

## 1. Overview

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

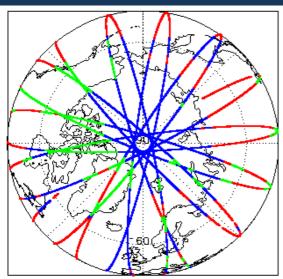
#### We would love to hear from you!

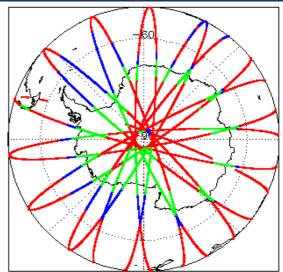
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

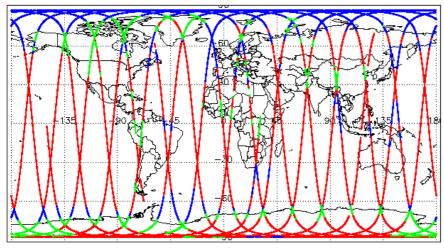
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	See Section 4.5
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	See Section 4.7 and 5.4
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

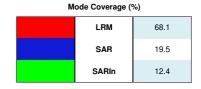
Ì	Mission / Instru	ment News
	28-Jan-2023	None
	29-Jan-2023	Ground segment anomaly - check unavailabilities webpage for more info
	30-Jan-2023	Nothing planned

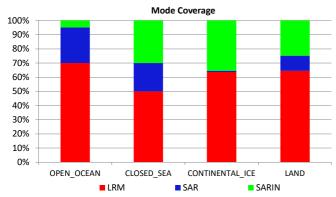
# 2. Global Coverage

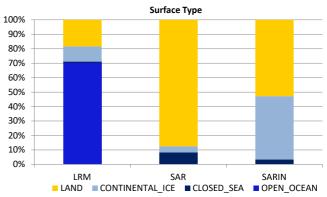












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

# 4. Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Number of products with errors:

### 4.2 L1B Product Header Analysis

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

Number of products with errors:

Not 0!

### 4.3 Star Tracker Usage Check

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

Number of products with errors:

0

# 4.4 L1B 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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20230128T235958_20230129T000014_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T000348_20230129T001011_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T002120_20230129T002651_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T012233_20230129T012252_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T012607_20230129T012650_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T012700_20230129T012711_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T013008_20230129T013302_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T013445_20230129T013716_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T020040_20230129T020549_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T021135_20230129T024530_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T024730_20230129T024736_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T024738_20230129T024808_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T024812_20230129T024827_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T034258_20230129T034453_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T035144_20230129T040541_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T040702_20230129T040914_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T042552_20230129T042608_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T042612_20230129T042615_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T042618_20230129T042644_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T042648_20230129T042711_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T042714_20230129T042747_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T042749_20230129T042751_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T042753_20230129T042827_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T050012_20230129T051421_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T052201_20230129T052405_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T053054_20230129T054541_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T054823_20230129T055747_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060024_20230129T060216_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060218_20230129T060228_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060230_20230129T060236_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060238_20230129T060252_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060256_20230129T060258_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060300_20230129T060304_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060309_20230129T060312_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060315_20230129T060318_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060321_20230129T060332_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060335_20230129T060339_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060342_20230129T060427_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060429_20230129T060435_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T060437_20230129T060812_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T062247_20230129T062357_E001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_1B_20230129T062614_20230129T063713_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T064256_20230129T065038_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T073346_20230129T073449_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T073451_20230129T073457_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T073459_20230129T073513_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T073853_20230129T073927_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T073929_20230129T073934_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T073959_20230129T074011_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074013_20230129T074015_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074021_20230129T074032_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074038_20230129T074111_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074113_20230129T074137_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074141_20230129T074148_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074153_20230129T074205_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074210_20230129T074253_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074258_20230129T074409_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T074412_20230129T074729_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T080221_20230129T081257_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T081259_20230129T083614_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T083846_20230129T084052_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T084125_20230129T084653_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T084931_20230129T091441_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T091837_20230129T092402_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T092510_20230129T092523_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T094611_20230129T094625_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T094627_20230129T101413_E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T102832 20230129T105636 E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T105638 20230129T105639 E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T105641_20230129T105645_E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T105647 20230129T105742 E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T105745 20230129T105751 E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T105753_20230129T110038_E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T120005 20230129T120535 E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T121629 20230129T122506 E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T122609_20230129T123110_E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T123704 20230129T123753 E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T123842_20230129T123913_E001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20230129T123913 20230129T124013 E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T140930_20230129T141421_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T141450_20230129T141634_E001	Loss of echo	The tracking echo is missing for one or more records  The tracking echo is missing for one or more records
	Loss of echo	
CS_OFFL_SIR_LRM_1B_20230129T143544_20230129T143621_E001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T143623_20230129T143631_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T143800_20230129T151131_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T151928_20230129T152322_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T161418_20230129T161625_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T161627_20230129T161633_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T163331_20230129T163652_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T163807_20230129T165108_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T170838_20230129T172147_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T172401_20230129T173613_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175317_20230129T175328_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175330_20230129T175400_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175402_20230129T175405_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175407_20230129T175417_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175421_20230129T175644_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175646_20230129T175706_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175710_20230129T175712_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175715_20230129T175802_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175805_20230129T175807_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175809_20230129T175820_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175824_20230129T175830_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175833_20230129T175843_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175846_20230129T175853_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T175858_20230129T175907_E001	Loss of echo	The tracking echo is missing for one or more records

CS. OFFL. SIR. LRM. 18. 20201297193151 2020129718050 E001  CS. OFFL. SIR. LRM. 18. 2020129718051 2020129719050 E001  CS. OFFL. SIR. LRM. 18. 2020129719051 2020129719031 E001  CS. OFFL. SIR. LRM. 18. 2020129719051 2020129719032 E001  CS. OFFL. SIR. LRM. 18. 2020129719052 E001  CS. OFFL. SIR. LRM. 18. 2020129719052 2020129719034 E001  CS. OFFL. SIR. LRM. 18. 2020129719052 2020129719054 E001  CS. OFFL. SIR. LRM. 18. 20201297190505 2020129719054 E001  CS. OFFL. SIR. LRM. 18. 20201297190508 2020129719054 E001  CS. OFFL. SIR. LRM. 18. 20201297190505 20201297190505 2001  CS. OFFL. SIR. LRM. 18. 202012971970505 20201297190	CS_OFFL_SIR_LRM_1B_20230129T175909_20230129T180014_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LIM_18_20230129715830_202301297158026_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297158012_202301297159012_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159012_202301297159014_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_2023012971590312_202301297159014_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159032_E00310297159014_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159038_202301297159014_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159038_202301297159014_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159038_202301297159014_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159038_202301297159114_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159012_202301297159114_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LIM_18_202301297159012_2023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C023012971591312_C02301297159051_C023012971591312_C0230129715913	CS_OFFL_SIR_LRM_1B_20230129T180327_20230129T181351_E001	Loss of echo	The tracking echo is missing for one or more records
SS_OFF_SIR_LRM_1B_202301297193025_202301297193031_E001	CS_OFFL_SIR_LRM_1B_20230129T181531_20230129T182954_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LRM_IB_20230129T190372_720230129T190381_E001  CS_OFF_SIR_LRM_IB_20230129T190312_20230129T190314_E001  CS_OFF_SIR_LRM_IB_20230129T190312_20230129T1903312_E001  CS_OFF_SIR_LRM_IB_20230129T190314_20230129T190335_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190355_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190355_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190355_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190355_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190414_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190414_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190414_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190414_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190414_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T1903112_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T1903122023029T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190349_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190324_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190324_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190324_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190324_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190317_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190327_E001  CS_OFF_SIR_LRM_IB_20230129T190326_20230129T190327_E001  CS_OFF_SIR_LRM_IB_20230129T190328_20230129T190327_E001  CS_OFF_SIR_LRM_IB_20230129T190436_20230129T190327_E001  CS_OFF_SIR_LRM_IB_20230129T100436_20230129T100436_2001  CS_OFF_SIR_LRM_IB_20230129T20055_20230129T2050313_E001  CS_OFF_SIR_LRM_IB_20230129T20	CS_OFFL_SIR_LRM_1B_20230129T184838_20230129T185026_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LEM_1B_20230129T190312_20230129T190332_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T190312_20230129T190332_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T190312_20230129T190335_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T190342_20230129T190345_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T190402_20230129T190141_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T190402_20230129T190141_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T190402_20230129T193137_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T193027_20230129T193317_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T193025_20230129T193828_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T193054_20230129T193828_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T193054_20230129T193828_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T193054_20230129T19302_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T193030_20230129T19406_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T193030_20230129T19406_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T194030_20230129T19406_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T19402_20230129T19462_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_1B_20230129T194042_20230129T19462_E001 Loss of echo The tracking ech	CS_OFFL_SIR_LRM_1B_20230129T185310_20230129T185804_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20230129T190382_20230129T190347_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T190382_20230129T190347_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T190382_20230129T190347_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T190340_20230129T190414_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T199040_20230129T190414_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T199040_20230129T191614_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193012_20230129T193017_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193021_20230129T193017_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193082_20230129T193021_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193082_20230129T193021_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193082_20230129T193021_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193030_20230129T19466_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193030_20230129T19466_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T194438_20230129T194662_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T201302_20230129T194662_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T201302_20230129T194682_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T201302_20230129T204932_E001  Loss of	CS_OFFL_SIR_LRM_1B_20230129T190257_20230129T190301_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20230129T190345_20230129T19034_E001	CS_OFFL_SIR_LRM_1B_20230129T190312_20230129T190314_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20230129T190349_20230129T190451_E001	CS_OFFL_SIR_LRM_1B_20230129T190318_20230129T190323_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20230129T190358_20230129T190414_E001	CS_OFFL_SIR_LRM_1B_20230129T190325_20230129T190347_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T19040_20230129T190741_E001	CS_OFFL_SIR_LRM_1B_20230129T190349_20230129T190355_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T190904_20230129T1913137_E001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193057_20230129T193051_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T1930542_20230129T193054_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T1930542_20230129T193054_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193084_20230129T193054_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T19396_E0230129T193928_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193926_20230129T193928_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194458_E0230129T194529_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194452_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194529_E0230129T194529_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T201238_E0230129T201638_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T201700_20230129T204932_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_E0230129T204932_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_E0230129T204932_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_E0230129T20538_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225532_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225533_20230129T22555_E001 Loss of echo The tracking echo is missing for one or	CS_OFFL_SIR_LRM_1B_20230129T190358_20230129T190414_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20230129T193112_20230129T193817_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T193824_20230129T193822_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T193824_20230129T193931_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T193932_20230129T193931_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T193932_20230129T193932_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T193932_E0230129T193932_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T193939_20230129T194446_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T194436_20230129T194452_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T194432_20230129T194629_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T10238_20230129T194629_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T201238_20230129T201638_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T202435_20230129T204935_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T204935_20230129T204935_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T204935_20230129T205435_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T20522_20230129T25551_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T25555_20230129T25555_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20230129T225683_20230129T25555_E	CS_OFFL_SIR_LRM_1B_20230129T190420_20230129T190741_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20230129T193207_20230129T193651_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193824_20230129T1939313_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193936_20230129T193921_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193936_20230129T193928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T193930_20230129T194046_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T194329_20230129T194527_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T194529_20230129T194527_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T194529_20230129T194529_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T201239_20230129T201909_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T201700_20230129T201909_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T20255_20230129T204932_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T204935_20230129T205133_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T204935_20230129T205133_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T215952_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T225635_20230129T225655_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20230129T225685_20230129T225855_E001  Loss of echo  The tra	CS_OFFL_SIR_LRM_1B_20230129T190904_20230129T191614_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T193824_20230129T1939313_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193916_20230129T193928_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193936_20230129T193928_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193930_20230129T193928_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194496_20230129T194527_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194529_20230129T194527_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194529_20230129T194629_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T201238_20230129T201638_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T201238_20230129T204932_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T202255_20230129T204932_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T202255_20230129T204932_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_20230129T205736_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T25559_20230129T25501_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225610_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225685_20230129T225685_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225685_20230129T225685_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225685_20230129T225685_E001 Loss of echo The tracki	CS_OFFL_SIR_LRM_1B_20230129T193112_20230129T193137_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T193824_20230129T193913_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193926_20230129T193928_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T193930_20230129T194046_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194436_20230129T194527_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T194529_20230129T194527_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T201238_20230129T194529_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T201238_20230129T201538_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T201238_20230129T201909_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T202552_20230129T204932_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T202552_20230129T205133_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T202522_20230129T205738_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T211444_20230129T21920_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T215259_20230129T2559E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225593_20230129T22559E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225593_20230129T22559E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225593_20230129T225595_E001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225593_20230129T225595_E001 Loss of echo The tracking echo	CS_OFFL_SIR_LRM_1B_20230129T193207_20230129T193651_E001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20230129T201700_20230129T201909_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T202555_20230129T204932_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_20230129T205133_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_20230129T205736_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T211444_20230129T211920_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T215559_20230129T215925_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T22539_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T22539_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225833_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225803_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  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_20230129T194529_20230129T194629_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T20255_20230129T205133_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_20230129T205736_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_20230129T205736_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T211444_20230129T211920_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T215559_20230129T215925_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225239_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T201238_20230129T201638_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T204935_20230129T205133_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T205222_20230129T21920_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T211444_20230129T211920_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T215559_20230129T215925_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225239_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225834_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T201700_20230129T201909_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T205222_20230129T205736_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T211444_20230129T215925_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T22559_20230129T215925_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225239_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T22598_E001  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_20230129T202255_20230129T204932_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T211444_20230129T211920_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225559_20230129T215925_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225239_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  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_20230129T204935_20230129T205133_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T215559_20230129T215925_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225239_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  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_20230129T205222_20230129T205736_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T225239_20230129T225610_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  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_20230129T211444_20230129T211920_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225752_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  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_20230129T215559_20230129T215925_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  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_20230129T225239_20230129T225610_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T225644_20230129T225752_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T225835_20230129T225850_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225941_E001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T225853_20230129T225855_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T225900_20230129T225928_E001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20230129T225933_20230129T225941_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T230001_20230129T230001_E001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T225943_20230129T225958_E001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20230129T230001_20230129T230001_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T230003_20230129T231942_E001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T230003_20230129T231942_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20230129T233030_20230129T233832_E001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20230129T233030_20230129T233832_E001	Loss of echo	The tracking echo is missing for one or more records

### 4.5 L1B Calibration Usage Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20230129T073513_20230129T073520_E001	Cal1 Correction missing	The Cal1 correction has not been applied for one or more records

## 4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

## 4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

### 4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20230129T180327_20230129T181351_E001	IECHO error TBK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

## 5. Level 2 Data Quality Check

### 5.1 L2 Product Format Check

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

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors: Not 0

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

Number of products with errors:

00

Product	Test Failed	Description
CS_OFFL_SIR_SAR_2_20230129T001011_20230129T001309_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T001431_20230129T001630_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T001918_20230129T002002_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T003009_20230129T003250_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T010615_20230129T011642_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T011857_20230129T011955_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T012252_20230129T012540_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T012757_20230129T013008_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T015835_20230129T015924_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T020902_20230129T021135_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T024530_20230129T024723_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T024725_20230129T024730_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T025542_20230129T031029_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T033324_20230129T034022_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T035029_20230129T035144_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T040541_20230129T040619_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T040626_20230129T040702_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T040914_20230129T041355_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T042051_20230129T042101_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T042109_20230129T042236_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T042302_20230129T042304_E001	corr, Inverse barometric corr, Dynamic atm corr, Model Ionospheric corr, Solid	There is an error with the values of the correction error flags on the left, fo one or more records.
CS_OFFL_SIR_SAR_220230129T042306_20230129T042515_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T042516_20230129T042552_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T044048_20230129T044104_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T045832_20230129T050012_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T051422_20230129T051913_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T053044_20230129T053054_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T054542_20230129T054823_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T061812_20230129T062247_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T062357_20230129T062614_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T065659_20230129T065751_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T070958_20230129T071031_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model

CS_OFFL_SIR_SAR_2_20230129T072546_20230129T073346_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T080002_20230129T080221_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T083614_20230129T083659_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T084920_20230129T084931_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS OFFL SIR SAR 2 20230129T101413 20230129T101629 E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS OFFL SIR SAR 2 20230129T102818 20230129T102832 E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
	·	falls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T110319_20230129T110525_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T110637_20230129T111624_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T115339_20230129T115636_E001	Snow depth model	falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T120652_20230129T120732_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T121324_20230129T121629_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T123406_20230129T123518_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T123636_20230129T123701_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T124013_20230129T124312_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T124630_20230129T125516_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T125719_20230129T125832_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T125915_20230129T125954_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS OFFL SIR SAR 2 20230129T133324 20230129T133547 E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS OFFL SIR SAR 2 20230129T134546 20230129T134628 E001	Snow depth model	falls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
	·	falls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_2_20230129T141421_20230129T141449_E001	Snow depth model	falls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T141635_20230129T141950_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T141950_20230129T142606_E001	Snow depth model	Talls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_2_20230129T143632_20230129T143800_E001	Snow depth model	falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T151131_20230129T151256_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T151909_20230129T151915_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T151923_20230129T151928_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T152432_20230129T152713_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T160144_20230129T160203_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T161634_20230129T161647_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T161649_20230129T162131_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T162850_20230129T163331_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_2_20230129T163652_20230129T163807_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS OFFL SIR SAR 2 20230129T165108 20230129T165114 E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS OFFL SIR SAR 2 20230129T165809 20230129T165815 E001	Snow depth model	falls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
CS OFFL SIR SAR 2 20230129T165822 20230129T165828 E001		falls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
	Snow depth model	falls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T170221_20230129T170838_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_2_20230129T172148_20230129T172401_E001	Snow depth model	Talls outside of the extent of the current snow depth model  There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_2_20230129T173613_20230129T173846_E001	Snow depth model	falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T191737_20230129T191944_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T194629_20230129T194753_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T200923_20230129T200937_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T202153_20230129T202255_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T214853_20230129T214911_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T220046_20230129T220250_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T225101_20230129T225239_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220230129T225752_20230129T225835_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T231942_20230129T232220_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS OFFL SIR SAR 2 20230129T232827 20230129T232906 E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220230129T233944_20230129T234218_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
	·	falls outside of the extent of the current snow depth model
CS OFFL SIR SIN 2 20230129T020549 20230129T020902 E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records

CS_OFFL_SIR_SIN_220230129T034022_20230129T034258_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_2_20230129T034453_20230129T035029_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220230129T051913_20230129T052201_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220230129T115636_20230129T120005_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220230129T133547_20230129T133908_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_2_20230129T170024_20230129T170220_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records

## 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors: 209

Height Error (Retracker 2), Backscatter Error (Retracker 2), Backs	e records  more  more  more
CS_OFFL_SIR_LRM_2_20230129T003250_20230129T010615_E001  Height Error (Retracker 2), Backscatter Fror (Retracker 2), Backscatter Fror (Retracker 2)  CS_OFFL_SIR_LRM_2_20230129T011955_20230129T012111_E001  Height Error (Retracker 2), Backscatter Fror (Retracker 2), Backscatter Fror (Retracker 2)  Height Error (Retracker 2), Backscatter Fror (Retracker 2), Backscatter Fror (Retracker 2)  Height Error (Retracker 2), Backscatter Fror (Retracker 2)	r more
Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20230129T011955_20230129T012111_E001 Error (Retracker 2), Backscatter Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20230129T013916_20230129T012111_E001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one of records  CS_OFFL_SIR_LRM_2_20230129T013916_20230129T015835_E001	more more
Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20230129T013916_20230129T015835_F001  Height Error (Retracker 2), Backscatter  There is a height and backscatter error for Retracker 2 for one of	more
Error (Retracker 2) records	aht error
CS_OFFL_SIR_LRM_2_20230129T021135_20230129T024530_E001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3) (Retrack	
CS_OFFL_SIR_LRM_2_20230129T031029_20230129T031506_E001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3) (Retrack	ight error
CS_OFFL_SIR_LRM_2_20230129T031545_20230129T033324_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one of records	more
CS_OFFL_SIR_LRM_2_20230129T035144_20230129T040541_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one of records	more
CS_OFFL_SIR_LRM_2_20230129T040702_20230129T040914_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one of records	more
CS_OFFL_SIR_LRM_2_20230129T041355_20230129T042050_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or records	more
CS_OFFL_SIR_LRM_2_20230129T042714_20230129T042747_E001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more	e records
CS_OFFL_SIR_LRM_2_20230129T044104_20230129T045832_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or records	more
CS_OFFL_SIR_LRM_2_20230129T050012_20230129T051421_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or records	more
CS_OFFL_SIR_LRM_2_20230129T053054_20230129T054541_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or records	more
CS_OFFL_SIR_LRM_2_20230129T054823_20230129T055747_E001	ight error
CS_OFFL_SIR_LRM_2_20230129T062247_20230129T062357_E001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more	e records
CS_OFFL_SIR_LRM_2_20230129T062614_20230129T063713_E001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3) (Retrack	ight error
CS_OFFL_SIR_LRM_2_20230129T064256_20230129T065038_E001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3) (Retrack	ight error
CS_OFFL_SIR_LRM_2_20230129T065221_20230129T065658_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or records	more
CS_OFFL_SIR_LRM_2_20230129T080221_20230129T081257_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or records	more
CS_OFFL_SIR_LRM_2_20230129T081259_20230129T083614_E001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or records	more
CS_OFFL_SIR_LRM_2_20230129T084931_20230129T091441_E001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3) for one or more records	ight error

CS_OFFL_SIR_LRM_220230129T094627_20230129T101413_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T102832_20230129T105636_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220230129T112024_20230129T115339_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20230129T125954_20230129T133324_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T134628_20230129T140602_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T140930_20230129T141421_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T141450_20230129T141634_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220230129T143544_20230129T143621_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220230129T143800_20230129T151131_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220230129T152713_20230129T160144_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T161418_20230129T161625_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220230129T162131_20230129T162850_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T163331_20230129T163652_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T163807_20230129T165108_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20230129T170838_20230129T172147_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220230129T172401_20230129T173613_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220230129T173920_20230129T174005_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T180327_20230129T181351_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20230129T181531_20230129T182954_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20230129T185310_20230129T185804_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T190420_20230129T190741_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T190904_20230129T191614_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T193654_20230129T193822_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20230129T194753_20230129T200923_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20230129T202255_20230129T204932_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T212333_20230129T214852_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T220250_20230129T223525_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220230129T230003_20230129T231942_E001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220230129T234218_20230130T001548_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_SAR_2_20230129T001011_20230129T001309_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T001431_20230129T001630_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T001918_20230129T002002_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T003009_20230129T003250_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T010615_20230129T011642_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records

CS_OFFL_SIR_SAR_220230129T011642_20230129T011806_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T011857_20230129T011955_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T012252_20230129T012540_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T012757_20230129T013008_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T015835_20230129T015924_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T020902_20230129T021135_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T024530_20230129T024723_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T024855_20230129T025542_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T025542_20230129T031029_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T033324_20230129T034022_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T035029_20230129T035144_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T040541_20230129T040619_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T040626_20230129T040702_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T040914_20230129T041355_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T042109_20230129T042236_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T042306_20230129T042515_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T042827_20230129T042953_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T043006_20230129T043359_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T043359_20230129T043544_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T044048_20230129T044104_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T045832_20230129T050012_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T051422_20230129T051913_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T053044_20230129T053054_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T054542_20230129T054823_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T060812_20230129T060906_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T060907_20230129T060930_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T060930_20230129T061452_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T061812_20230129T062247_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T062357_20230129T062614_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T065659_20230129T065751_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T070958_20230129T071031_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T072546_20230129T073346_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T074729_20230129T075408_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T080002_20230129T080221_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records

CS_OFFL_SIR_SAR_2_20230129T083614_20230129T083659_E001	Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 for one or more records
CS OFFL SIR SAR 2 20230129T084920 20230129T084931 E001	Backscatter Error (Retracker 3)  Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 for one or more records
	Backscatter Error (Retracker 3)  Backscatter Error (Retracker 2),	
CS_OFFL_SIR_SAR_220230129T092523_20230129T092736_E001	Backscatter Error (Retracker 3)  Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T092801_20230129T092900_E001	Backscatter Error (Retracker 3)  Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T092928_20230129T093424_E001	Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T101413_20230129T101629_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T102818_20230129T102832_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T110319_20230129T110525_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T110637_20230129T111624_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T115339_20230129T115636_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T120652_20230129T120732_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T121324_20230129T121629_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T123406_20230129T123518_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T123636_20230129T123701_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T124013_20230129T124312_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T124630_20230129T125516_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T125915_20230129T125954_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T133324_20230129T133547_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T134546_20230129T134628_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T141421_20230129T141449_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T141635_20230129T141950_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T141950_20230129T142606_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T142759_20230129T143502_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T143632_20230129T143800_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T151131_20230129T151256_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T152432_20230129T152713_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T160144_20230129T160203_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T160704_20230129T161418_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T161649_20230129T162131_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T162850_20230129T163331_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T163652_20230129T163807_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T165108_20230129T165114_E001	Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T170221_20230129T170838_E001	Backscatter Error (Retracker 3)  Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T172148_20230129T172401_E001	Backscatter Error (Retracker 3)  Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 for one or more records
55_511	Backscatter Error (Retracker 3)	

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CS_OFFL_SIR_SAR_220230129T173613_20230129T173846_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T191737_20230129T191944_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T192457_20230129T193112_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T194629_20230129T194753_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T200923_20230129T200937_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T202153_20230129T202255_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T210321_20230129T211221_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T214853_20230129T214911_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T220046_20230129T220250_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T224014_20230129T224755_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T224831_20230129T224956_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T225101_20230129T225239_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T231942_20230129T232220_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220230129T232827_20230129T232906_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_2_20230129T233944_20230129T234218_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_2_20230129T002002_20230129T002120_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220230129T002652_20230129T003009_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T011806_20230129T011857_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T012112_20230129T012233_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_2_20230129T012711_20230129T012756_E001	SARIn X-track Angle Error, Surface model unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20230129T013717_20230129T013916_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_2_20230129T015924_20230129T020040_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T020549_20230129T020902_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T031506_20230129T031545_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220230129T034022_20230129T034258_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T034453_20230129T035029_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220230129T042953_20230129T043005_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220230129T043544_20230129T044048_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220230129T051913_20230129T052201_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220230129T052405_20230129T052505_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T052906_20230129T053044_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T055747_20230129T060024_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T061452_20230129T061600_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T061701_20230129T061812_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_2 _ 20230129T063713_20230129T064256_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for
C5_OFFL_SIN_2	track Angle Error, Surface model unavailable Backscatter Error (Retracker 2),	the location for one or more records  There is a backscatter error for Retracker 2 and 3, an ambiguous angle
CS_OFFL_SIR_SIN_220230129T065038_20230129T065221_E001	Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T065751_20230129T070004_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T070810_20230129T070958_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T073513_20230129T073520_E001	Calibration Warning	The Calibration correction is missing or has been taken from the IPFDB instead of the Calibration products for one or more records
CS_OFFL_SIR_SIN_2_20230129T073520_20230129T073853_E001	SARIn X-track Angle Error, Surface model unavailable  Backscatter Error (Retracker 2),	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20230129T075408_20230129T080002_E001	Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T083659_20230129T083846_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T084052_20230129T084125_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T084653_20230129T084920_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T091714_20230129T091837_E001	SARIn X-track Angle Error, Surface model unavailable  Backscatter Error (Retracker 2),	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20230129T092736_20230129T092801_E001	Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T092902_20230129T092928_E001	Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T093424_20230129T094611_E001	Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T101629_20230129T101807_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T101910_20230129T102055_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220230129T102544_20230129T102550_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T102655_20230129T102818_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error Backscatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T111624_20230129T112024_E001	Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220230129T115636_20230129T120005_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T120535_20230129T120652_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T123518_20230129T123636_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220230129T124322_20230129T124426_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T125516_20230129T125719_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T125833_20230129T125914_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_2_20230129T133547_20230129T133908_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T134422_20230129T134546_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T142607_20230129T142758_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T151256_20230129T151447_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T152322_20230129T152432_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T160203_20230129T160256_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_2_20230129T160557_20230129T160704_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T165114_20230129T165251_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T170024_20230129T170220_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T190741_20230129T190904_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_2_20230129T191614_20230129T191736_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_2_20230129T191944_20230129T192457_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T194046_20230129T194436_E001	SARIn X-track Angle Error, Surface model unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20230129T200937_20230129T201238_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T201910_20230129T202153_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T205947_20230129T210320_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T211924_20230129T212116_E001	SARIn X-track Angle Error, Surface model unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20230129T214911_20230129T215028_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T215925_20230129T220045_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T223525_20230129T223806_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T223806_20230129T224014_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T224755_20230129T224830_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T224956_20230129T225101_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_2_20230129T232906_20230129T233030_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20230129T233833_20230129T233944_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records