

28/03/2021



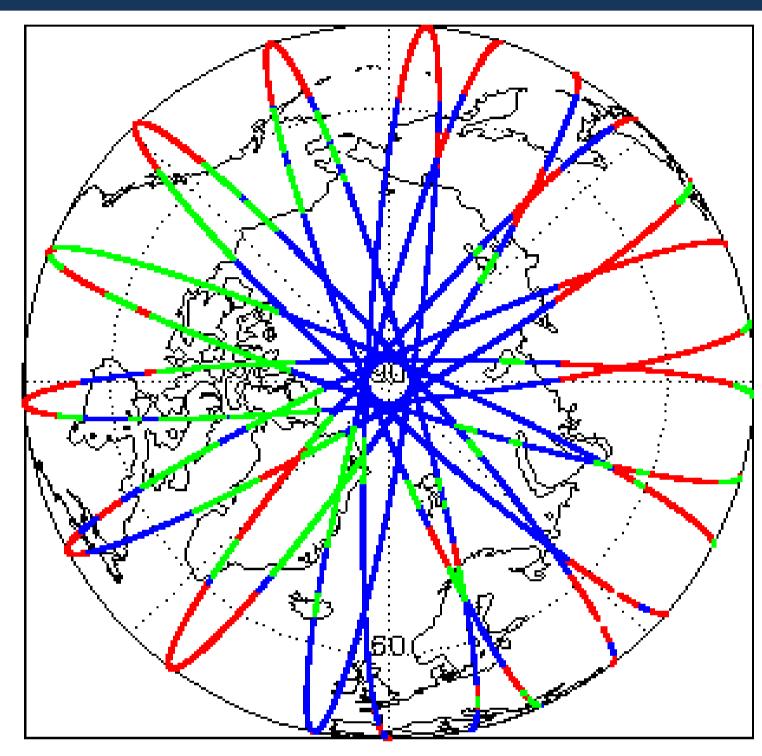
1. Overview

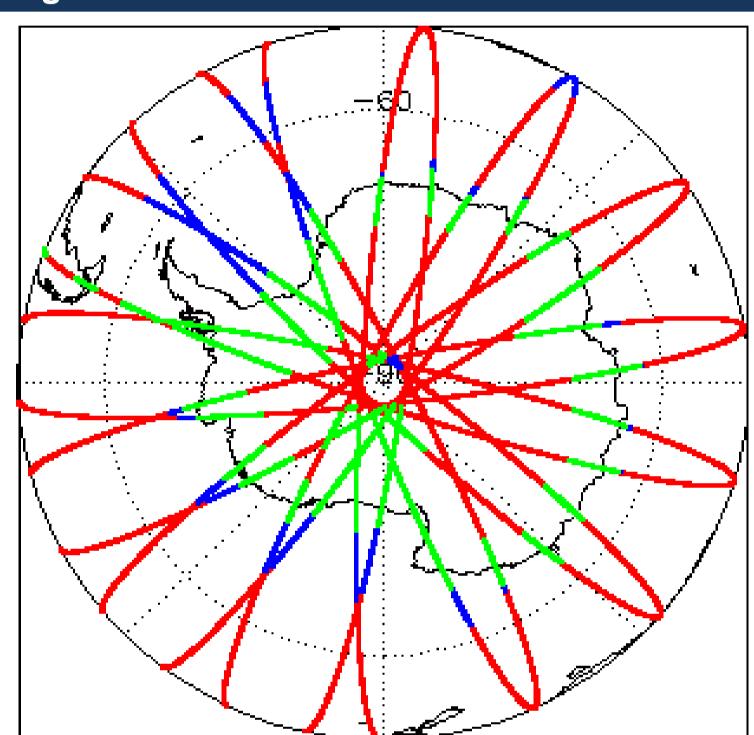
Report Production Date:	28-Apr-2021		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

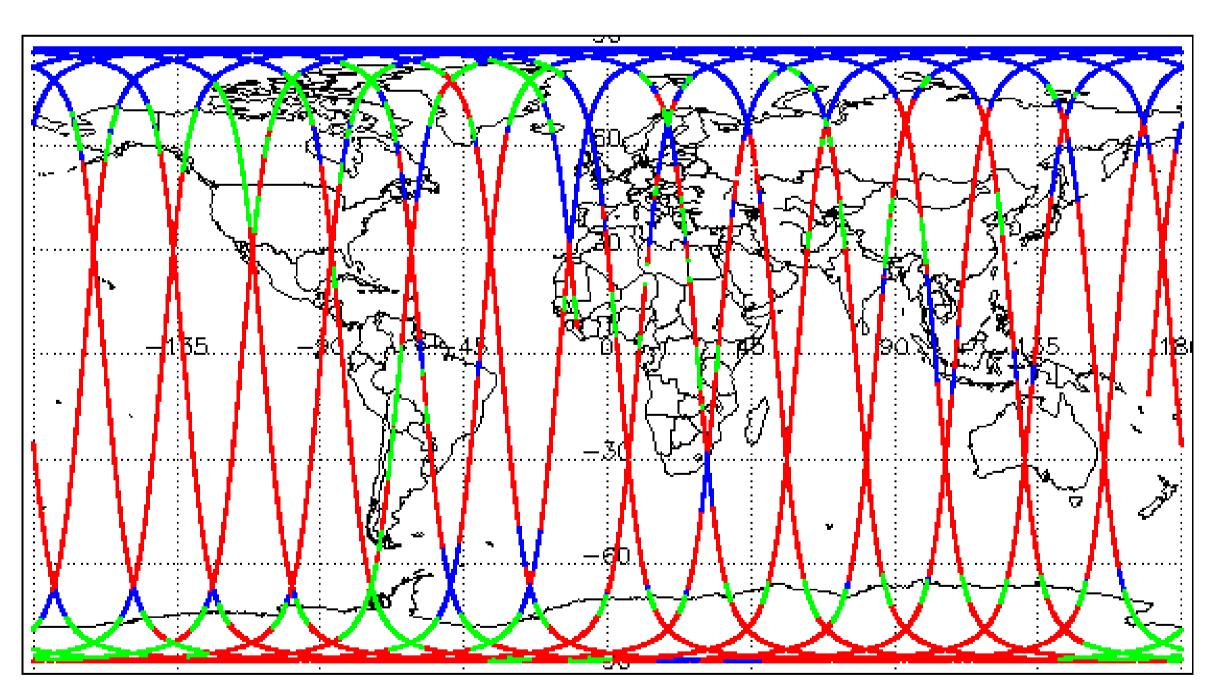
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	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

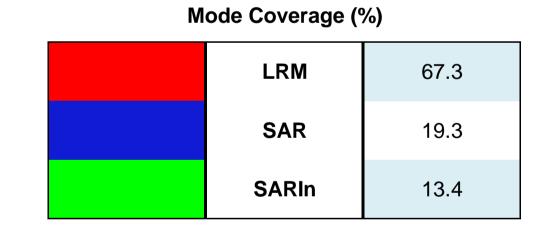
Mission / Instrument News							
27-Mar-2021	SIR2SIN Data Gap due to Ground Segment Anomaly from 02:49:54 to 05:20:48						
28-Mar-2021	None						
29-Mar-2021	Nothing planned						

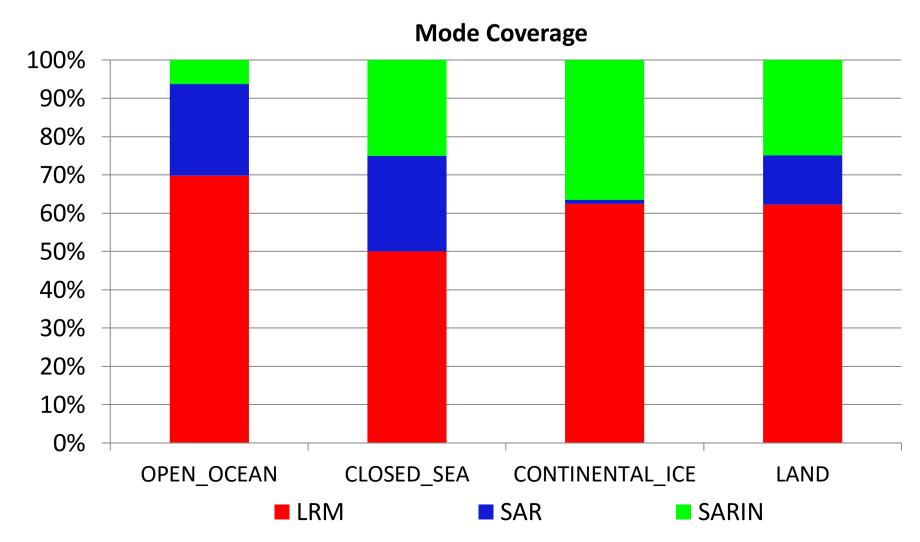
2. Global Coverage

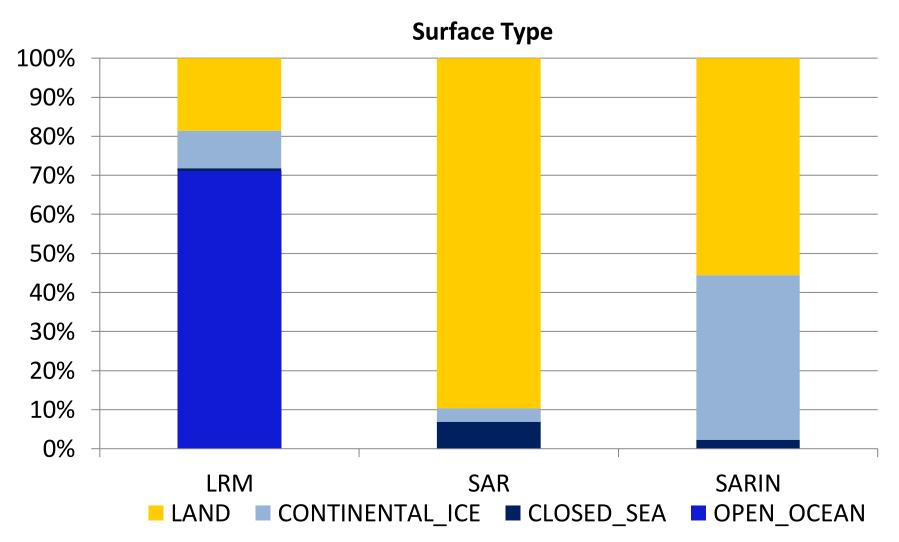












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

4. Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

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

Number of products with errors:

4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 L1B Tracking Flags Check

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

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

Number of products with errors:

121

0

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210327T235357_20210328T000009_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T000148_20210328T000630_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T002828_20210328T002833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T002835_20210328T002837_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T002840_20210328T002941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T020658_20210328T020731_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T020737_20210328T020814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T020817_20210328T020824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T020831_20210328T020840_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T020843_20210328T020919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T020923_20210328T020933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T021318_20210328T022621_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T022623_20210328T022701_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T022813_20210328T024402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T030020_20210328T031026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T031133_20210328T031410_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T031645_20210328T032810_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T034541_20210328T034903_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T034905_20210328T034928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T034931_20210328T034938_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T034940_20210328T035012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T035014_20210328T035023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T035026_20210328T035027_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T035032_20210328T035043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T035046_20210328T035433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T035436_20210328T040311_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T043648_20210328T050023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T050145_20210328T051013_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T051248_20210328T051322_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T052415_20210328T053012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T053015_20210328T053101_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T053104_20210328T053129_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T053132_20210328T053215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T053316_20210328T053354_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T053813_20210328T053837_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T061523_20210328T064417_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T064419_20210328T064429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T070706_20210328T071411_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T071517_20210328T074154_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T074840_20210328T075207_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T084559_20210328T084847_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_1B_20210328T084921_20210328T085100_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T085204_20210328T085212_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T085217_20210328T085545_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T085547_20210328T085548_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T085550_20210328T090213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T090215_20210328T090223_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T090419_20210328T091054_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T092328_20210328T092906_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T093412_20210328T100814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T102403_20210328T102407_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T102755_20210328T102904_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T102932_20210328T103011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T103335_20210328T103505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T103649_20210328T104059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T104137_20210328T110119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T111319_20210328T114759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T114912_20210328T115038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T121237_20210328T121707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T121754_20210328T123530_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T124458_20210328T124706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T125403_20210328T130958_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T131001_20210328T131003_D001	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_20210328T132810_20210328T132859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T132902_20210328T132906_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T132908_20210328T132912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T132914_20210328T132938_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T132941_20210328T132941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T132945_20210328T132949_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T132951_20210328T133036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T140221_20210328T141553_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T142417_20210328T142615_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T143258_20210328T144836_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T150310_20210328T150550_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T150552_20210328T150628_D001		
33 311 E 311 EIXIVI 10 EVETUJEUT 1300JE ZUETUJEUT 1300ZO DUUT	Loss of echo	The tracking echo is missing for one or more records
	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_20210328T150631_20210328T150641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_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
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CS_OFFL_SIR_LRM_1B_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T163557_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T154951_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164200_20210328T164333_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T1640233_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T166613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T166613_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T154951_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T163557_20210328T163655_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164335_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T1643616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T165000_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T165000_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T165000_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T154951_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T163557_20210328T163655_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T1643616_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164600_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164600_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164600_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T154951_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164201_20210328T164203_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164348_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164365_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164365_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164300_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164030_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T16400_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T16400_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T170540_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T170540_20210328T174308_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T155914_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155014_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T165358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T164020_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T1640613_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T1640613_D001 CS_OFFL_SIR_LRM_1B_20210328T1640616_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174321_20210328T174913_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T154951_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T163557_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164353_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164355_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T1643616_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T1643616_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T16400_20210328T173829_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T173829_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T181727_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T181727_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T182536_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T154951_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T163655_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T1642323_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164345_D001 CS_OFFL_SIR_LRM_1B_20210328T164328_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164013_D001 CS_OFFL_SIR_LRM_1B_20210328T170540_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T181727_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T182536_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T182536_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T182536_D001 CS_OFFL_SIR_LRM_1B_20210328T182425_20210328T184539_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T155911_20010 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T16020_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164233_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164355_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164328_D001 CS_OFFL_SIR_LRM_1B_20210328T164200_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T174321_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174321_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174321_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174321_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T184539_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T152748_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T154951_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155300_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T161020_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164201_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164216_D001 CS_OFFL_SIR_LRM_1B_20210328T164220_20210328T164332_D001 CS_OFFL_SIR_LRM_1B_20210328T164247_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164352_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T16400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T16400_20210328T164613_D001 CS_OFFL_SIR_LRM_1B_20210328T164616_20210328T174398_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T184539_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T184531_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T195224_D001	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_20210328T150631_20210328T150641_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T151022_D001 CS_OFFL_SIR_LRM_1B_20210328T150644_20210328T153921_D001 CS_OFFL_SIR_LRM_1B_20210328T155748_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155011_D001 CS_OFFL_SIR_LRM_1B_20210328T155014_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155152_20210328T155149_D001 CS_OFFL_SIR_LRM_1B_20210328T155304_20210328T155358_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T16020_D001 CS_OFFL_SIR_LRM_1B_20210328T160233_20210328T16020_D001 CS_OFFL_SIR_LRM_1B_20210328T164025_20210328T164026_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164031_20210328T164201_D001 CS_OFFL_SIR_LRM_1B_20210328T164203_20210328T164208_D001 CS_OFFL_SIR_LRM_1B_20210328T164210_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164320_20210328T164323_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T164347_20210328T164350_D001 CS_OFFL_SIR_LRM_1B_20210328T1643616_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164356_D001 CS_OFFL_SIR_LRM_1B_20210328T164400_20210328T164013_D001 CS_OFFL_SIR_LRM_1B_20210328T1640616_20210328T16408_D001 CS_OFFL_SIR_LRM_1B_20210328T1640616_20210328T16408_D001 CS_OFFL_SIR_LRM_1B_20210328T1640616_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T170540_20210328T174308_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T174055_20210328T174913_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T1845516_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T1845611_D001 CS_OFFL_SIR_LRM_1B_20210328T184245_20210328T1846611_D001 CS_OFFL_SIR_LRM_1B_20210328T184843_20210328T1846611_D001	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_20210328T195716_20210328T195815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T195817_20210328T195821_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T195825_20210328T195829_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T195833_20210328T200019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T200100_20210328T200242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T200316_20210328T200541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T211944_20210328T212318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T212323_20210328T212453_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T212751_20210328T213314_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T213854_20210328T213857_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T213900_20210328T213933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T213952_20210328T214122_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T214122_20210328T214225_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T214555_20210328T214557_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T231130_20210328T231638_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210328T231716_20210328T231839_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210328T175136_20210328T181727_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210328T195706_20210328T195713_D001	Echo error, TRK 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: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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: 53

Number of products with errors: 53 Product	Test Failed	Description
rioduct	Height Error (Retracker 2), Height Error	Description
CS_OFFL_SIR_LRM_220210328T000148_20210328T000630_D001	(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_220210328T003124_20210328T010443_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_220210328T011816_20210328T011951_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_220210328T012250_20210328T015308_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_220210328T021318_20210328T022621_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_220210328T022623_20210328T022701_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_220210328T022813_20210328T024402_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_220210328T030020_20210328T031026_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_220210328T031645_20210328T032810_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_220210328T032958_20210328T033142_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210328T035436_20210328T040311_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_220210328T040352_20210328T040635_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_220210328T040814_20210328T042301_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_220210328T043648_20210328T050023_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_220210328T050145_20210328T051013_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_220210328T053104_20210328T053129_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210328T053933_20210328T060233_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_220210328T061523_20210328T064417_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_220210328T071517_20210328T074154_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_220210328T075449_20210328T082931_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_220210328T085550_20210328T090213_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_220210328T092328_20210328T092906_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210328T093412_20210328T100814_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_220210328T102204_20210328T102259_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_220210328T102932_20210328T103011_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_220210328T104137_20210328T110119_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_220210328T111319_20210328T114759_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_220210328T121237_20210328T121707_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_220210328T121754_20210328T123530_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_220210328T123826_20210328T124007_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_220210328T125403_20210328T130958_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_220210328T131006_20210328T132327_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_220210328T134305_20210328T140122_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_220210328T140221_20210328T141553_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_220210328T143258_20210328T144836_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_220210328T145038_20210328T150000_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_220210328T152748_20210328T153921_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_220210328T154525_20210328T154555_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210328T161209_20210328T162741_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_220210328T164616_20210328T165000_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210328T170540_20210328T173829_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_220210328T175136_20210328T181727_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_220210328T184843_20210328T191732_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_220210328T193021_20210328T195224_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_220210328T195227_20210328T195704_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_220210328T202309_20210328T205638_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_220210328T213458_20210328T213617_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_220210328T220137_20210328T223602_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_220210328T224819_20210328T230818_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_220210328T231130_20210328T231638_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_220210328T231716_20210328T231839_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_2__20210328T231958_20210328T232006_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_2__20210328T234006_20210329T001348_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	183	183	183	0	0
SIR_SAR_1B	118	118	118	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_LRM_2	183	183	181	2	0
SIR_SAR_2	109	117	117	0	0
SIR_SIN_2	117	109	107	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

14

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
SIR_GDR_2_	14	14	14	14	14	14	14	-			

Test 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

5

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
SIR_GDR_2_	0	1					
SIR_LRM_2_	0	2					

Test Description Key:	st 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:

1

Product name

CS_OFFL_SIR_GDR_2__20210328T230641_20210329T004556_D002