

1. Overview

| Report Production Date: | 09-May-2023 |
|-------------------------|-------------------------|
| Processor Used: | CryoSat Ice Processor |
| Data Used: | L1B and L2 OFFLINE Data |

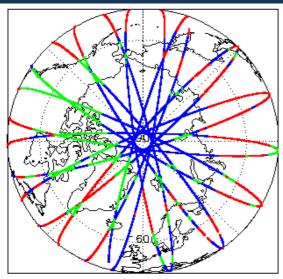
| We would | love to hear t | from voul |
|----------|----------------|-----------|
| we would | love to near | irom you: |

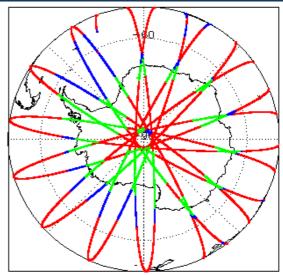
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

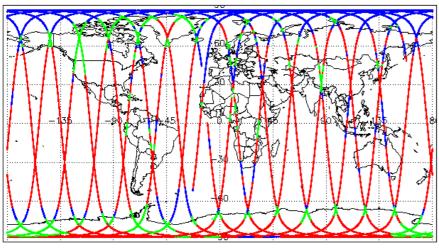
| Check | Status |
|--|------------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | See Section 4.2 |
| Star Tracker Usage 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 |

| Ì | Mission / Instrument News | |
|---|---------------------------|-----------------|
| | 06-Apr-2023 | None |
| | 07-Apr-2023 | None |
| | 08-Apr-2023 | Nothing planned |

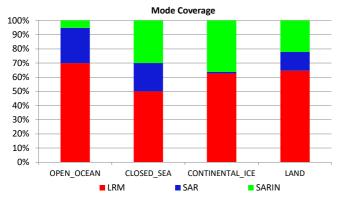
2. Global Coverage

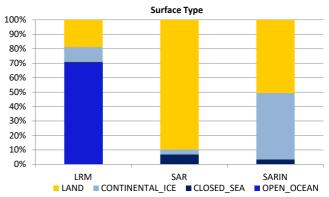












3. Instrument Configuration

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:

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4.3 Star Tracker Usage Check

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

Number of products with errors:

0

4.4 L1B 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.

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

lumber of products with errors:

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_LRM_1B_20230406T233408_20230407T000045_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000047_20230407T000050_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000052_20230407T000052_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000332_20230407T000336_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000340_20230407T000344_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000346_20230407T000347_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000351_20230407T000359_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000401_20230407T000416_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T000419_20230407T000524_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T005914_20230407T010108_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T011452_20230407T012036_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T012318_20230407T012529_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T013009_20230407T013637_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T013840_20230407T013923_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014026_20230407T014036_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014038_20230407T014051_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014053_20230407T014057_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014100_20230407T014107_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014110_20230407T014303_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014305_20230407T014307_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014311_20230407T014320_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014324_20230407T014401_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014403_20230407T014415_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014424_20230407T014426_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T014428_20230407T014448_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T020455_20230407T021413_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T021627_20230407T021926_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T022032_20230407T023211_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T023800_20230407T024023_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T025501_20230407T030159_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T030338_20230407T031821_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T031823_20230407T031849_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T031851_20230407T031905_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T031939_20230407T032447_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T032451_20230407T032523_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T034030_20230407T034343_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T034903_20230407T035351_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T045419_20230407T045512_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T045637_20230407T045641_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T045643_20230407T045645_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T045648_20230407T045706_E001 | Loss of echo | The tracking echo is missing for one or more records |
| | | |

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|---|--------------|--|
| CS_OFFL_SIR_LRM_1B_20230407T045709_20230407T045956_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T051741_20230407T052650_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T052654_20230407T052813_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T052815_20230407T052821_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T052823_20230407T055204_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T060539_20230407T063052_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T063054_20230407T063249_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T063252_20230407T063300_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T063304_20230407T063502_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T063608_20230407T063915_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T063915_20230407T064116_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T070142_20230407T070220_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T074438_20230407T080626_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T080628_20230407T080646_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T080648_20230407T081144_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T081237_20230407T081238_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T081244_20230407T081346_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T081536_20230407T081630_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T082102_20230407T082143_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T093350_20230407T094020_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T094051_20230407T094355_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T094539_20230407T094723_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T094907_20230407T095048_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T095539_20230407T095542_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T095542_20230407T095600_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T102708_20230407T104929_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T115203_20230407T115249_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T115251_20230407T115304_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133034_20230407T133056_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133104_20230407T133117_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133120_20230407T133149_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133151_20230407T133157_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133200_20230407T133223_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133225_20230407T133309_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133622_20230407T133632_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133634_20230407T133638_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133642_20230407T133658_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T133713_20230407T134941_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T135145_20230407T140723_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T142339_20230407T143358_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T143504_20230407T143729_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T144017_20230407T145204_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T150914_20230407T151223_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T151225_20230407T151335_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T151342_20230407T151344_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T151346_20230407T151400_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T151402_20230407T151832_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T151834_20230407T152258_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T152723_20230407T153006_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T155412_20230407T155518_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T155957_20230407T163346_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T164752_20230407T165544_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T165652_20230407T165736_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T170144_20230407T172551_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T172917_20230407T173248_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T173310_20230407T173639_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T173855_20230407T180509_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T180512_20230407T180732_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T180734_20230407T180743_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T180749_20230407T180754_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T180758_20230407T180814_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T183027_20230407T190521_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T191210_20230407T191538_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T200937_20230407T201220_E001 | Loss of echo | The tracking echo is missing for one or more records |
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| CS_OFFL_SIR_LRM_1B_20230407T201253_20230407T201337_E001 | Loss of echo | The tracking echo is missing for one or more records |
|---|--------------|--|
| CS_OFFL_SIR_LRM_1B_20230407T201537_20230407T201634_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T201641_20230407T201707_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T201712_20230407T201854_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T201857_20230407T202555_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T202929_20230407T203514_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T204700_20230407T205236_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T214749_20230407T214755_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T215123_20230407T215157_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T215220_20230407T215231_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T215243_20230407T215247_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T215658_20230407T215838_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T220021_20230407T220352_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T222623_20230407T223132_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T223728_20230407T231136_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T231255_20230407T231306_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T231310_20230407T231313_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T231316_20230407T231328_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T231332_20230407T231353_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T231355_20230407T231358_E001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20230407T231401_20230407T231407_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.

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_20230407T000320_20230407T000321_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T000327_20230407T000328_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T013940_20230407T013940_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T014026_20230407T014026_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T014454_20230407T014454_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T083400_20230407T083401_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |

| CS_OFFL_SIR_SAR_1B_20230407T083405_20230407T083407_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
|---|---|--|
| CS_OFFL_SIR_SAR_1B_20230407T093314_20230407T093315_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T133340_20230407T133341_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T133506_20230407T133507_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T133549_20230407T133551_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |
| CS_OFFL_SIR_SAR_1B_20230407T231418_20230407T231419_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 | Due to missing Forecast Auxiliary Files, there is an error with the corrections given on the left. |

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.

Number of products with errors:

| Product | Test Failed | Description |
|---|----------------------------|--|
| CS_OFFL_SIR_LRM_1B_20230407T164752_20230407T165544_E001 | | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |
| CS_OFFL_SIR_LRM_1B_20230407T202929_20230407T203514_E001 | IECHO error IBK echo error | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors: Not 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag 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 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_SAR_2_20230407T000054_20230407T000301_E001 | ISnow denth 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 2 20230407T000308 20230407T000318 E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
|--|---|---|
| CS OFFL SIR SAR 2 20230407T000302 20230407T000315_E001 | | 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 |
| | 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_2_20230407T001338_20230407T001450_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_220230407T001510_20230407T001733_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_220230407T002536_20230407T002543_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_220230407T004940_20230407T005639_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230407T010733_20230407T010801_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_220230407T011359_20230407T011452_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_2_20230407T012036_20230407T012318_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_220230407T012530_20230407T013009_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_220230407T013637_20230407T013706_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_220230407T013923_20230407T013933_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_220230407T013936_20230407T013938_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_220230407T013944_20230407T013953_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_220230407T013957_20230407T014015_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_220230407T014018_20230407T014023_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_220230407T015835_20230407T015844_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_220230407T020430_20230407T020455_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_220230407T021413_20230407T021620_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_2_20230407T021623_20230407T021627_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS OFFL SIR SAR 2 20230407T024656 20230407T024708 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_220230407T025406_20230407T025501_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 2 20230407T030159 20230407T030338 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 2 20230407T031905 20230407T031939 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 2 20230407T033328 20230407T033442 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_2 20230407T033711 20230407T033801 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_2_20230407T034344_20230407T034515_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_220230407T041258_20230407T041406_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_220230407T042633_20230407T042646_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_220230407T044918_20230407T045006_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_220230407T045038_20230407T045106_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230407T045706_20230407T045709_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230407T055204_20230407T055342_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_220230407T060445_20230407T060539_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_220230407T064116_20230407T064240_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_220230407T070220_20230407T070341_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_220230407T073112_20230407T073316_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_220230407T074429_20230407T074438_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_220230407T081144_20230407T081237_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_220230407T081347_20230407T081536_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_220230407T081854_20230407T081951_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_220230407T082021_20230407T082102_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_2_20230407T083400_20230407T083401_E001 | Dry tropospneric corr, wet tropospneric corr, Inverse barometric corr, Dynamic | There is an error with the values of the correction error flags on the left, for one or more records. |
| CS_OFFL_SIR_SAR_220230407T083405_20230407T083407_E001 | atry ropus And ne l'on; wer no pus sielle corr, Inverse barometric corr, Dynamic | There is an error with the values of the correction error flags on the left, for one or more records. |
| CS_OFFL_SIR_SAR_220230407T083413_20230407T083416_E001 | atm corr. Model Ionospheric corr. Solid Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS_OFFL_SIR_SAR_220230407T091014_20230407T091305_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 2 20230407T092246 20230407T092324 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_2_20230407T092240_20230407T092324_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_2_20230407T093038_20230407T093312_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_220230407T093318_20230407T093346_E001 | Snow depth model | falls outside of the extent of the current snow depth model |

| 00 000 000 000 0 00000 0000000 00000 0000 | la | There is an error with the Snow Depth value, where one or more records |
|--|---|--|
| CS_OFFL_SIR_SAR_220230407T095048_20230407T095122_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_2_20230407T095126_20230407T095357_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_220230407T095600_20230407T095734_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_220230407T100304_20230407T101222_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_2_20230407T101228_20230407T101313_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_220230407T101320_20230407T101542_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_220230407T102422_20230407T102707_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 2 20230407T104929 20230407T105048 E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS OFFL SIR SAR 2 20230407T105621 20230407T105628 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 2 20230407T110201 20230407T110236 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_220230407T111541_20230407T111728_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_220230407T113305_20230407T113712_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_220230407T113713_20230407T113822_E001 | Snow depth model | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_2_20230407T113911_20230407T114010_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_220230407T115305_20230407T115306_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_220230407T115307_20230407T115532_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_220230407T122759_20230407T122829_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_220230407T123520_20230407T123526_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_2_20230407T123533_20230407T123540_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_2_20230407T124009_20230407T124258_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 2 20230407T124318 20230407T124620 E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
| CS OFFL SIR SAR 2 20230407T133310 20230407T133338 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_220230407T133343_20230407T133503_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_220230407T133509_20230407T133527_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_220230407T133529_20230407T133546_E001 | Snow depth model | |
| | Dry tropospneric corr, wet tropospneric | falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_2_20230407T133549_20230407T133551_E001 | · · | There is an error with the values of the correction error flags on the left, for one or more records. |
| CS_OFFL_SIR_SAR_2_20230407T133549_20230407T133551_E001 CS_OFFL_SIR_SAR_2_20230407T133555_20230407T133618_E001 | Dry tropospneric corr, wet tropospneric corr, Inverse barometric corr, Dynamic | There is an error with the values of the correction error flags on the left, for one or more records. 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 |
| | ury tropospneric corr, wet tropospneric corr, Inverse barometric corr, Dynamic atm corr, Model Ionospheric corr, Solid | There is an error with the values of the correction error flags on the left, for one or more records. 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 falls outside of the extent of the current snow depth model |
| CS_OFFL_SIR_SAR_2_20230407T133555_20230407T133618_E001 | Lry tropospnenc corr, wet tropospnenc corr, Inverse barometric corr, Dynamic atm corr, Model lonospheric corr, Solid Snow depth model | There is an error with the values of the correction error flags on the left, for one or more records. 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_2_20230407T133555_20230407T133618_E001 CS_OFFL_SIR_SAR_2_20230407T134941_20230407T134944_E001 | Dry tropospnenc corr, wet tropospnenc corr, Inverse barometric corr, Dynamic atm corr. Model Ionospheric corr. Solid Snow depth model Snow depth model | There is an error with the values of the correction error flags on the left, for one or more records. 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 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_2_20230407T133555_20230407T133618_E001 CS_OFFL_SIR_SAR_2_20230407T134941_20230407T134944_E001 CS_OFFL_SIR_SAR_2_20230407T134947_20230407T135145_E001 | Dry tropospnenc corr, wet tropospnenc corr, Inverse barometric corr, Dynamic atm corr. Model longspheric corr. Solid Snow depth model Snow depth model Snow depth model | There is an error with the values of the correction error flags on the left, for one or more records. 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 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_2_20230407T133555_20230407T133618_E001 CS_OFFL_SIR_SAR_2_20230407T134941_20230407T134944_E001 CS_OFFL_SIR_SAR_2_20230407T134947_20230407T135145_E001 CS_OFFL_SIR_SAR_2_20230407T140723_20230407T140735_E001 | Dry tropospheric corr, wet tropospheric corr, Inverse barometric corr, Dynamic atm corr, Model Innospheric corr, Solid Snow depth model Snow depth model Snow depth model Snow depth model | There is an error with the values of the correction error flags on the left, for one or more records. 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 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 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 falls outside of the extent of the current snow depth model |
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| CS_OFFL_SIR_SAR_2_20230407T204505_20230407T204546_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 |
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| CS_OFFL_SIR_SAR_220230407T213159_20230407T213240_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_220230407T213311_20230407T213412_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 |
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| CS_OFFL_SIR_SAR_220230407T223442_20230407T223728_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_220230407T231136_20230407T231255_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_220230407T231418_20230407T231419_E001 | orr, Inverse barometric corr, Dynamic atm corr, Model Innospheric corr, Solid | #N/A |
| CS_OFFL_SIR_SAR_220230407T232123_20230407T232528_E001 | Snow depth model | There is an error with the Snow Depth value, where one or more records |
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| CS_OFFL_SIR_SAR_2_20230407T232553_20230407T233608_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_2_20230407T232553_20230407T233608_E001 CS_OFFL_SIR_SAR_2_20230407T235903_20230408T000203_E001 | Snow depth model Snow depth model | There is an error with the Snow Depth value, where one or more records |
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| CS_OFFL_SIR_SAR_2_20230407T235903_20230408T000203_E001 CS_OFFL_SIR_SIN_2_20230407T005640_20230407T005914_E001 CS_OFFL_SIR_SIN_2_20230407T023211_20230407T023800_E001 CS_OFFL_SIR_SIN_2_20230407T073316_20230407T073711_E001 CS_OFFL_SIR_SIN_2_20230407T091306_20230407T091618_E001 | Snow depth model Mean Sea Surface model Mean Sea Surface model Mean Sea Surface model Mean Sea Surface 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 falls outside of the extent of the current snow depth model There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SAR_2_20230407T235903_20230408T000203_E001 CS_OFFL_SIR_SIN_2_20230407T005640_20230407T005914_E001 CS_OFFL_SIR_SIN_2_20230407T023211_20230407T023800_E001 CS_OFFL_SIR_SIN_2_20230407T073316_20230407T073711_E001 CS_OFFL_SIR_SIN_2_20230407T091306_20230407T091618_E001 CS_OFFL_SIR_SIN_2_20230407T105048_20230407T105501_E001 | Snow depth model Mean Sea Surface 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 falls outside of the extent of the current snow depth model There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records |
| CS_OFFL_SIR_SAR_2_20230407T235903_20230408T000203_E001 CS_OFFL_SIR_SIN_2_20230407T005640_20230407T005914_E001 CS_OFFL_SIR_SIN_2_20230407T023211_20230407T023800_E001 CS_OFFL_SIR_SIN_2_20230407T073316_20230407T073711_E001 CS_OFFL_SIR_SIN_2_20230407T091306_20230407T091618_E001 CS_OFFL_SIR_SIN_2_20230407T105048_20230407T105501_E001 CS_OFFL_SIR_SIN_2_20230407T141621_20230407T141840_E001 | Snow depth model Mean Sea Surface 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 falls outside of the extent of the current snow depth model There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records There is an error with the Mean Sea Surface for one or more records 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.

SARIn X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

Number of products with errors: 25

| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_LRM_220230406T233408_20230407T000045_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_220230407T002543_20230407T004940_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_220230407T010801_20230407T011358_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_220230407T011452_20230407T012036_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_220230407T012318_20230407T012529_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_220230407T013009_20230407T013637_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_220230407T014403_20230407T014415_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230407T015844_20230407T020430_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_220230407T020455_20230407T021413_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_220230407T022032_20230407T023211_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_220230407T024708_20230407T025406_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_220230407T025501_20230407T030159_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_220230407T030338_20230407T031821_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_2_20230407T033801_20230407T033908_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230407T034030_20230407T034343_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_220230407T034515_20230407T034740_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_220230407T034903_20230407T035351_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_2_20230407T035638_20230407T041258_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_220230407T042646_20230407T044918_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_2_20230407T052823_20230407T055204_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_220230407T060539_20230407T063052_E001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable | There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230407T070142_20230407T070220_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_220230407T070341_20230407T073112_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_2_20230407T074438_20230407T080626_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_220230407T080648_20230407T081144_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_2_20230407T082102_20230407T082143_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_220230407T083530_20230407T091014_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_220230407T094907_20230407T095048_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_220230407T095122_20230407T095126_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_220230407T095901_20230407T100304_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_220230407T101542_20230407T102421_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_220230407T102708_20230407T104929_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_220230407T110236_20230407T111541_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_220230407T111728_20230407T112057_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_220230407T115203_20230407T115249_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_2_20230407T115532_20230407T122758_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_220230407T124621_20230407T131629_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_220230407T133200_20230407T133223_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220230407T133713_20230407T134941_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_220230407T135145_20230407T140723_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_220230407T142339_20230407T143358_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_220230407T144017_20230407T145204_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_220230407T145325_20230407T145504_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_2_20230407T151834_20230407T152258_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_2_20230407T152723_20230407T153006_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_220230407T153145_20230407T154614_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_220230407T155957_20230407T163346_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_2_20230407T163604_20230407T163654_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_220230407T170144_20230407T172551_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_2_20230407T173855_20230407T180509_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_220230407T180512_20230407T180732_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_220230407T183027_20230407T190521_E001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable | There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_2_20230407T191902_20230407T195317_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_220230407T201253_20230407T201337_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_2_20230407T201857_20230407T202555_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_220230407T204700_20230407T205236_E001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_2_20230407T205819_20230407T213158_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_220230407T214540_20230407T214639_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_2_20230407T220507_20230407T222423_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_2_20230407T223728_20230407T231136_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_220230407T232528_20230407T232553_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_220230407T233608_20230407T234030_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_2_20230407T234125_20230407T235903_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_SAR_220230407T000054_20230407T000301_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_220230407T000524_20230407T000651_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_2_20230407T000700_20230407T001149_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_2_20230407T001149_20230407T001313_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_2_20230407T001338_20230407T001450_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_220230407T001510_20230407T001733_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_220230407T002536_20230407T002543_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_220230407T004940_20230407T005639_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_2_20230407T010733_20230407T010801_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_2_20230407T011359_20230407T011452_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_220230407T012036_20230407T012318_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_220230407T012530_20230407T013009_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_2_20230407T013637_20230407T013706_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_220230407T014455_20230407T015026_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_220230407T015026_20230407T015146_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_2_20230407T015835_20230407T015844_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_220230407T020430_20230407T020455_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_220230407T024656_20230407T024708_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_220230407T025406_20230407T025501_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_220230407T030159_20230407T030338_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_220230407T032523_20230407T032611_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_220230407T032713_20230407T032803_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_220230407T032803_20230407T033116_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_220230407T033328_20230407T033442_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_220230407T033711_20230407T033801_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_220230407T034344_20230407T034515_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_220230407T041258_20230407T041406_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_220230407T042633_20230407T042646_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_220230407T044918_20230407T045006_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_220230407T050300_20230407T050334_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_220230407T050334_20230407T051030_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_2_20230407T055204_20230407T055342_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_220230407T060445_20230407T060539_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_220230407T064116_20230407T064240_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_2_20230407T064320_20230407T064515_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_2_20230407T064532_20230407T065058_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_220230407T070220_20230407T070341_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_2_20230407T073112_20230407T073316_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_220230407T074429_20230407T074438_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_220230407T081144_20230407T081237_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_220230407T081347_20230407T081536_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_2_20230407T082304_20230407T082352_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_220230407T082402_20230407T082415_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_220230407T082441_20230407T083235_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_220230407T091014_20230407T091305_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_220230407T092246_20230407T092324_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_220230407T092616_20230407T092815_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_220230407T093038_20230407T093312_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_220230407T095048_20230407T095122_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_220230407T095126_20230407T095357_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 2 20230407T095600 20230407T095734 E001 | Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 for one or more records |
|--|---|--|
| CS_OFFL_SIR_SAR_2_20230407T100304_20230407T101222_E001 | Backscatter Error (Retracker 3) Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 for one or more records |
| | Backscatter Error (Retracker 3) Backscatter Error (Retracker 2), | |
| CS_OFFL_SIR_SAR_220230407T101228_20230407T101313_E001 | Backscatter Error (Retracker 3) Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230407T101320_20230407T101542_E001 | Backscatter Error (Retracker 3) Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230407T102422_20230407T102707_E001 | Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230407T104929_20230407T105048_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_220230407T110201_20230407T110236_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_220230407T111541_20230407T111728_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_220230407T113305_20230407T113712_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_220230407T113713_20230407T113822_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_220230407T113911_20230407T114010_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_220230407T114412_20230407T115121_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_220230407T115307_20230407T115532_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_220230407T122759_20230407T122829_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_2_20230407T124009_20230407T124258_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_220230407T124318_20230407T124620_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_220230407T132309_20230407T132850_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_220230407T132906_20230407T132928_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_220230407T132933_20230407T133034_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_220230407T133343_20230407T133503_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_220230407T134947_20230407T135145_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_220230407T140723_20230407T140735_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_220230407T141840_20230407T142339_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_220230407T145204_20230407T145325_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_220230407T145504_20230407T145620_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_220230407T145918_20230407T150011_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_220230407T150224_20230407T150914_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_220230407T152258_20230407T152723_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_220230407T153006_20230407T153145_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_220230407T154615_20230407T154635_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_220230407T163346_20230407T163604_E001 | Backscatter Error (Retracker 2), 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_2_20230407T164048_20230407T164607_E001 | Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_2_20230407T164640_20230407T164752_E001 | Backscatter Error (Retracker 3) Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS OFFL SIR SAR 2 20230407T172551 20230407T172646 E001 | Backscatter Error (Retracker 3) Backscatter Error (Retracker 2), | There is a backscatter error for Retracker 2 and 3 for one or more records |
| 55_011 E_0111_0111_E_EVENUTOFFTFEEE | Backscatter Error (Retracker 3) | |

| | Backscatter Error (Retracker 2), | |
|--|---|---|
| CS_OFFL_SIR_SAR_2_20230407T173823_20230407T173855_E001 | Backscatter Error (Retracker 3) | There is a backscatter error for Retracker 2 and 3 for one or more records |
| CS_OFFL_SIR_SAR_220230407T181902_20230407T182903_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_220230407T190521_20230407T190529_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_220230407T191713_20230407T191901_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_220230407T195643_20230407T200418_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_2_20230407T200445_20230407T200937_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_2_20230407T201338_20230407T201536_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_2_20230407T203514_20230407T203849_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_220230407T204505_20230407T204546_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_220230407T205554_20230407T205819_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_2_20230407T213159_20230407T213240_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_2_20230407T213311_20230407T213412_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_2_20230407T213431_20230407T214223_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_2_20230407T214223_20230407T214347_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_220230407T214411_20230407T214420_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_220230407T214444_20230407T214540_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_2_20230407T214755_20230407T215123_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_2_20230407T215322_20230407T215657_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_2_20230407T222423_20230407T222501_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_2_20230407T223442_20230407T223728_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_2_20230407T231136_20230407T231255_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_2_20230407T231432_20230407T232123_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_2_20230407T232123_20230407T232528_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_2_20230407T232553_20230407T233608_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_2_20230407T235903_20230408T000203_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_2_20230407T000651_20230407T000700_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_2_20230407T001314_20230407T001337_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_2_20230407T001450_20230407T001510_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_2_20230407T001734_20230407T001820_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_2_20230407T005640_20230407T005914_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_2_20230407T010108_20230407T010357_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20230407T010543_20230407T010732_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_2_20230407T015146_20230407T015307_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_2_20230407T015726_20230407T015835_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_2_20230407T023211_20230407T023800_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_2_20230407T024023_20230407T024054_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20230407T024517_20230407T024656_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_2_20230407T032612_20230407T032713_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_2_20230407T033116_20230407T033327_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_220230407T033442_20230407T033711_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_2_20230407T033908_20230407T034030_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_2_20230407T034741_20230407T034903_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_2_20230407T035353_20230407T035638_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_2_20230407T041406_20230407T041548_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_2_20230407T042428_20230407T042633_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_2_20230407T045107_20230407T045419_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_2_20230407T045512_20230407T045637_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_2_20230407T051030_20230407T051518_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_2_20230407T055342_20230407T055506_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_2_20230407T055653_20230407T055754_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20230407T060225_20230407T060445_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_2_20230407T064240_20230407T064320_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_2_20230407T064515_20230407T064532_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_2_20230407T065058_20230407T070142_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_2_20230407T073316_20230407T073711_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_2_20230407T074303_20230407T074429_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_2_20230407T082143_20230407T082202_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_2_20230407T082352_20230407T082402_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_2_20230407T082415_20230407T082441_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_2_20230407T083417_20230407T083530_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_2_20230407T091306_20230407T091618_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_2_20230407T092135_20230407T092245_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_2_20230407T095357_20230407T095539_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_2_20230407T095734_20230407T095901_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_2_20230407T101223_20230407T101228_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_2_20230407T101313_20230407T101320_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_2_20230407T105048_20230407T105501_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_2_20230407T110035_20230407T110201_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_2_20230407T113823_20230407T113911_E001 | 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_2_20230407T114010_20230407T114333_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_2_20230407T114334_20230407T114412_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_2_20230407T122829_20230407T123002_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_2_20230407T123825_20230407T124009_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_2_20230407T131629_20230407T131810_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_2_20230407T132214_20230407T132309_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_2_20230407T132850_20230407T132906_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_2_20230407T132929_20230407T132932_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_2_20230407T133658_20230407T133713_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_2_20230407T140735_20230407T140917_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_2_20230407T141621_20230407T141840_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_2_20230407T145620_20230407T145640_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_2_20230407T145640_20230407T145918_E001 | Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable Backscatter Error (Retracker 2), | 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_2_20230407T150011_20230407T150224_E001 | 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_220230407T154635_20230407T154830_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_2_20230407T155405_20230407T155412_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20230407T155518_20230407T155957_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_2_20230407T163654_20230407T164048_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_2_20230407T164607_20230407T164640_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_2_20230407T165544_20230407T165652_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20230407T165742_20230407T170108_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_2_20230407T172646_20230407T172917_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_2_20230407T173639_20230407T173823_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_2_20230407T180814_20230407T181901_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_2_20230407T190529_20230407T190700_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_2_20230407T191203_20230407T191210_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |

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| CS_OFFL_SIR_SIN_2_20230407T191538_20230407T191713_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_2_20230407T195317_20230407T195338_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_2_20230407T195338_20230407T195457_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_2_20230407T195537_20230407T195643_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_2_20230407T200419_20230407T200445_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_2_20230407T204546_20230407T204700_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_2_20230407T205236_20230407T205425_E001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20230407T205438_20230407T205554_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_2_20230407T213240_20230407T213311_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_2_20230407T213412_20230407T213430_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_2_20230407T214347_20230407T214411_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_2_20230407T214420_20230407T214444_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_2_20230407T214639_20230407T214749_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_2_20230407T215247_20230407T215322_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_2_20230407T220352_20230407T220507_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_2_20230407T222501_20230407T222623_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_2_20230407T223132_20230407T223442_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 |