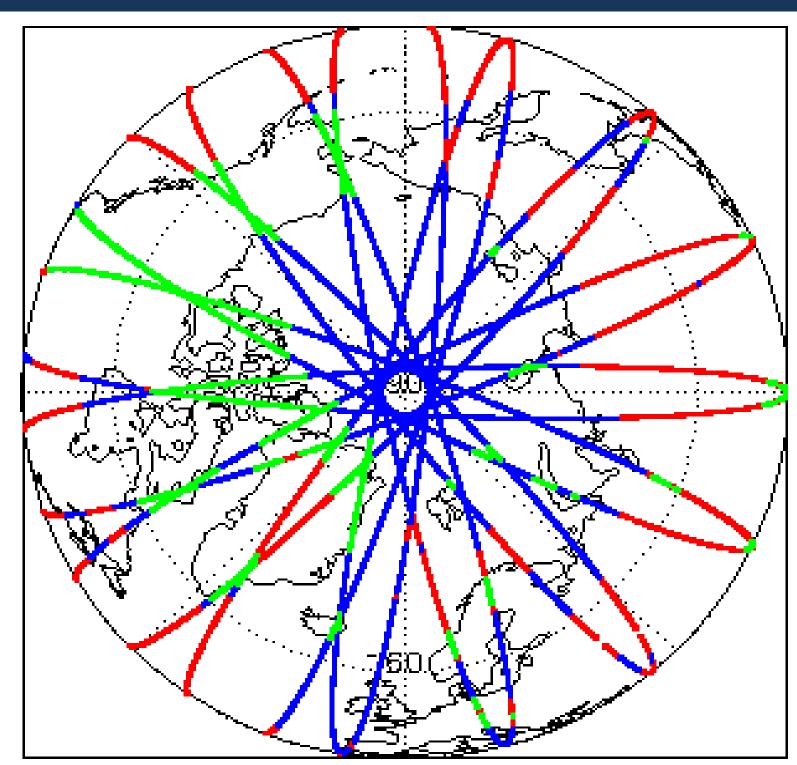
We would love to hear from you! Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to

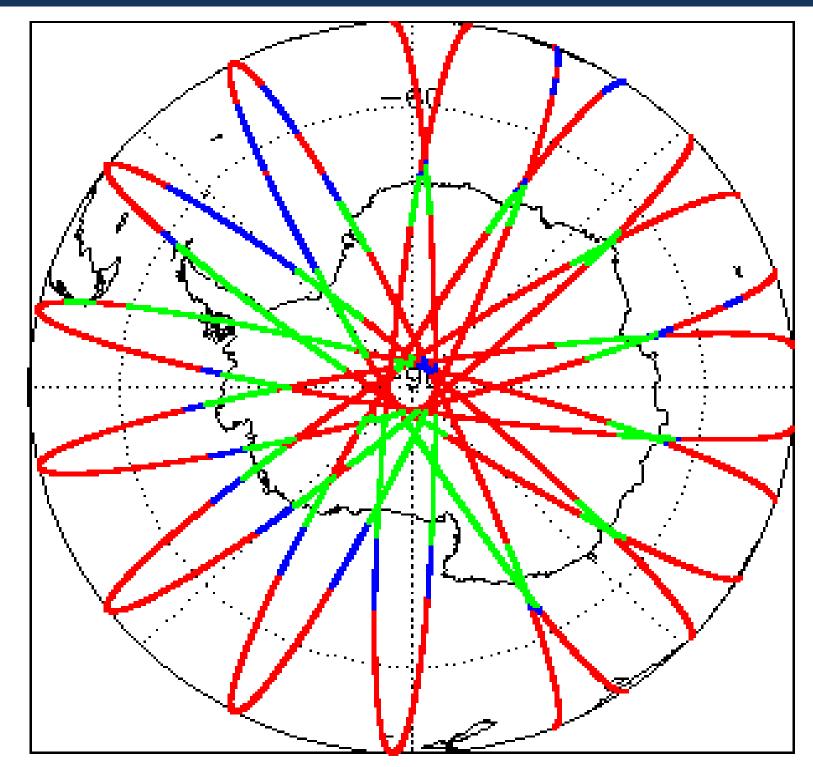
cs2_qc_team@telespazio.com

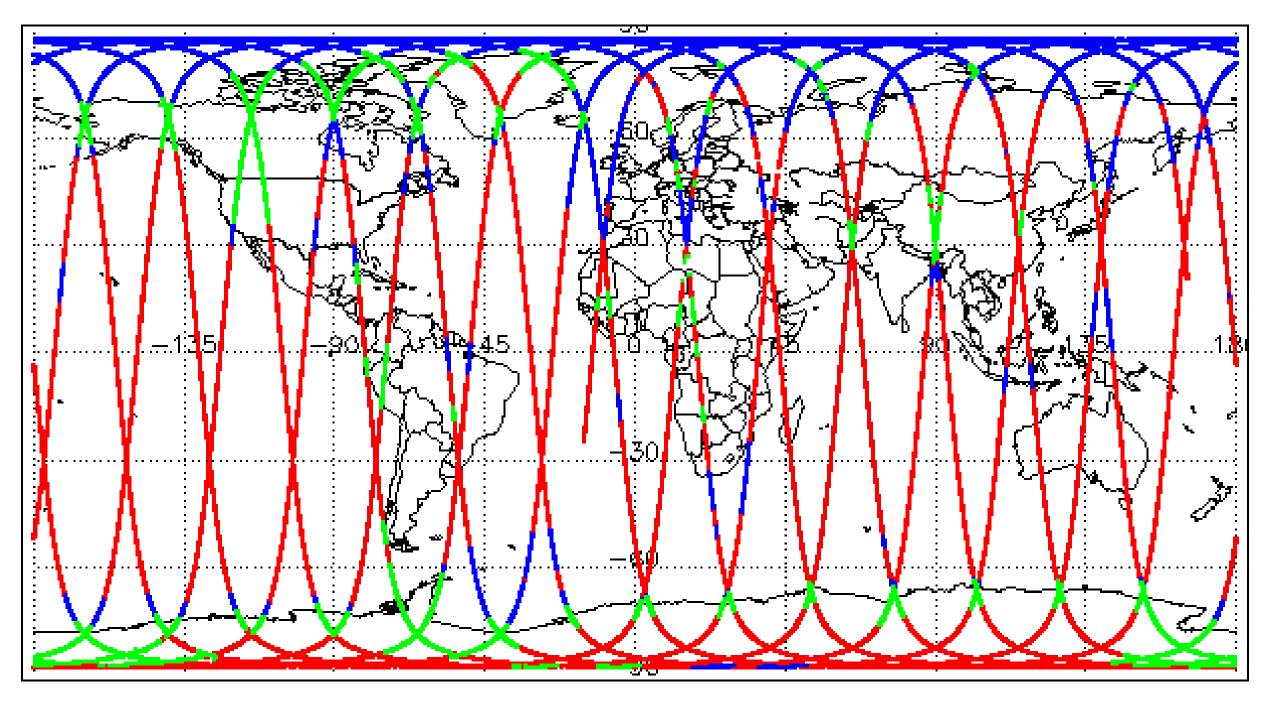
| Check | Status |
|--------------------------------------------|------------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | 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 | See Section 4.7 and 5.4 |
| L1B & L2 Measurement Confidence Data Check | See Section 4.8 and 5.5 |
| QCC Errors/ Warnings | See Section 6.1, 6.2 and 6.3 |

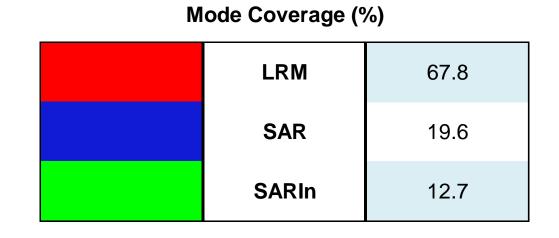
Mission / Instrument News 29-Mar-2023 None 30-Mar-2023 None 31-Mar-2023 Nothing planned

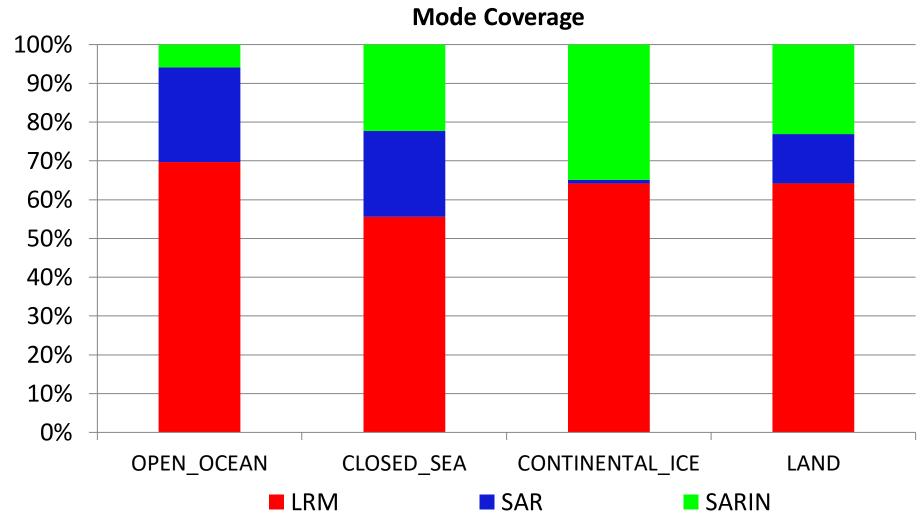
2. Global Coverage

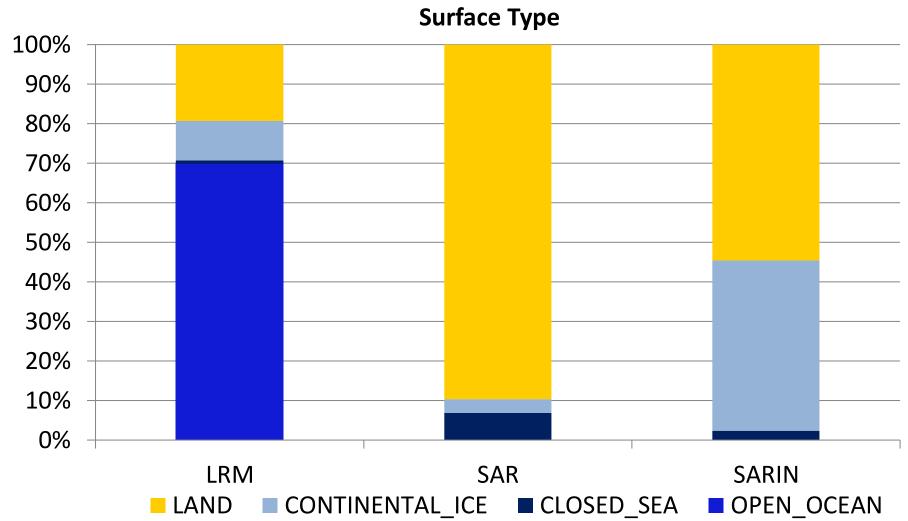












3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 L1B 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.

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

Number of products with errors: 110

| Product | Test Failed | Description |
|---------------------------------------------------------|--------------|------------------------------------------------------|
| CS_OFFL_SIR_LRM_1B_20230330T001116_20230330T001148_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T001151_20230330T001251_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T010651_20230330T010844_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T011526_20230330T013058_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T013100_20230330T013129_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T013132_20230330T013305_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T013746_20230330T014535_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T014552_20230330T014602_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T014604_20230330T014605_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T014609_20230330T014612_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T014859_20230330T015026_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T015031_20230330T015050_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T015055_20230330T015058_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T015101_20230330T015110_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T015113_20230330T015133_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T015135_20230330T015210_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T022402_20230330T023853_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T024544_20230330T024757_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T031114_20230330T032250_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T032254_20230330T032736_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T032741_20230330T033156_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T033253_20230330T033306_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T034612_20230330T034800_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T034918_20230330T035913_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T035917_20230330T035921_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T035923_20230330T040031_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T040033_20230330T040037_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T040040_20230330T040104_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T042336_20230330T043202_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T045809_20230330T045836_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T050223_20230330T050259_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T050404_20230330T050515_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T050517_20230330T050520_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T050524_20230330T050528_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T050533_20230330T051039_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T052255_20230330T052319_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T052556_20230330T053040_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T053300_20230330T053543_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T053545_20230330T053556_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T053558_20230330T053610_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T053612_20230330T060016_E001 | Loss of echo | The tracking echo is missing for one or more records |

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|-------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_LRM_1B_20230330T061632_20230330T063908_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T064039_20230330T064720_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T064720_20230330T064848_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T075214_20230330T082042_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T082044_20230330T082112_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T082312_20230330T082418_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T093959_20230330T094350_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T094456_20230330T094856_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T094945_20230330T094959_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T095001_20230330T095131_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T095315_20230330T095500_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T095644_20230330T095756_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T100229_20230330T100238_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T100250_20230330T100310_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T100548_20230330T100605_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T113300_20230330T113737_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T115934_20230330T120102_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T120208_20230330T123544_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T133805_20230330T133851_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T133857_20230330T133911_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T133914_20230330T133923_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T133914_20230330T133923_E001 CS_OFFL_SIR_LRM_1B_20230330T133926_20230330T133943_E001 | 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_20230330T133926_20230330T133943_E001 CS_OFFL_SIR_LRM_1B_20230330T133946_20230330T134004_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T133940_20230330T134004_E001 CS_OFFL_SIR_LRM_1B_20230330T134007_20230330T134013_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T134018_20230330T134015_E001 CS_OFFL_SIR_LRM_1B_20230330T134018_20230330T134035_E001 | 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_20230330T134078_20230330T134033_E001 CS_OFFL_SIR_LRM_1B_20230330T134428_20230330T135240_E001 | Loss of echo | |
| CS_OFFL_SIR_LRM_1B_20230330T1354428_20230330T135240_E001 CS_OFFL_SIR_LRM_1B_20230330T135548_20230330T135806_E001 | 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_20230330T135808_20230330T135809_E001 | 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_20230330T135812_20230330T141508_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T1330T2_20230330T141300_E001 CS_OFFL_SIR_LRM_1B_20230330T143144_20230330T144145_E001 | 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_20230330T143T44_20230330T144T43_E001 CS_OFFL_SIR_LRM_1B_20230330T144240_20230330T144539_E001 | 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_20230330T144240_20230330T144339_E001 CS_OFFL_SIR_LRM_1B_20230330T144753_20230330T145924_E001 | 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_20230330T150109_20230330T150229_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T150109_20230330T150229_E001 CS_OFFL_SIR_LRM_1B_20230330T151648_20230330T152106_E001 | 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_20230330T152109_20230330T152502_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T152505_20230330T152534_E001 | 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_20230330T152714_20230330T153742_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T162537_20230330T163131_E001 | 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_20230330T163415_202303330T164114_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T164407_20230330T164427_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T165514_20230330T170039_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T170042_20230330T170113_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T170116_20230330T170122_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T170125_20230330T170134_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T170139_20230330T170241_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T170244_20230330T170255_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T170258_20230330T170329_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T170408_20230330T170451_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T174628_20230330T181528_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T183826_20230330T184500_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T184505_20230330T184508_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T184646_20230330T191254_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T201657_20230330T201955_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T202028_20230330T202219_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T202221_20230330T202229_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T202310_20230330T202953_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T202955_20230330T202955_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T203000_20230330T203030_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T203033_20230330T204105_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T205431_20230330T210016_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T210513_20230330T213916_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T215858_20230330T220017_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T220029_20230330T220137_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T221113_20230330T221155_E001 | Loss of echo | The tracking echo is missing for one or more records |
| 00 0551 015 1 584 45 00000000000000000000000000000000 | | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T221158_20230330T223224_E001 | Loss of echo | The tracking ecro is missing for one or more records |

| CS_OFFL_SIR_LRM_1B_20230330T232026_20230330T232147_E001 | Loss of echo | The tracking echo is missing for one or more records |
|---------------------------------------------------------|--------------|------------------------------------------------------|
| CS_OFFL_SIR_LRM_1B_20230330T234056_20230330T234212_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T234344_20230330T234828_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230330T234909_20230331T000848_E001 | Loss of echo | The tracking echo is missing for one or more records |

4.5 L1B Calibration Usage Check

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

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Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

| Product | Test Failed | Description |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| CS_OFFL_SIR_SAR_1B_20230330T000845_20230330T000846_E001 | Dry tropospheric Correction Error, Wet tropospheric Correction Error, Inverse barometric Correction Error, Dynamic atmosphere Correction Error, Ocean equilibrium tide, Ocean long period tide, Ocean loading tide, Solid Earth tide, Geocentr. polar tide, Surface type flag | Auxillary corrections missing due to short product length. |
| CS_OFFL_SIR_SAR_1B_20230330T000857_20230330T000902_E001 | Dry tropospheric Correction Error, Wet tropospheric Correction Error, Inverse barometric Correction Error, Dynamic atmosphere Correction Error, Ocean equilibrium tide, Ocean long period tide, Ocean loading tide, Solid Earth tide, Geocentr. polar tide, Surface type flag | Auxillary corrections missing due to short product length. |
| CS_OFFL_SIR_SAR_1B_20230330T000933_20230330T000934_E001 | Dry tropospheric Correction Error, Wet tropospheric Correction Error, Inverse barometric Correction Error, Dynamic atmosphere Correction Error, Ocean equilibrium tide, Ocean long period tide, Ocean loading tide, Solid Earth tide, Geocentr. polar tide, Surface type flag | Auxillary corrections missing due to short product length. |
| CS_OFFL_SIR_SAR_1B_20230330T084146_20230330T084149_E001 | Dry tropospheric Correction Error, Wet tropospheric Correction Error, Inverse barometric Correction Error, Dynamic atmosphere Correction Error, Ocean equilibrium tide, Ocean long period tide, Ocean loading tide, Solid Earth tide, Geocentr. polar tide, Surface type flag | Auxillary corrections missing due to short product length. |
| CS_OFFL_SIR_SAR_1B_20230330T115842_20230330T115843_E001 | Dry tropospheric Correction Error, Wet tropospheric Correction Error, Inverse barometric Correction Error, Dynamic atmosphere Correction Error, Ocean equilibrium tide, Ocean long period tide, Ocean loading tide, Solid Earth tide, Geocentr. polar tide, Surface type flag | Auxillary corrections missing due to short product length. |
| CS_OFFL_SIR_SAR_1B_20230330T115933_20230330T115934_E001 | Dry tropospheric Correction Error, Wet tropospheric Correction Error, Inverse barometric Correction Error, Dynamic atmosphere Correction Error, Ocean equilibrium tide, Ocean long period tide, Ocean loading tide, Solid Earth tide, Geocentr. polar tide, Surface type flag | Auxillary corrections missing due to short product length. |
| CS_OFFL_SIR_SAR_1B_20230330T232000_20230330T232001_E001 | Dry tropospheric Correction Error, Wet tropospheric Correction Error, Inverse barometric Correction Error, Dynamic atmosphere Correction Error, Ocean equilibrium tide, Ocean long period tide, Ocean loading tide, Solid Earth tide, Geocentr. polar tide, Surface type flag | Auxillary corrections missing due to short product length. |

4.8 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag 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 Applied 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.

| Product | Test Failed | Description |
|---------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_LRM_1B_20230330T163415_20230330T164114_E001 | IECNO ERROR IRK ECNO ERROR | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

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 for each measurement record. The bit value of this flag indicates any problems when set.

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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.

Sea State Bias error: This flag is currently set in all L2 LRM products over ocean, indicating a problem with the sea state bias Due to a known anomaly, the sea state bias field is currently unfilled in all Baseline-E L2 LRM products. This anomaly will be resolved in the next IPF update.

Snow Depth Model error: This flag is currently set in all L2 SAR products over ocean, which fall outside of the extent of the current snow depth model. Currently the snow depth model is only available over the high-latitude Arctic. There is no model currently provided for the Antarctic or marginal Arctic regions. An updated model will be provided in the next IPF update.

Number of products with errors:

| Product | Test Failed | Description |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_LRM_220230330T060240_20230330T060436_E001 | Slope model | There is an error with the Slope Model for one or more records |
| CS_OFFL_SIR_SAR_220230330T000820_20230330T000842_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T000853_20230330T000855_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T000857_20230330T000902_E001 | Dry tropospheric corr, Wet tropospheric corr, Inverse barometric corr, Dynamic atm corr, Model Ionospheric corr, Solid Earth tide, Geocentr. polar tide, Snow depth model | There is an error with the Dry tropospheric correction, Wet tropospheric correction, Inverse barometric correction, Dynamic atm correction, Model lonospheric correction, Solid Earth tide, Geocentral polar tide, and Snow depth model, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T000907_20230330T000931_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T000935_20230330T001116_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T001927_20230330T002504_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T002547_20230330T003154_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T005716_20230330T010032_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T010059_20230330T010415_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T011510_20230330T011526_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T013305_20230330T013746_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T014616_20230330T014621_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T014622_20230330T014738_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T014741_20230330T014745_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T014748_20230330T014808_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T014810_20230330T014819_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T014821_20230330T014846_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T014848_20230330T014858_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T020553_20230330T020618_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T022148_20230330T022402_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T023853_20230330T023934_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T030935_20230330T031114_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T032736_20230330T032741_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T034106_20230330T034257_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T034506_20230330T034612_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T034800_20230330T034918_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T042110_20230330T042145_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T043350_20230330T043402_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |

| CS_OFFL_SIR_SAR_220230330T045704_20230330T045809_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_SAR_220230330T052319_20230330T052556_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T053040_20230330T053300_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T060016_20230330T060120_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T061234_20230330T061303_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T061544_20230330T061632_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| | | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T064848_20230330T065010_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T071009_20230330T071151_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T073928_20230330T074047_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T082112_20230330T082312_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T082646_20230330T082842_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T084146_20230330T084149_E001 | Dry tropospheric corr, Wet tropospheric corr, Inverse barometric corr, Dynamic atm corr, Model Ionospheric corr, Solid Earth tide, Geocentr. polar tide, Snow depth model | There is an error with the Dry tropospheric correction, Wet tropospheric correction, Inverse barometric correction, Dynamic atm correction, Model Ionospheric correction, Solid Earth tide, Geocentral polar tide, and Snow depth model, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T091830_20230330T092038_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T093036_20230330T093047_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T093502_20230330T093551_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T093713_20230330T093959_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T095756_20230330T100154_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| | | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T100358_20230330T100547_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T100946_20230330T100954_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T101057_20230330T101932_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T102238_20230330T102325_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T103157_20230330T103442_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T105749_20230330T105928_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T110359_20230330T110405_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T110937_20230330T110947_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T112317_20230330T112504_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T113737_20230330T114417_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T114417_20230330T114612_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T114651_20230330T114848_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFE_SIN_SAN_2202303301114031_202303301114040_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T115842_20230330T115843_E001 | Dry tropospheric corr, Wet tropospheric corr, Inverse barometric corr, Dynamic atm corr, Model Ionospheric corr, Solid Earth tide, Geocentr. polar tide | There is an error with the Dry tropospheric correction, Wet tropospheric correction, Inverse barometric correction, Dynamic atm correction, Model lonospheric correction, Solid Earth tide, Geocentral polar tide, and Snow depth model, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T120103_20230330T120208_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T123544_20230330T123602_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T124258_20230330T124304_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T124311_20230330T124318_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T124804_20230330T124906_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T125105_20230330T125113_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T125113_20230330T125358_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T132449_20230330T132519_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T134035_20230330T134302_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| | | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T134312_20230330T134314_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T134319_20230330T134428_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T135240_20230330T135548_E001 | Snow depth model | falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230330T142157_20230330T142204_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T142210_20230330T142216_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T142613_20230330T143144_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T144539_20230330T144753_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T145924_20230330T150109_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |

| CS_OFFL_SIR_SAR_220230330T150229_20230330T150348_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_SAR_220230330T150627_20230330T150748_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T153742_20230330T153921_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T155412_20230330T155422_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T160109_20230330T160116_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T163254_20230330T163415_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T164114_20230330T164407_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T170914_20230330T171020_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T173335_20230330T173405_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T174553_20230330T174628_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T192443_20230330T192552_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T201215_20230330T201657_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T202229_20230330T202251_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T202253_20230330T202259_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T202301_20230330T202310_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T204105_20230330T204621_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T205254_20230330T205306_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T210332_20230330T210513_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T213916_20230330T213956_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T215001_20230330T215306_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T215512_20230330T215858_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T220137_20230330T220459_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T223224_20230330T223233_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T224214_20230330T224427_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T230723_20230330T230735_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T231912_20230330T231953_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T232000_20230330T232001_E001 | Dry tropospheric corr, Wet tropospheric corr, Inverse barometric corr, Dynamic atm corr, Model Ionospheric corr, Solid Earth tide, Geocentr. polar tide, Snow depth model | There is an error with the Dry tropospheric correction, Wet tropospheric correction, Inverse barometric correction, Dynamic atm correction, Model lonospheric correction, Solid Earth tide, Geocentral polar tide, and Snow depth model, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T232007_20230330T232009_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T232013_20230330T232026_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T232901_20230330T233111_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T233145_20230330T233311_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T233330_20230330T234056_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230330T234212_20230330T234344_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SIN_220230330T010415_20230330T010651_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SIN_220230330T010844_20230330T011510_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SIN_220230330T023934_20230330T024544_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SIN_220230330T092038_20230330T092355_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SIN_220230330T105928_20230330T110248_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SIN_220230330T142404_20230330T142613_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SIN_220230330T160251_20230330T160946_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SIN_220230330T223910_20230330T224214_E001 | Mean Sea Surface model | There is an error with the Mean Sea Surface for one or more records |
| | | |

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag 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.

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.

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.

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.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

Number of products with errors:

| 2 | 4 | 5 |
|---|---|---|
| _ | | J |

| Product | Test Failed | Description |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_LRM_220230330T003154_20230330T005716_E001 | 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_220230330T011526_20230330T013058_E001 | 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_220230330T013132_20230330T013305_E001 | 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_220230330T013746_20230330T014535_E001 | Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable | There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T020618_20230330T022148_E001 | 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_220230330T022402_20230330T023853_E001 | 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_220230330T025434_20230330T030935_E001 | (Retracker 3), Backscatter Error | 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_220230330T031114_20230330T032250_E001 | 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_220230330T034612_20230330T034800_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T034918_20230330T035913_E001 | 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_220230330T040551_20230330T042110_E001 | 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_220230330T043402_20230330T045704_E001 | 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_220230330T050404_20230330T050515_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T053300_20230330T053543_E001 | 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_220230330T053612_20230330T060016_E001 | 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_220230330T061632_20230330T063908_E001 | 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_220230330T071151_20230330T073928_E001 | 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_220230330T075214_20230330T082042_E001 | 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_220230330T082044_20230330T082112_E001 | 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_220230330T082842_20230330T083038_E001 | 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_220230330T084332_20230330T091830_E001 | 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_220230330T100704_20230330T100946_E001 | 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_220230330T100954_20230330T101057_E001 | 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_220230330T102325_20230330T103157_E001 | 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_220230330T103442_20230330T105749_E001 | 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_220230330T110947_20230330T112317_E001 | 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_220230330T112504_20230330T113107_E001 | 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_220230330T113300_20230330T113737_E001 | 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_220230330T120208_20230330T123544_E001 | 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_220230330T125358_20230330T132449_E001 | 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_220230330T133805_20230330T133851_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T133857_20230330T133911_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |

| CS_OFFL_SIR_LRM_220230330T134428_20230330T135240_E001 | 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_220230330T135548_20230330T135806_E001 | 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_220230330T135812_20230330T141508_E001 | 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_220230330T143144_20230330T144145_E001 | 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_220230330T144753_20230330T145924_E001 | 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_220230330T150109_20230330T150229_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T152714_20230330T153742_E001 | 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_220230330T153921_20230330T155412_E001 | 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_220230330T160946_20230330T161130_E001 | 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_220230330T161308_20230330T162422_E001 | 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_220230330T162537_20230330T163131_E001 | 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_220230330T163415_20230330T164114_E001 | 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_220230330T164407_20230330T164427_E001 | 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_220230330T170408_20230330T170451_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T171020_20230330T173335_E001 | 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_220230330T174628_20230330T181528_E001 | 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_220230330T183826_20230330T184500_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T184505_20230330T184508_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T184646_20230330T191254_E001 | 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_220230330T192552_20230330T200017_E001 | 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_220230330T202310_20230330T202953_E001 | 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_220230330T203033_20230330T204105_E001 | 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_220230330T204621_20230330T205254_E001 | 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_220230330T210513_20230330T213916_E001 | Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable | There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230330T215306_20230330T215400_E001 | 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_220230330T220029_20230330T220137_E001 | 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_220230330T221158_20230330T223224_E001 | 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_220230330T224427_20230330T230723_E001 | 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_220230330T230735_20230330T231912_E001 | 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_220230330T233111_20230330T233145_E001 | 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_220230330T234344_20230330T234828_E001 | 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_220230330T234909_20230331T000848_E001 | 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_SAR_220230330T000820_20230330T000842_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T000935_20230330T001116_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T001251_20230330T001927_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| | | |

| CS_OFFL_SIR_SAR_220230330T001927_20230330T002504_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
|-------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|
| CS_OFFL_SIR_SAR_220230330T002547_20230330T003154_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T005716_20230330T010032_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T010059_20230330T010415_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T011510_20230330T011526_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T013305_20230330T013746_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T014748_20230330T014808_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T015210_20230330T015815_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T015815_20230330T015926_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T020553_20230330T020618_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T022148_20230330T022402_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T023853_20230330T023934_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T030935_20230330T031114_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T033156_20230330T033253_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T033306_20230330T033348_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T033423_20230330T033606_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T033606_20230330T033846_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T034106_20230330T034257_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T034506_20230330T034612_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T034800_20230330T034918_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T042110_20230330T042145_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T043350_20230330T043402_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T045704_20230330T045809_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T051039_20230330T051148_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T051149_20230330T051800_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T052319_20230330T052556_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T060016_20230330T060120_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T061234_20230330T061303_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T061544_20230330T061632_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T064848_20230330T065010_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T065022_20230330T065052_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T065133_20230330T065248_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T065314_20230330T065823_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T071009_20230330T071151_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T073928_20230330T074047_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |

| CS_OFFL_SIR_SAR_220230330T082112_20230330T082312_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
|-------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|
| CS_OFFL_SIR_SAR_220230330T082646_20230330T082842_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T083038_20230330T083159_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T083214_20230330T084019_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T091830_20230330T092038_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T093036_20230330T093047_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T093502_20230330T093551_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T093713_20230330T093959_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T095756_20230330T100154_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T100358_20230330T100547_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T100946_20230330T100954_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T101057_20230330T101932_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T102238_20230330T102325_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T103157_20230330T103442_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T105749_20230330T105928_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T110937_20230330T110947_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T112317_20230330T112504_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T113737_20230330T114417_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T114417_20230330T114612_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T114651_20230330T114848_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T115148_20230330T115840_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T120103_20230330T120208_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T123544_20230330T123602_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T124804_20230330T124906_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T125105_20230330T125113_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T125113_20230330T125358_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T132449_20230330T132519_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T133048_20230330T133632_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T133647_20230330T133805_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T134035_20230330T134302_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T134319_20230330T134428_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T135240_20230330T135548_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T142613_20230330T143144_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T145924_20230330T150109_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T150229_20230330T150348_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
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| CS_OFFL_SIR_SAR_220230330T150627_20230330T150748_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
|-------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|
| CS_OFFL_SIR_SAR_220230330T151004_20230330T151340_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T151340_20230330T151648_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T153742_20230330T153921_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T155412_20230330T155422_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T163254_20230330T163415_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T164114_20230330T164407_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T164830_20230330T165352_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T165421_20230330T165514_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T170914_20230330T171020_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T173335_20230330T173405_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T174553_20230330T174628_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T182653_20230330T183654_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T192443_20230330T192552_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T200409_20230330T201144_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T201215_20230330T201657_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T202229_20230330T202251_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T204105_20230330T204621_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T205254_20230330T205306_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T210332_20230330T210513_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T213916_20230330T213956_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T214308_20230330T215001_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T215001_20230330T215306_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T215512_20230330T215858_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T220137_20230330T220459_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T223224_20230330T223233_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T224214_20230330T224427_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T230723_20230330T230735_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T231912_20230330T231953_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T232147_20230330T232901_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T232901_20230330T233111_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T233145_20230330T233311_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T233330_20230330T234056_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230330T234212_20230330T234344_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
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| CS_OFFL_SIR_SIN_220230330T002504_20230330T002547_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
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| CS_OFFL_SIR_SIN_220230330T010415_20230330T010651_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T010844_20230330T011510_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T015926_20230330T020046_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T020347_20230330T020553_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T023934_20230330T024544_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T024757_20230330T024839_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T025258_20230330T025433_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T033349_20230330T033423_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T033846_20230330T033952_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T034023_20230330T034106_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T034257_20230330T034506_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T040104_20230330T040551_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T042145_20230330T042336_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T043202_20230330T043350_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T045836_20230330T050223_E001 | 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_220230330T050259_20230330T050404_E001 | 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_220230330T051800_20230330T052255_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T060120_20230330T060240_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T060436_20230330T060526_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T061017_20230330T061233_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T063908_20230330T064039_E001 | 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_220230330T065010_20230330T065022_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T065053_20230330T065132_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T065248_20230330T065314_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T065823_20230330T071009_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T074047_20230330T074207_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T074236_20230330T074446_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T075044_20230330T075213_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T083200_20230330T083214_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T084019_20230330T084146_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |

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| CS_OFFL_SIR_SIN_220230330T084149_20230330T084332_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T092038_20230330T092355_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T092916_20230330T093035_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T100155_20230330T100229_E001 | | 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_220230330T100605_20230330T100703_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T101932_20230330T102238_E001 | Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T105928_20230330T110248_E001 | track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T110812_20230330T110936_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error Backscatter Error (Retracker 2) | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T114612_20230330T114651_E001 | unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T114848_20230330T115148_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T123602_20230330T123755_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T124628_20230330T124804_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T132519_20230330T132630_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T132949_20230330T133048_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error Backscatter Error (Retracker 2) | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T133632_20230330T133647_E001 | unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T141508_20230330T141648_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T142404_20230330T142613_E001 | track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T150348_20230330T150627_E001 | unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T150748_20230330T151004_E001 | ITRACK ANDIE ERROR SURFACE MODEL | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T155422_20230330T155608_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T160251_20230330T160946_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T161130_20230330T161308_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T162422_20230330T162537_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T163131_20230330T163254_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T164427_20230330T164830_E001 | TITACK ANDIE ETTOL SUITACE MODEL | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T165352_20230330T165420_E001 | itrack Angle Error Surface model | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T170451_20230330T170841_E001 | 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_220230330T173405_20230330T173647_E001 | track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T174352_20230330T174552_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T181528_20230330T182653_E001 | Backscatter Error (Retracker 3), SARIn X-track Angle Error, Surface model | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T184509_20230330T184646_E001 | | 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_220230330T191254_20230330T191430_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_SIN_220230330T192316_20230330T192443_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T200017_20230330T200111_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T200111_20230330T200409_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T201144_20230330T201215_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable | There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records |
| CS_OFFL_SIR_SIN_220230330T205306_20230330T205431_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T210016_20230330T210039_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T210217_20230330T210332_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T213956_20230330T214307_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T215400_20230330T215452_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SIN_220230330T223233_20230330T223359_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220230330T223910_20230330T224214_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error | There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records |