



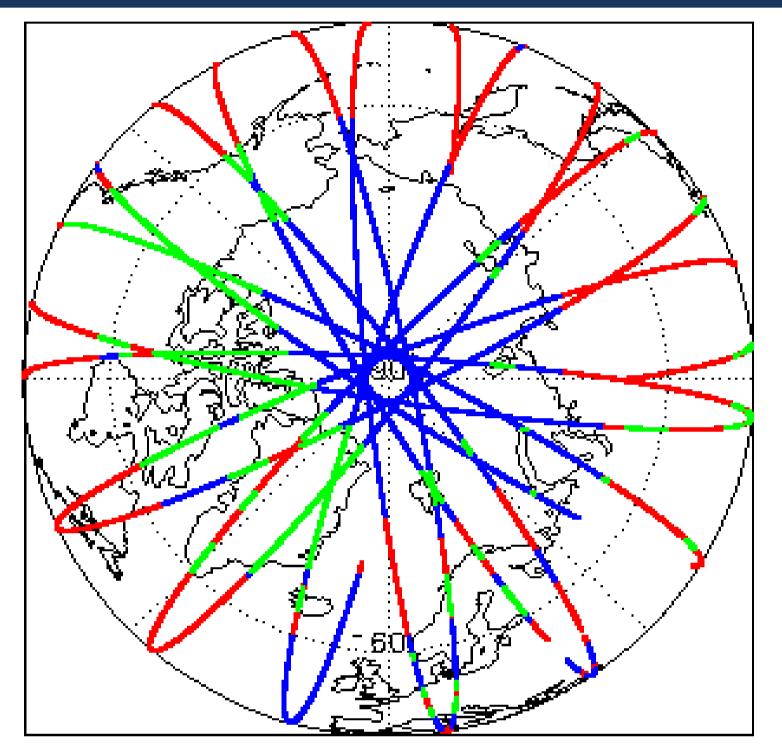
1. Overview

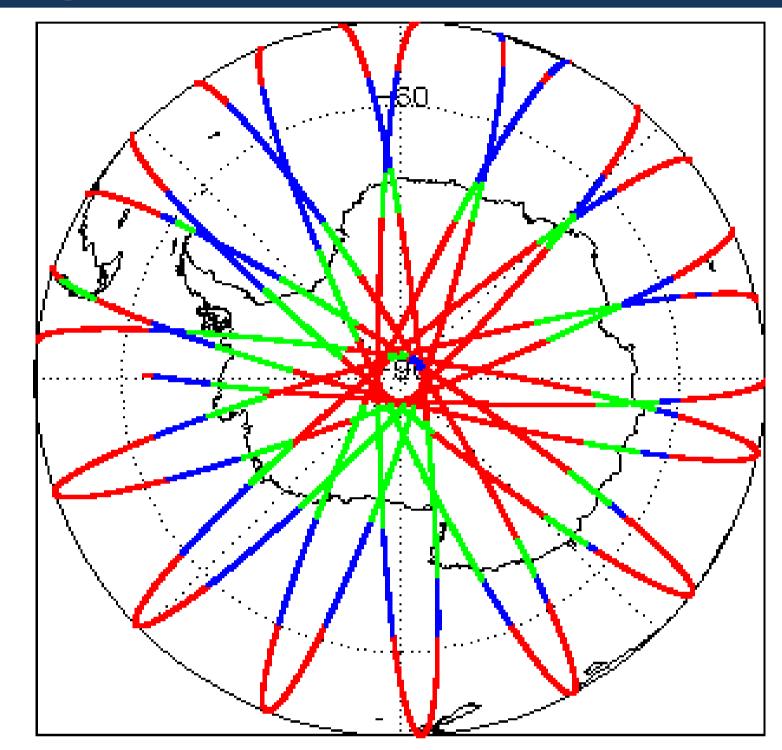
| Report Production Date: | 09-Dec-2020 |
|-------------------------|-------------------------|
| Processor Used: | CryoSat Ice Processor |
| Data Used: | L1B and L2 OFFLINE Data |

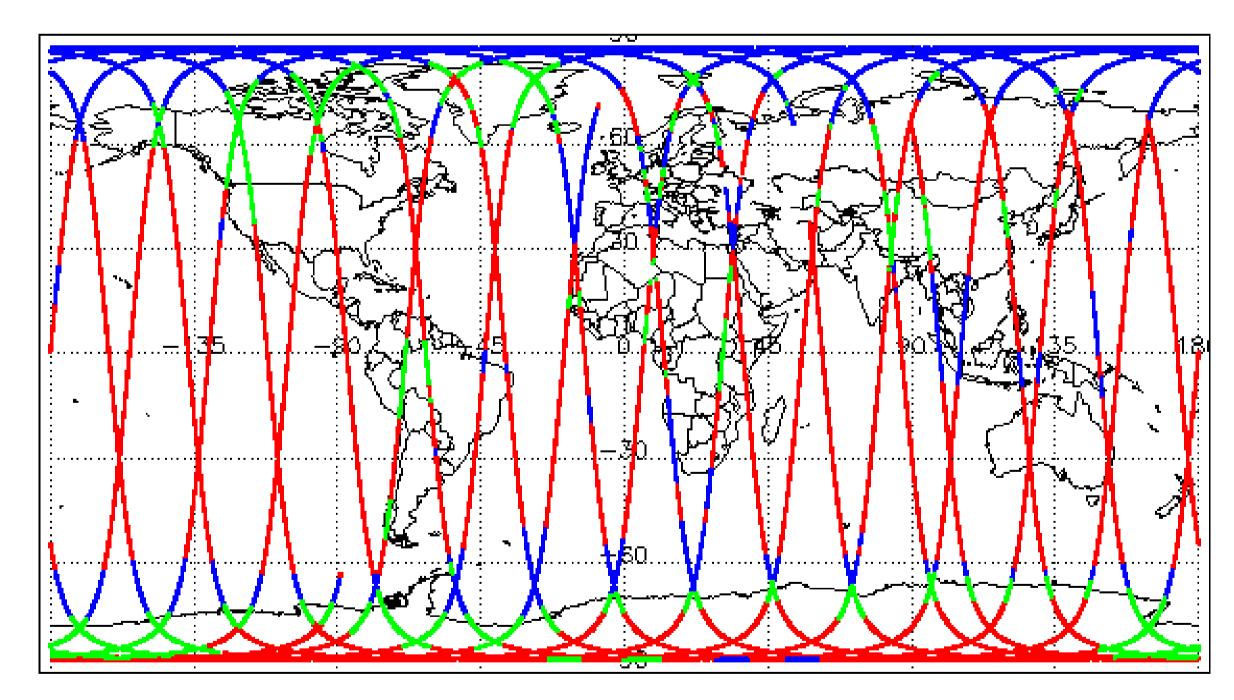
| Check | Status |
|--|------------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | Nominal |
| Star Tracker Usage Check | Nominal |
| L1B Tracking Flag Check | See Section 4.4 |
| L1B Calibration Usage Check | Nominal |
| L1B & L2 Auxiliary Data File Usage Check | Nominal |
| L1B & L2 Auxiliary Correction Error Check | Nominal |
| L1B & L2 Measurement Confidence Data Check | See Section 4.8 and 5.5 |
| QCC Errors/ Warnings | See Section 6.1, 6.2 and 6.3 |

| Mission / Instru | iment News |
|------------------|-----------------|
| 07-Nov-2020 | None |
| 08-Nov-2020 | None |
| 09-Nov-2020 | Nothing planned |

2. Global Coverage



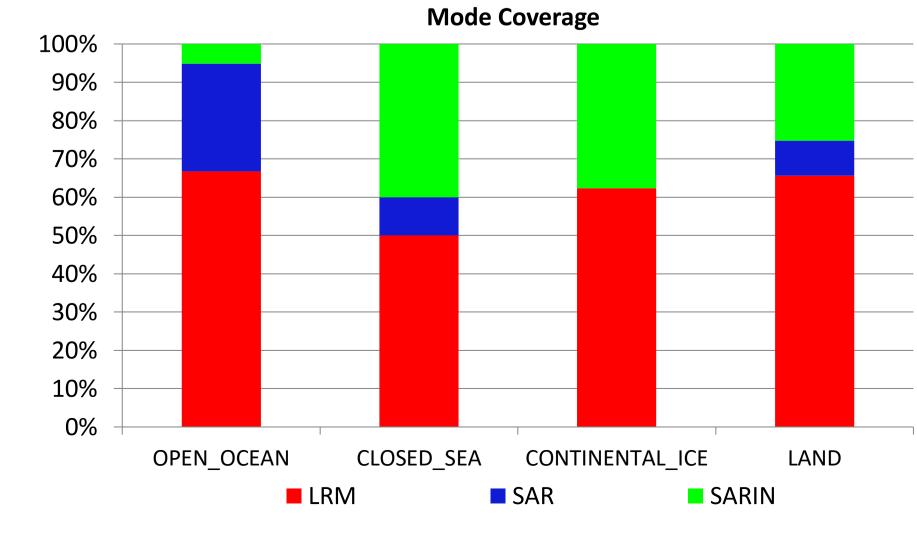


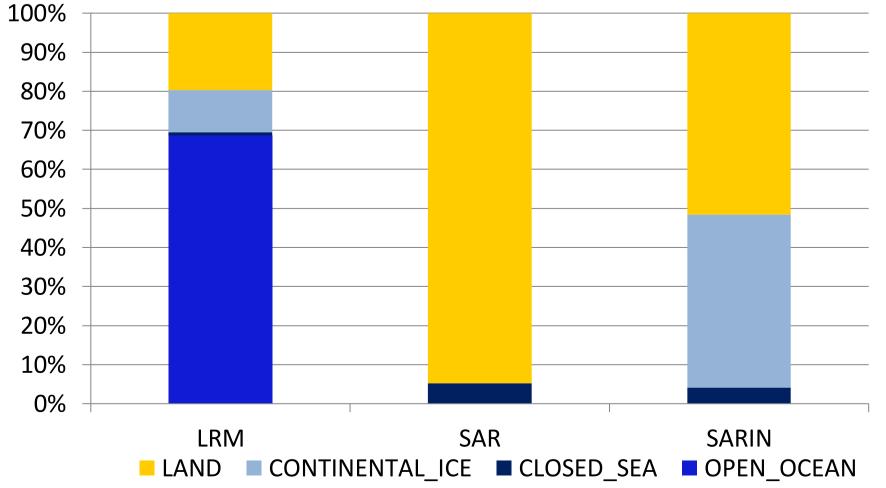




| LRM | 65.8 |
|-------|------|
| SAR | 21.0 |
| SARIn | 13.2 |

Surface Type





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 Che | ck | |
| Each product, retrieved and unpacked from | n the science server, is checked | to ensure it consists of both an XML header file (.HDR) and a product file (.DBL). |
| Number of products with errors: | 0 | |
| 4.2 L1B Product Header Ana | lysis | |
| For all products, a series of pre-defined ch | ecks are carried out on the MPH | and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. |
| Number of products with errors: | 0 | |
| 4.3 Star Tracker Usage Chec | ; k | |
| Each product is checked in order to ensure | e a valid star tracker file has beer | n used in processing. |
| Number of products with errors: | 0 | |
| 4.4 L1B Tracking Flags Chee | ;k | |
| CryoSat L1B data includes a tracking flag | for each measurement record. Th | ne bit value of this flag indicates any problems when set. |
| Loss of Echo Flag: This flag is currently s | set for some products over land, | but this is to be expected. |

Number of products with errors:

129

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_LRM_1B_20201108T003641_20201108T003811_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T004423_20201108T004756_D001 | Loss of echo | The tracking echo is missing for one or more records |

CS_OFFL_SIR_LRM_1B_20201108T010520_20201108T013840_D001 CS_OFFL_SIR_LRM_1B_20201108T015447_20201108T021832_D001 CS_OFFL_SIR_LRM_1B_20201108T021835_20201108T022116_D001 CS_OFFL_SIR_LRM_1B_20201108T022118_20201108T022643_D001 CS_OFFL_SIR_LRM_1B_20201108T022643_20201108T022900_D001 CS_OFFL_SIR_LRM_1B_20201108T033405_20201108T034741_D001 CS_OFFL_SIR_LRM_1B_20201108T034744_20201108T034915_D001 CS_OFFL_SIR_LRM_1B_20201108T034917_20201108T035049_D001 CS_OFFL_SIR_LRM_1B_20201108T035054_20201108T035151_D001 CS_OFFL_SIR_LRM_1B_20201108T035153_20201108T035201_D001 CS_OFFL_SIR_LRM_1B_20201108T035203_20201108T035211_D001 CS_OFFL_SIR_LRM_1B_20201108T035213_20201108T035749_D001 CS_OFFL_SIR_LRM_1B_20201108T035758_20201108T035840_D001 CS_OFFL_SIR_LRM_1B_20201108T040018_20201108T040129_D001 CS_OFFL_SIR_LRM_1B_20201108T040307_20201108T040408_D001 CS_OFFL_SIR_LRM_1B_20201108T040834_20201108T040919_D001 CS_OFFL_SIR_LRM_1B_20201108T052559_20201108T052743_D001 CS_OFFL_SIR_LRM_1B_20201108T052801_20201108T053505_D001 CS_OFFL_SIR_LRM_1B_20201108T053648_20201108T053931_D001 CS_OFFL_SIR_LRM_1B_20201108T054219_20201108T054319_D001 CS_OFFL_SIR_LRM_1B_20201108T061447_20201108T063603_D001 CS_OFFL_SIR_LRM_1B_20201108T070511_20201108T071228_D001 CS_OFFL_SIR_LRM_1B_20201108T071324_20201108T071730_D001 CS_OFFL_SIR_LRM_1B_20201108T073933_20201108T074821_D001 CS_OFFL_SIR_LRM_1B_20201108T074910_20201108T081503_D001 CS_OFFL_SIR_LRM_1B_20201108T082317_20201108T082552_D001 Loss of echo Loss of echo

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

| CS_OFFL_SIR_LRM_1B_20201108T083401_20201108T084632_D001 | Loss of echo | The tracking echo is missing for one or more records |
|---|--------------|--|
| CS_OFFL_SIR_LRM_1B_20201108T091804_20201108T091808_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091811_20201108T091827_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091830_20201108T091831_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091834_20201108T091836_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091839_20201108T091848_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091852_20201108T091905_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091907_20201108T091915_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091917_20201108T091941_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T091943_20201108T092006_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092011_20201108T092018_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092023_20201108T092023_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092026_20201108T092044_D001 | Loss of echo | The tracking echo is missing for one or more records |
| | | |

| CS_OFFL_SIR_LRM_1B_20201108T092048_20201108T092057_D001 |
|---|
| CS_OFFL_SIR_LRM_1B_20201108T092100_20201108T092101_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T092108_20201108T092119_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T092124_20201108T092137_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T092140_20201108T092153_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T092156_20201108T092427_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T092542_20201108T093722_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T093926_20201108T095434_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T101106_20201108T101909_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T101930_20201108T102233_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T102236_20201108T102319_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T102334_20201108T102444_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T102759_20201108T104415_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T105655_20201108T110000_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T110003_20201108T110037_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T110039_20201108T110220_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T110223_20201108T110232_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T110234_20201108T111036_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T114150_20201108T114259_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T114846_20201108T122225_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T122335_20201108T122435_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T123537_20201108T124255_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T124258_20201108T124319_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T124439_20201108T124537_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T124846_20201108T124908_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T124940_20201108T124900_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T132757_20201108T135355_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T135403_20201108T135535_D001 |
| |
| CS_OFFL_SIR_LRM_1B_20201108T135525_20201108T135533_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T135536_20201108T135549_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T135553_20201108T135558_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T141650_20201108T141659_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T141711_20201108T142215_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161139_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161837_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T164013_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T173608_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T173930_20201108T174009_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174621_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001 |
| CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 |
| CS OFFL SIR LRM 1B 20201108T182606 20201108T190030 D001 |

| CS_OFFL_SIR_LRM_1B_20201108T092048_20201108T092057_D001 | Loss of echo | The tracking echo is missing for one or more records |
|---|--|--|
| CS_OFFL_SIR_LRM_1B_20201108T092100_20201108T092101_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092108_20201108T092119_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092124_20201108T092137_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092140_20201108T092153_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092156_20201108T092427_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T092542_20201108T093722_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T093926_20201108T095434_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T101106_20201108T101909_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T101930_20201108T102233_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T102236_20201108T102319_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T102334_20201108T102444_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T102759_20201108T104415_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T105655_20201108T110000_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T110003_20201108T110037_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T110039_20201108T110220_D001 | Loss of echo | The tracking echo is missing for one or more records |
| | | |
| CS_OFFL_SIR_LRM_1B_20201108T110223_20201108T110232_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T110234_20201108T111036_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T114150_20201108T114259_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T114846_20201108T122225_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T122335_20201108T122435_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T123537_20201108T124255_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T124258_20201108T124319_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T124439_20201108T124537_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T124846_20201108T124908_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T124914_20201108T131010_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T132757_20201108T135355_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T135403_20201108T135522_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T135525_20201108T135533_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T135536_20201108T135549_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T135553_20201108T135558_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T141650_20201108T141659_D001 | Loss of echo | The tracking echo is missing for one or more records |
| | | 0 0 |
| CS OFFL SIR LRM 1B 20201108T141711 20201108T142215 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T141711_20201108T142215_D001 CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 | Loss of echo Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 | Loss of echo Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 | Loss of echo Loss of echo Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 | Loss of echo Loss of echo Loss of echo Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 | Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 | Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161139_D001 | Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 | Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
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| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T173608_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T1743930_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T17401_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 | Loss of echo Loss of echo< | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T173608_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174621_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T190048_D001 | Loss of echo Loss of echo< | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T1818401_20201108T18190030_D001 CS_OFFL_SIR_LRM_1B_20201108T18181001 | Loss of echo Loss of echo< | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T16133_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174029_D001108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T18190033_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T18190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 < | Loss of echo Loss of echo< | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T15001_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T1610732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T16133_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T173930_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T17401_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190121_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 | Loss of echo Loss of echo< | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T161334_2001108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T16332_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174021_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T182606_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190121_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T19055_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_202 | Loss of echo Loss of echo< | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T150308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T161319_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T16133_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T173608_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T182606_20201108T19003_D001 CS_OFFL_SIR_LRM_1B_20201108T19003_20201108T190124_D001 CS_OFFL_SIR_LRM_1B_20201108T190012_20201108T190125_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190124_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_202 | Loss of echoLoss of echo <td>The tracking echo is missing for one or more records The tracking echo is missing for</td> | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T1610838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T161339_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163341_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T173068_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T173930_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T17401_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T19003_20201108T190121_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 | Ioss of echoLoss of echo <td>The tracking echo is missing for one or more records The tracking echo is missing for</td> | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160015_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160132_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161341_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174351_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174390_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174392_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174021_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174021_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 | Loss of echoLoss of echo <td>The tracking echo is missing for one or more records The tracking echo is missing for</td> | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160015_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T16439_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174393_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174392_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174003_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T1819003_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190124_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20 | ILoss of echoLoss of echoL | The tracking echo is missing for one or more records The tracking echo is missing for |
| CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155735_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160015_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T161139_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163431_20201108T17605_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T1743551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174390_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T1740421_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190133_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 <td< td=""><td>Loss of echo Loss of echo</td><td>The tracking echo is missing for one or more records The tracking echo is missing for</td></td<> | Loss of echo | The tracking echo is missing for one or more records The tracking echo is missing for |

| CS_OFFL_SIR_LRM_1B_20201108T204038_20201108T204145_D001 | Loss of echo |
|---|--------------|
| CS_OFFL_SIR_LRM_1B_20201108T204147_20201108T204157_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T211331_20201108T212739_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T213523_20201108T213726_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T214431_20201108T215919_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T220147_20201108T221110_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221345_20201108T221438_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221440_20201108T221635_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221637_20201108T221643_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221647_20201108T221720_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221722_20201108T221757_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221759_20201108T221940_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221942_20201108T221947_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T221952_20201108T222138_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T223401_20201108T225012_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T225618_20201108T230255_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T234709_20201108T234823_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T234827_20201108T234827_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T234829_20201108T234838_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T235216_20201108T235250_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T235252_20201108T235255_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T235257_20201108T235259_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T235321_20201108T235335_D001 | Loss of echo |
| CS_OFFL_SIR_LRM_1B_20201108T235337_20201108T235338_D001 | Loss of echo |
| | |

| 0 | The tracking echo is missing for one or more records |
|---|--|
| 0 | The tracking echo is missing for one or more records |
| 0 | The tracking echo is missing for one or more records |
| 0 | The tracking echo is missing for one or more records |
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| 0 | The tracking echo is missing for one or more records |
| | |

| 4.3 LID Calibration Usage Chi | いしつ | |
|-------------------------------|-----|--|
|-------------------------------|-----|--|

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

| Number of products with errors: 0 | | | | | | | |
|---|--|---|--|--|--|--|--|
| 4.6 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: 0 | | | | | | | |
| 4.7 L1B Auxiliary Correction Error Check | | | | | | | |
| CryoSat L1B data includes a correction error flag (field 54) for each measureme | ent record. The bit value of this flag indic | cates any problems when set. | | | | | |
| Number of products with errors: 0 | | | | | | | |
| 4.8 L1B Measurement Confidence Data Check | | | | | | | |
| CryoSat L1B data includes a measurement confidence flag (field 18) for each m | neasurement record. The bit value of this | s flag indicates any problems when set. | | | | | |
| Currently, there are several common error flags raised in the Level 1B problem below, followed by a table of any additional issues arising from this test. | oducts which are expected due to ope | erational mode or surface type. All common flags are summarised in the list | | | | | |
| Block Degraded Flag: This flag is currently set for a number of individual recor | ds generally at the start or end of produ | ucts (all modes), but this is to be expected. | | | | | |
| Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, | indicating that the ADC correction appl | ication is deactivated, but this is in line with the current configuration. | | | | | |
| Number of products with errors: 1 | | | | | | | |
| Product | roduct Test Failed Description | | | | | | |
| CS_OFFL_SIR_LRM_1B_20201108T223401_20201108T225012_D001 Echo error, TRK echo error indicating a degraded echo | | | | | | | |
| 5. | Level 2 Data Quality C | heck | | | | | |
| 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).

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

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:

0

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:



5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

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

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

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

57

| CS_OFFL_SIR_LRM_2_20201108T001508_20201108T003638_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 records CS_OFFL_SIR_LRM_2_20201108T003641_20201108T003811_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 records | 2 for one or more |
|--|----------------------|
| | |
| | 2 for one or more |
| CS_OFFL_SIR_LRM_2_20201108T004934_20201108T005026_D001 Height Error (Retracker 2), Backscatter 2) There is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T010520_20201108T013840_D001 Height Error (Retracker 2), Height Error (Retracker 3), Height Error (Retracker 2), Height Error (Retracker 3), He | 2 and a height error |
| CS_OFFL_SIR_LRM_220201108T015447_20201108T021832_D001 Height Error (Retracker 2), He | 2 and a height error |
| CS_OFFL_SIR_LRM_220201108T025115_20201108T031640_D001 Height Error (Retracker 2), Backscatter 1 There is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T033405_20201108T034741_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T035213_20201108T035749_D001 Height Error (Retracker 2), Backscatter 1) There is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T035758_20201108T035840_D001 Height Error (Retracker 2), Surface model Unavailable There is a height and backscatter error for Retracker 2 Slope Model was used for the location of one or more | |
| CS_OFFL_SIR_LRM_220201108T042315_20201108T045651_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T051556_20201108T051921_D001 Height Error (Retracker 2), Backscatter 1) There is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T052559_20201108T052743_D001 Height Error (Retracker 2), Height Error (Retracker 3), Height Error (Retracker 2), Height Error (Retracker 3), He | 2 and a height error |
| CS_OFFL_SIR_LRM_220201108T053648_20201108T053931_D001 Height Error (Retracker 2), Backscatter 1 There is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T054628_20201108T055034_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T060150_20201108T061201_D001 Height Error (Retracker 2), Surface model unavailable There is a height and backscatter error for Retracker 2 Slope Model was used for the location of one or more | |
| CS_OFFL_SIR_LRM_220201108T061447_20201108T063603_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T070511_20201108T071228_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T071324_20201108T071730_D001 Height Error (Retracker 2), He | 2 and a height error |
| CS_OFFL_SIR_LRM_2_20201108T073933_20201108T074821_D001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable Retracker 3 and no DEM or Slope Model was used for or more records | |
| CS_OFFL_SIR_LRM_220201108T074910_20201108T081503_D001 Height Error (Retracker 2), Backscatter) There is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T083401_20201108T084632_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T084654_20201108T090418_D001 Height Error (Retracker 2), Backscatter) There is a height and backscatter error for Retracker 2 records | 2 for one or more |
| CS_OFFL_SIR_LRM_220201108T091852_20201108T091905_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of c | one or more records |

| CS_OFFL_SIR_LRM_220201108T091917_20201108T091941_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
|---|---|---|
| CS_OFTE_SIK_EKW_Z202011001091917_202011001091941_D001 | | |
| CS_OFFL_SIR_LRM_220201108T092156_20201108T092427_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T092542_20201108T093722_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_220201108T093926_20201108T095434_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T101106_20201108T101909_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T102759_20201108T104415_D001 | | 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_220201108T111851_20201108T113309_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T114846_20201108T122225_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T123537_20201108T124255_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220201108T124914_20201108T131010_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_220201108T132757_20201108T135355_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_220201108T142321_20201108T145114_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_220201108T150822_20201108T154116_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T155333_20201108T155557_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T160308_20201108T160415_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T160554_20201108T160732_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T164733_20201108T172055_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable | There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220201108T173313_20201108T173431_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T175237_20201108T180826_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T182606_20201108T190030_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T191308_20201108T191333_D001 | Height Error (Retracker 3), Surface model unavailable | There is a height error (Retracker 3) and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220201108T192349_20201108T192823_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T192905_20201108T194644_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T200547_20201108T201918_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T202039_20201108T202237_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T202718_20201108T203853_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220201108T204038_20201108T204145_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220201108T205414_20201108T211154_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
| | | |

| CS_OFFL_SIR_LRM_220201108T211331_20201108T212739_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |
|---|--|---|
| CS_OFFL_SIR_LRM_220201108T214431_20201108T215919_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_220201108T220147_20201108T221110_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable | There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220201108T223401_20201108T225012_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable | There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220201108T225618_20201108T230255_D001 | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_220201108T232428_20201108T233903_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | No. Products | No. QCC Reports | No. Valid | No. Warnings | No. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR_LRM_1B | 191 | 191 | 191 | 0 | 0 |
| SIR_SAR_1B | 110 | 110 | 110 | 0 | 0 |
| SIR_SIN_1B | 106 | 106 | 106 | 0 | 0 |
| SIR_LRM_2 | 187 | 187 | 179 | 8 | 0 |
| SIR_SAR_2 | 106 | 108 | 108 | 0 | 0 |
| SIR_SIN_2 | 108 | 106 | 104 | 2 | 0 |
| SIR_GDR_2 | 15 | 15 | 0 | 0 | 15 |

6.1 QCC Errors

Number of products with QCC errors: 15

| Product Type | MPHDUTNCDF | MPHXPFNCDF | MPHXVFNCDF | MPHYPFNCDF | MPHYVFNCDF | MPHZPFNCDF | MPHZVFNCDF | - | - | - | - |
|--------------|------------|------------|------------|------------|------------|------------|------------|---|---|---|---|
| SIR_GDR_2_ | 15 | 15 | 15 | 15 | 15 | 15 | 15 | - | | | |

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

6.2 QCC Warnings

Number of QCC reports with warnings

10

Total number of occurrences of each warning

| | | | | | 3 | | |
|------------|----------|-----------|---|---|---|---|---|
| Product Ty | pe AXDME | AXSMMEOCI | - | - | - | - | - |
| SIR_LRM_2 | 2_ 0 | 8 | | | | | |
| SIR_SIN_2 | 2_ 2 | 0 | | | | | |

| Test Description Key: | | | | | |
|-----------------------|--|--|--|--|--|
| Abbreviation | Test name | Details | | | |
| AXDME | AttributeXrefDemMustExist | The xref_dem attribute is mandatory in SIN products over continental ice | | | |
| AXSMMEOCI | AttributeXrefSlopeModelMustExistOverContinentalIce | The xref_slope_model is mandatory in LRM products over continental ice | | | |

6.2 Missing QCC Reports

Number of products with missing QCC reports:

0