

## 22/02/2020



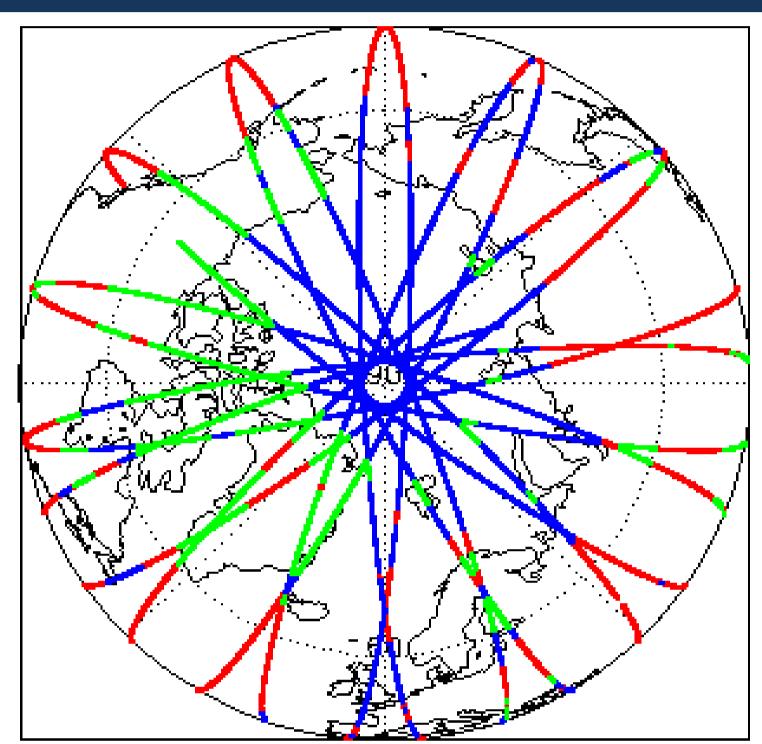
## 1. Overview

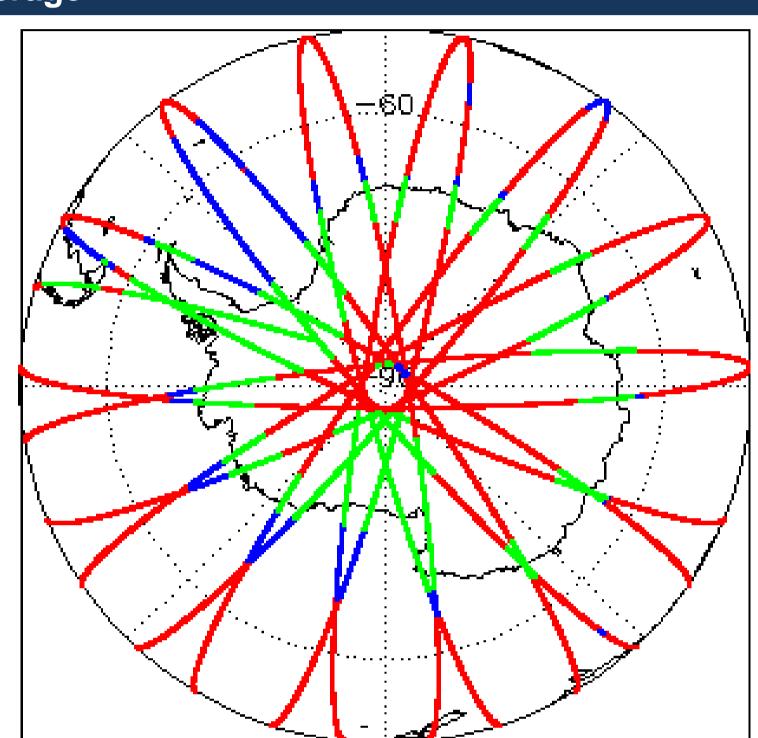
Report Production Date:	e: 25-Mar-2020	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

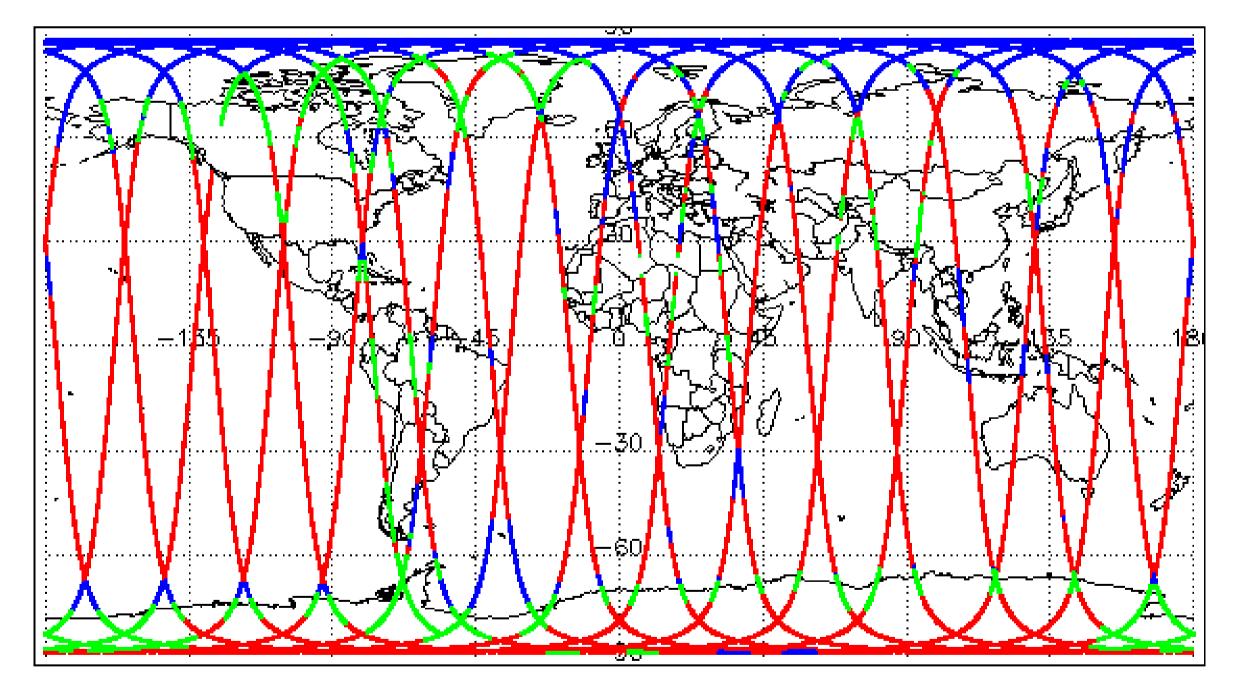
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

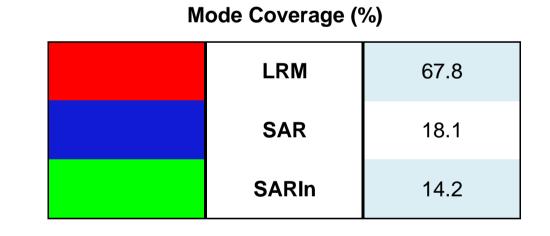
Mission / Instrument News		
21-Feb-2020	SIRAL unavailability on 21-Feb-2020 from 08:17:00 to 08:41:01 due to an unplanned platform anomaly.	
22-Feb-2020	None	
23-Feb-2020	Nothing planned	

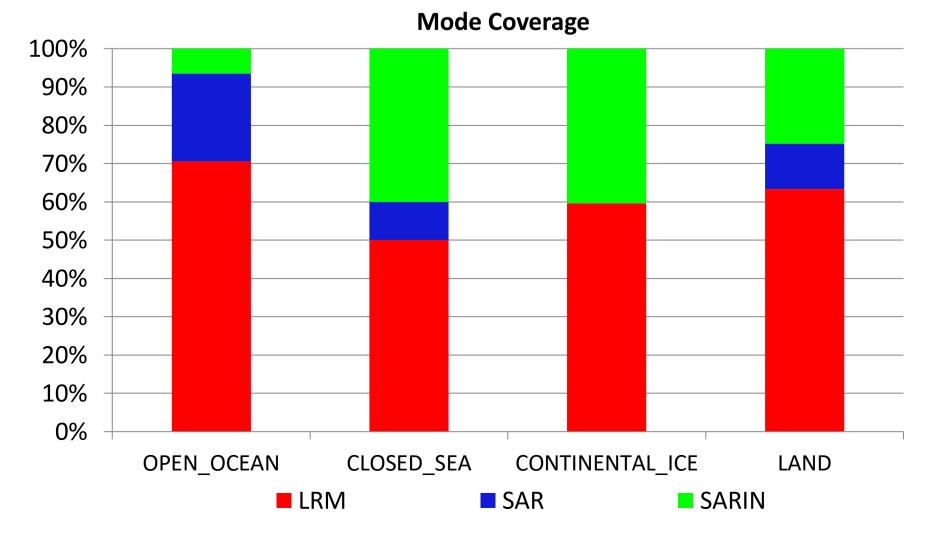
# 2. Global Coverage

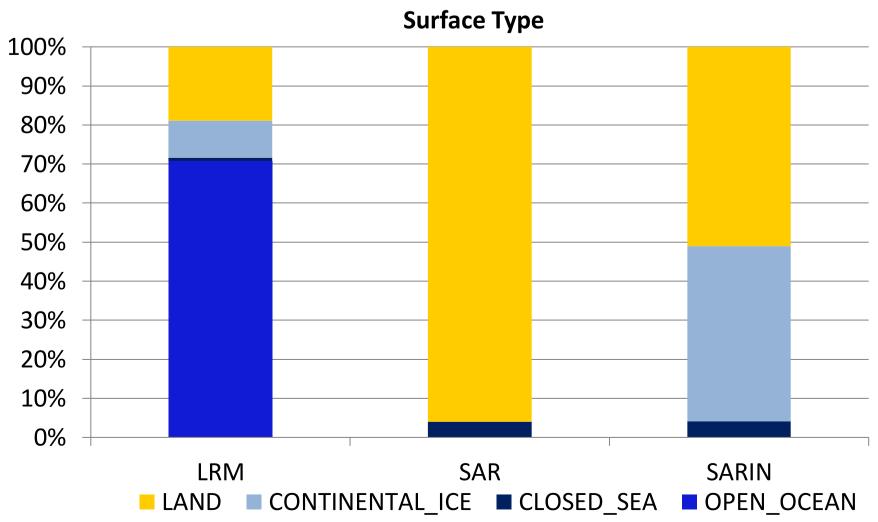












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

## 4. Level 1B Data Quality Check

#### **4.1 L1B Product Format Check**

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

Number of products with errors:

#### **4.2 L1B Product Header Analysis**

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

Number of products with errors:

#### 4.3 Star Tracker Usage Check

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

Number of products with errors: 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:

100

CS. CPTL. SRL LEM. 16. 2020/02/27/03/29, 2020/02/27/03/54, DOV.  CS. CPTL. SRL LEM. 16. 2020/02/27/03/29, 2020/02/27/03/54, DOV.  CS. CPTL. SRL LEM. 16. 2020/02/27/03/59, 2020/02/27/03/54, DOV.  CS. CPTL. SRL LEM. 16. 2020/02/27/03/59, 2020/02/27/03/54, DOV.  CS. CPTL. SRL LEM. 16. 2020/02/27/03/59, 2020/02/27/03/54, DOV.  CS. CPTL. SRL LEM. 16. 2020/02/27/03/54, 2020/02/27/03/54, DOV.  CS. CPTL. SRL LEM. 16. 2020/02/27/03/54, 2020/02/27/03/54, DOV.  Loss of echo  CS. CPTL. SRL LEM. 16. 2020/02/27/03/54, 2020/02/27/03/54, DOV.  CS. CPTL. SRL LEM	Product	Test Failed	Description
Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 2000022700056 2020022705557 D001 Loss of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 20000227050564 2020022705577 D001 Loss of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 200002270570572 2020022705777 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 200002227057572 2020022705777 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 20000222705775 20200227057579 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 20000222700576 2020022705570 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 20000222700579 2020022705567 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 2000022700590 2020022705567 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 2000022700590 2020022705585 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 200002270090 2020022705859 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 200002270090 202002270585 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 200002271090 202002270551 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 200002271090 20200227051 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 200002271090 20200227051 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 20000227004 20200227001 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 20000227004 2020027001 D001 Los of edito The tracking edit is imissing for one or more records  CS OFFL. SIR LEM 16 20000227004 2020027001 Los of e	CS_OFFL_SIR_LRM_1B_20200222T001111_20200222T001809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_20200227105509_2000022710557_D001  Loss of etho The tracking etho is missing for one or more records  CS_OFFL_SR_LRM_18_20200222105509_2000022710557_D001  Loss of etho The tracking etho is missing for one or more records  CS_OFFL_SR_LRM_18_20200222105567_2000022710577_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105572_D000222710557_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105574_2000022710557_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105574_2000022710557_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105585_20000227105597_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105592_20000227105593_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105593_20000227105593_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105593_20000227105591_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105592_20000227105591_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105592_20000227105591_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105592_20000227105595_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105592_2000022710555_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_202002227105592_2000022710555_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_20200222710555_20000222710555_D001  Loss of etho The tracking educ is missing for one or more records  CS_OFFL_SR_LRM_18_20200222710555_20000222710555_D001  Loss of etho The tracking educ is missing for one or	CS_OFFL_SIR_LRM_1B_20200222T002233_20200222T002722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_19_200022700569 200022270557 D001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700569 2000222705743 D001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700579 _2000222705874 D001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700579 _2000222705874 D001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700579 _2000222705879 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700579 _2000222705897 D001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700593 _2000222705893 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700593 _2000222705893 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700593 _2000222705893 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700593 _20002227105959 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022700593 _20002227105959 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022710593 _20002227105959 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022710593 _20002227105959 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022710593 _20002227105959 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022710593 _20002227105950 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022710593 _20002227105950 _0001  Loss of echo The tracking echo is messing for one or more records  CS_OFFL_SIR_LRM_19_200022710593 _20002227105950 _0001  Loss of echo The tracking echo is messing for one or mor	CS_OFFL_SIR_LRM_1B_20200222T003006_20200222T003554_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_20200227105551_20002227105757_D001 Loss of echo The tracking coho is missing for one or more records CS_OFFL_SR_LRM_18_20200227105732_20002227105757_D001 Loss of echo The tracking coho is missing for one or more records CS_OFFL_SR_LRM_18_202002227105734_20002227105750_D001 Loss of echo The tracking coho is missing for one or more records CS_OFFL_SR_LRM_18_202002227105734_20002227105750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_202002227105742_20002227105979_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105972_20002227105983_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105982_2000222710598_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105983_2000222710598_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105983_2000222710598_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105983_2000222710598_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105983_2000222710598_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_2020022710493_2000222710598_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_2020022710493_200022271051155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_2020022710493_200022271051155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_2020022710493_200022271051155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105135_20002227105115_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20200227105135_20002227105115_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_202002271	CS_OFFL_SIR_LRM_1B_20200222T005059_20200222T005507_D001	Loss of echo	The tracking echo is missing for one or more records
Uses of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200227003740_20000227005847_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200227003740_20000227005847_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227003740_20000227005847_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227003897_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227003897_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227003897_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227003897_20000227005830_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227003897_20000227005830_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227010492_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227010492_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227010492_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_202002227010492_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200222701393_DOOL0227021337_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200222701393_DOOL022702337_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200222703393_DOOL0227023390_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200222703490_DOOL0227023390_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200222703490_DOOL022703390_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_IB_20200222703490_DOOL022703390_DOOL Loss of echo The tra	CS_OFFL_SIR_LRM_1B_20200222T005509_20200222T005537_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_20000227100573_2000022700576_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200002271005574_200002227005697_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200002271005574_200002227005697_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200002271005692_20000227005697_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200002271005692_20000227005693_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20000227100592_2000022700593_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20000227100592_2000022710039_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200002271014032_2000222710158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200002271014032_20000222710116_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_2000022271014032_20000222710116_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20000222710120120_20000222710116_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_2000022271021020_20000222710116_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_2000022271021020_2000222710116_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200002227102100022270020022700000000000	CS_OFFL_SIR_LRM_1B_20200222T005541_20200222T005654_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 200002271005748 200002271005897 D0011 Loss of earth CS OFFL SIR LRM 18 200002271005897 D0014 Loss of earth CS OFFL SIR LRM 18 200002271005897 200002271005897 D0014 Loss of earth CS OFFL SIR LRM 18 200002271005897 200002271005893 D0014 Loss of earth CS OFFL SIR LRM 18 200002271005897 200002271005893 D0014 Loss of earth CS OFFL SIR LRM 18 200002271005897 200002271005893 D0014 Loss of earth CS OFFL SIR LRM 18 200002271005897 200002271005893 D0014 Loss of earth CS OFFL SIR LRM 18 200002271005897 200002271005893 D0014 Loss of earth CS OFFL SIR LRM 18 200002271005897 20000227100589 D0014 Loss of earth CS OFFL SIR LRM 18 20000227100589 20000227100589 D0014 Loss of earth CS OFFL SIR LRM 18 20000227100589 20000227100589 D0014 Loss of earth CS OFFL SIR LRM 18 2000022710492 200002271071070 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101492 200002271071070 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101492 2000022710716 D0014 Loss of earth CS OFFL SIR LRM 18 20000227101392 2000022710716 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101392 20000227107170 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101392 20000227107115 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101392 20000227101393 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101393 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101393 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101393 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101393 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101393 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101390 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101390 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101390 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101390 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101390 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227101390 D0015 Loss of earth CS OFFL SIR LRM 18 20000227101393 20000227103	CS_OFFL_SIR_LRM_1B_20200222T005657_20200222T005727_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 2020022T005882 2020022T019897 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T005882 2020022T019897 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T005882 2020022T019893 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T005882 2020022T0198951 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T005882 2020022T019032 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T005882 2020022T019032 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T019127 2020022T0191050 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T019127 20200022T1019155 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T019127 2020022T1019155 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T019127 2020022T1019135 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T021927 2020022T019135 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T021939 20200022T0191716 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T021939 2020022T0219716 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T021939 2020022T021909 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T021949 2020022T01909 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T01949 2020022T01989 DOO!  Loss of each The tracking each is missing for one or more records  CS OFFL SIR LRM 18 2020022T01949 2020022T01989 DOO!  Loss of each The tracking each is m	CS_OFFL_SIR_LRM_1B_20200222T005730_20200222T005743_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 2020022T006952 2020022T01999 D011   Loss of each	CS_OFFL_SIR_LRM_1B_20200222T005748_20200222T005750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200227005912_0200227006939 D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227006939_20200227006930 D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227006939_20200227006930 D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227010439_20200227010030_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227014229_202002270110000  CS_OFFL_SIR_LRM_18_20200227014229_202002270110000  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227014229_202002270110000  CS_OFFL_SIR_LRM_18_2020022701329_2020022701116_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020022701339_2020022701339_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020022701339_2020022701379_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020022701339_2020227013716_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227101339_20200227101716_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227103404_2020227103409_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227103404_2020227103404_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200227103404_2020227103404_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020022710440_2020227103404_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202002271041632_20200227103404_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020002271041632_202002271043839_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF	CS_OFFL_SIR_LRM_1B_20200222T005754_20200222T005847_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 20200222T006939 20200222T016938 D001	CS_OFFL_SIR_LRM_1B_20200222T005852_20200222T005907_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_202002227010432_202002227010551_D001	CS_OFFL_SIR_LRM_1B_20200222T005910_20200222T005919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T01032_2020022T01032_D001	CS_OFFL_SIR_LRM_1B_20200222T005927_20200222T005933_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL.SIR.LRM.18 20200222T01432 20200222T01518 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T021432 20200222T021352 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T021332 20200222T021352 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T021333 20200222T021335 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T02333 20200222T021716 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T02339 2020022T02330 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T023452 20200222T02309 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T0240452 20200222T03908 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T034042 20200222T030946 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T04312 20200222T030946 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T041549 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T041542 20200222T041549 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T041542 20200222T04589 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T045014 20200222T04589 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T045014 20200222T05558 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T040542 20200222T05559 D001 Lass of echo The tracking echo is missing for one or more records  CS. OFFL.SIR.LRM.18 20200222T050142 20200222T069132 20200222T069132 2020022T069132 2020022	CS_OFFL_SIR_LRM_1B_20200222T005939_20200222T005951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T014225_20200222T021115_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022T021324_202000222T021335_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022T021338_20200022ZT021335_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022T021339_20200022ZT021337_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT023339_2020022ZT023300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT023412_2020022ZT023308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT023412_2020022ZT023908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT024312_2020022ZT023908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022T04312_2020022ZT03908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022T04312_2020022ZT031908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022T04122_2020022ZT031908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022T041622_2020022ZT041826_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT041624_2020022ZT043823_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT046424_2020022ZT045800_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT056414_20200022ZT056569_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200022ZT056414_20200022ZT055780_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020022ZT064024_D0002ZT0575780_D001 Loss of echo The tracking echo	CS_OFFL_SIR_LRM_1B_20200222T005955_20200222T010032_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T02132_2020222T02135_D001	CS_OFFL_SIR_LRM_1B_20200222T010432_20200222T010518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20200222T021324_20200222T021325_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200222T023211_20200222T023302_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200222T023211_20200222T023302_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200222T024452_0200222T024308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202000222T024452_0200222T024049_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202000222T024412_02000222T034049_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202000222T041228_02000222T031539_C0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T041228_02000222T031539_C0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T041228_0200022T041828_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T041828_0200022T041828_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T041828_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T045014_0200022T045890_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T055424_0200022T05558_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T065042_020022T05558_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T060148_0200022T065057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T060148_0200022T065057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200022T060148_0200022T06108_001 Loss of echo The tracking echo is missing for one or more record	CS_OFFL_SIR_LRM_1B_20200222T014225_20200222T021020_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200222T021338_20200222T023302_D001	CS_OFFL_SIR_LRM_1B_20200222T021023_20200222T021115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T021339_2020022T02302_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T024042_2020022T030946_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T024040_2020022T030946_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T031539_2020022T030946_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T031539_2020022T031905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T031539_2020022T031590_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T041549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T041549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T041549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T041549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T041549_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022T0565742_2020022T045809_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T0565710_2020022T0565728_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T0565710_2020022T060527_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060016_2020022T060527_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060012_T06001_Loss of echo  The tracking echo is missing for one or more recor	CS_OFFL_SIR_LRM_1B_20200222T021324_20200222T021325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T023425_2020022ZT023908_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T024040_2020022ZT024049_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022ZT024040_202002ZT03908_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022ZT031639_202002ZZT031905_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020022ZT031639_202002ZZT041549_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT041526_202002ZZT041549_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT041526_2020002ZZT041549_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT041622_2020002ZZT04186_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT041832_2020002ZZT041832_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT05424_202002ZZT045699_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT055424_202002ZZT055699_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT055710_202002ZZT055814_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT050106_20200ZZT056021_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT060045_20200ZZT06008_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT060045_20202ZT061032_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT060045_20202ZT061032_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202002ZZT061046_20202ZZT061032_D001 Loss of echo The tracking echo	CS_OFFL_SIR_LRM_1B_20200222T021328_20200222T021337_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200222T024040_20200222T024049_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T024040_20200222T034049_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T031539_20200222T031905_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T041226_20200222T041549_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T041622_20200222T041549_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T041622_20200222T041826_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T041832_20200222T041832_3 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045809_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T055424_20200222T055599_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T055710_20200222T055788_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T055730_20200222T055814_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T060106_20200222T060201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T060106_2020222T061008_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T061046_20200222T061321_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T061046_2020222T061331_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T061345_2020222T061331_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200222T061345_2020222T061331_D001 Loss of echo The tracking echo is missin	CS_OFFL_SIR_LRM_1B_20200222T021339_20200222T021716_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T024040_2020222T030846_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T031539_20200222T031905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041226_20200222T041549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041622_20200222T041826_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041832_20200222T041826_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041832_20200222T043823_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045809_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045809_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055424_20200222T055659_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055710_20200222T055728_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060166_20200222T060201_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060345_20200222T060527_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T061046_20200222T0610312_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T071638_20200222T071735_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T071638_20200222T077335_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T071638_20200222T077335_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more r	CS_OFFL_SIR_LRM_1B_20200222T023211_20200222T023302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T034312_20200222T030846_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041226_20200222T041549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041622_20200222T041649_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041622_20200222T041826_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041832_20200222T043823_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045809_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055424_20200222T055659_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055710_20200222T055728_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055730_20200222T055814_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060106_2020022T060527_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060142_20200222T060527_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T061046_20200222T06132_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T071638_20200222T071735_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T073867_2020222T073835_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T073852_2020222T073835_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking	CS_OFFL_SIR_LRM_1B_20200222T023425_20200222T023908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T031539_20200222T041549_D001	CS_OFFL_SIR_LRM_1B_20200222T024040_20200222T024049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T041226_20200222T041626_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T041832_20200222T043823_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045809_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045809_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055424_20200222T055659_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055710_20200222T055728_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055730_20200222T055814_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060106_20200222T060201_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060345_20200222T060201_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T0601046_20200222T06108_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T061046_20200222T061321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T071638_20200222T071735_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T073647_20200222T073835_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200222T024312_20200222T030846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T041822_20200222T043823_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045809_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T045014_20200222T045609_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055424_20200222T055659_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055710_20200222T055728_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T055730_20200222T0557814_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060106_20200222T060201_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060345_20200222T060527_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T060712_20200222T06108_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T061046_20200222T061321_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T071638_20200222T071735_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T073647_20200222T073835_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T073647_20200222T073835_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T073647_20200222T073835_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200222T031539_20200222T031905_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200222T073647_20200222T073835_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200222T073852_20200222T074402_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200222T061046_20200222T061321_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20200222T073647_20200222T073835_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T074600_20200222T075206_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200222T073852_20200222T074402_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20200222T074600_20200222T075206_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200222T085516_20200222T085606_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T085609_20200222T085731_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T090941_20200222T094135_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T095112_20200222T095307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T100400_20200222T101532_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T101639_20200222T101709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T101713_20200222T102819_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T103055_20200222T103334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T103340_20200222T103716_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T105428_20200222T110614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T110905_20200222T111759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T112945_20200222T113226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T120247_20200222T121049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T121054_20200222T121103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T121106_20200222T121106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T121110_20200222T121710_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T123229_20200222T123820_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T124103_20200222T130516_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T130738_20200222T131619_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T131826_20200222T134336_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T134608_20200222T134654_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T134814_20200222T135228_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T135352_20200222T135437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T140937_20200222T141500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T141539_20200222T144415_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T145704_20200222T152511_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T152514_20200222T152601_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T152603_20200222T152732_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T152745_20200222T153258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T164611_20200222T165318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T165513_20200222T170009_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T170431_20200222T170527_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T170701_20200222T171020_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T172744_20200222T180242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T181910_20200222T183429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T183601_20200222T183905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T184049_20200222T184340_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T184539_20200222T184651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T191905_20200222T194121_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T204348_20200222T204359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T204402_20200222T204410_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T204414_20200222T204457_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T205213_20200222T212019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T212728_20200222T212949_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T213814_20200222T215041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222228_20200222T222252_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222256_20200222T222323_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222331_20200222T222357_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222400_20200222T222403_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222409_20200222T222517_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222523_20200222T222540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222543_20200222T222555_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222746_20200222T222813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T222816_20200222T222825_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T223221_20200222T224140_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T224344_20200222T225922_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T231458_20200222T232552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T232554_20200222T232727_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200222T233208_20200222T234352_D001	Loss of echo	The tracking echo is missing for one or more records

# 4.5 L1B Calibration Usage Check

#### 4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.7 L1B Auxiliary Correction Error Check

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

0

Number of products with errors:

#### 4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200222T001111_20200222T001809_D001	TECHO ELLOT TRK ECHO ELLOT	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200222T110905_20200222T111759_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

## 5. Level 2 Data Quality Check

#### **5.1 L2 Product Format Check**

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

Number of products with errors: 0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### **5.3 L2 Auxiliary Data File Usage Check**

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

Number of products with errors:

## **5.4 L2 Auxiliary Correction Error Check**

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

Number of products with errors:

### 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors: 49

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200222T001111_20200222T001809_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T002233_20200222T002722_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T003006_20200222T003554_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T005754_20200222T005847_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200222T010628_20200222T012919_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T014225_20200222T021020_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T024312_20200222T030846_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T032147_20200222T035528_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220200222T041832_20200222T043823_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T050112_20200222T053513_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T061612_20200222T062817_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T064020_20200222T070310_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T070556_20200222T071529_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T071638_20200222T071735_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200222T074600_20200222T075206_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T075354_20200222T080721_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T082007_20200222T085110_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T090941_20200222T094135_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T100400_20200222T101532_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T101639_20200222T101709_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T101713_20200222T102819_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T105428_20200222T110614_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T113903_20200222T115357_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T115537_20200222T115820_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T120247_20200222T121049_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200222T123229_20200222T123820_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T124103_20200222T130516_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T131826_20200222T134336_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T135352_20200222T135437_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T141539_20200222T144415_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T145704_20200222T152511_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T152603_20200222T152732_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200222T155100_20200222T162320_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T164611_20200222T165318_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T172744_20200222T180242_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T181502_20200222T181810_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T181910_20200222T183429_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T190717_20200222T191620_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200222T191905_20200222T194121_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T195436_20200222T201639_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T202326_20200222T203038_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T205213_20200222T212019_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

CS_OFFL_SIR_LRM_220200222T213814_20200222T215041_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T215142_20200222T220839_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200222T223221_20200222T224140_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T224344_20200222T225922_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T231458_20200222T232552_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T233208_20200222T234352_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200222T234627_20200222T234752_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records