

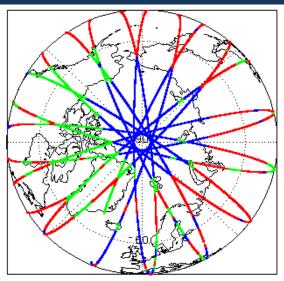
1. Overview

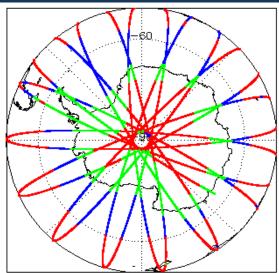
Report Production Date:	29-Oct-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

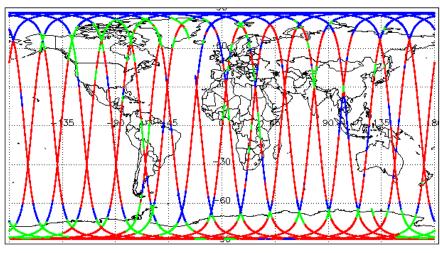
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

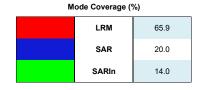
Mission / Instrument News			
30-Sep-2020	None		
01-Oct-2020	None		
02-Oct-2020	Nothing planned		

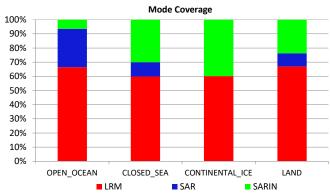
2. Global Coverage

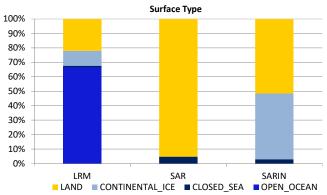












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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:

0

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:

Λ

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.

umber of products with errors:

Co. OFT. SRIL PM. 18. 2021/001700233 2021/0017100218 202	Product	Test Failed	Description
CS. OFFL SRL LRM. 18, 20211011102215, 202010111032219, 202110111032212, 202010111032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201011032212, 20201	CS_OFFL_SIR_LRM_1B_20201001T000033_20201001T001719_D001	Loss of echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_LEM_18_200010011002211_20021011002212_D001 CS_OFFL_SIR_LEM_18_200010011002212_0001011002212_D001 CS_OFFL_SIR_LEM_18_200010011002215_20001011002015_D001 CS_OFFL_SIR_LEM_18_200010011002251_2000101002015_D001 CS_OFFL_SIR_LEM_18_200010011002051_20001011002015_D001 CS_OFFL_SIR_LEM_18_200010011002451_20001011002015_D001 CS_OFFL_SIR_LEM_18_20001001101245_2000101011005_D001 CS_OFFL_SIR_LEM_18_20001001101245_20001010110125_D001 CS_OFFL_SIR_LEM_18_20001001101245_20001010110125_D001 CS_OFFL_SIR_LEM_18_20001001101245_20001010110125_D001 CS_OFFL_SIR_LEM_18_20001001101245_20001010110125_D001 CS_OFFL_SIR_LEM_18_20001001101245_20001010110125_D001 CS_OFFL_SIR_LEM_18_20001001101245_20001010110125_D001 CS_OFFL_SIR_LEM_18_20001001101245_20001 CS_OFFL_SIR_LEM_18_20001010110145_20001 CS_OFFL_SIR_LEM_18_20001010110145_20001 CS_OFFL_SIR_LEM_18_200010101101445_20001 CS_OFFL_SIR_LEM_18_200010101101445_20001 CS_OFFL_SIR_LEM_18_200010101101445_20001 CS_OFFL_SIR_LEM_18_200010101101445_20001 CS_OFFL_SIR_LEM_18_2000101101101402_20001 CS_OFFL_SIR_LEM_18_2000101101101402_20001 CS_OFFL_SIR_LEM_18_200010110110110110125_D001 CS_OFFL_SIR_LEM_18_2000101101101101101101101101101101101101	CS_OFFL_SIR_LRM_1B_20201001T002101_20201001T002131_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LINA_18_20201001T002216_20201001T002216_20001 CS_OFFL_SIR_LINA_18_20201001T002216_20201001T00231_20001 CS_OFFL_SIR_LINA_18_20201001T002315_2020101T000231_20001 CS_OFFL_SIR_LINA_18_20201001T0013154_20201001T001233_20001 CS_OFFL_SIR_LINA_18_20201001T0013154_20201001T001233_20001 CS_OFFL_SIR_LINA_18_20201001T0013154_20201001T001233_20001 CS_OFFL_SIR_LINA_18_20201001T0013154_20201001T001235_20001 CS_OFFL_SIR_LINA_18_20201001T0013154_20201001T001235_20001 CS_OFFL_SIR_LINA_18_20201001T0013154_20201001T001235_20001 CS_OFFL_SIR_LINA_18_20201001T0013155_20201001T01235_20001 CS_OFFL_SIR_LINA_18_20201001T001315_20201001T01235_20001 CS_OFFL_SIR_LINA_18_20201001T001315_20201001T01425_20001 CS_OFFL_SIR_LINA_18_20201001T001315_20201001T01425_20001 CS_OFFL_SIR_LINA_18_20201001T001315_20201001T01425_20001 CS_OFFL_SIR_LINA_18_20201001T001316_20001 CS_OFFL_SIR_LINA_18_20201001T001316_2000101T02551_20001 CS_OFFL_SIR_LINA_18_20201001T001316_20001 CS_OFFL_SIR_LINA_18_20201001T0013014_2000101T02551_20001 CS_OFFL_SIR_LINA_18_20201001T0013014_2000101T02551_20001 CS_OFFL_SIR_LINA_18_20201001T0013014_2000101T02551_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T02551_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T02551_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T003509_0001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T003214_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T003244_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T003244_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T00344_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T00344_20001 CS_OFFL_SIR_LINA_18_20201001T003014_2000101T00344_20001 CS_OFFL_SIR_LINA_18_20201001T003018_2000101T003401_20001 CS_OFFL_SIR_LINA_18_20201001T003018_2000101T003014_20001 CS_OFFL_SIR_LINA_18_20201001T003018_2000101T00301_20001 CS_OFFL_SIR_LINA_18_20201001T003018_2000101T00301_20001 CS_OFFL_SIR_LINA_18_20201001T003018_2000101T00301_20001 CS_OFFL_SIR_LINA_18_20201001T003018_2000101T00301_20001 CS_OFFL_SIR_LINA_18_20201001T003018_2000101	CS_OFFL_SIR_LRM_1B_20201001T002159_20201001T002209_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_2001001T002219_2001001T002315_0001 CS_OFFL_SIR_LRM_18_20010101T002315_2001001T002315_0001 CS_OFFL_SIR_LRM_18_20010101T01235_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T01235_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T01235_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T01235_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T01235_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T01235_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T0135_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T0135_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T0135_2001001T01235_0001 CS_OFFL_SIR_LRM_18_20010101T0135_2001001T0123_00001 CS_OFFL_SIR_LRM_18_20010101T0135_2001001T0123_00001 CS_OFFL_SIR_LRM_18_20010101T0135_2001001T0123_000001 CS_OFFL_SIR_LRM_18_20010101T0135_0000001T0123_0000001T0123_0000001T0123_00000000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20201001T002211_20201001T002212_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201001T002351_20201001T00401_20201001T00330_D001 Loss of echo	CS_OFFL_SIR_LRM_1B_20201001T002216_20201001T002216_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LRM_IB_20201001T01352_20201001T01359_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T01352_20201001T012757_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T01367_20201001T012757_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T01367_20201001T012757_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T01367_20201001T012757_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02164_20201001T02177_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02164_20201001T02277_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02164_20201001T02277_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02164_20201001T022513_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02306_20201001T025513_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02306_20201001T025957_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02306_20201001T030338_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02306_20201001T02324_2D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LRM_IB_20201001T02306_20201001T023272_20201001T023	CS_OFFL_SIR_LRM_1B_20201001T002219_20201001T002347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201001T011324_20201001T01233_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T01257_20201001T01233_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T013585_20201001T014253_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T013585_20201001T014253_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T012510_20201001T02455_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T025104_20201001T025513_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T02504_20201001T025513_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T02504_20201001T025513_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032504_20201001T03350_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T03185_20201001T031921_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032042_20201001T032442_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032442_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032442_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T034030_20201001T033442_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T040312_0201001T03445_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T040312_0201001T034500_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T040313_02021001T043500_0001 Loss of exho The tracking exho is	CS_OFFL_SIR_LRM_1B_20201001T002351_20201001T003015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_2021001T011622_20221001T012757_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021001T012157_20221001T012757_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021001T015215_20221001T012458_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20221001T012516_202201001T02456_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20221001T021840_20201001T022717_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20221001T023042_20201001T022717_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20221001T020007_20201001T023515_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20221001T020007_20201001T020303_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030007_20201001T030338_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030007_20201001T030338_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030507_20201001T030338_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032643_20201001T032717_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032643_20201001T032717_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043613_20201001T043615_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043613_20201001T043680_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043613_20201001T043680_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043613_20201001T04480_0001 Loss of echo The tracking	CS_OFFL_SIR_LRM_1B_20201001T004041_20201001T004333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T012157_20201001T012757_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T013951_20201001T014213_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T012146_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T02146_D0010T02717_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T023140_20201001T025513_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T023140_20201001T025597_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T0231007_20201001T025597_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033104_20201001T03336_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033043_20201001T033242_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033043_20201001T033445_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033043_20201001T033445_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_20201001T044305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_20201001T044305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_20201001T044305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_20201001T044305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_20201001T04430_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_20201001T04400_D001 Loss of echo	CS_OFFL_SIR_LRM_1B_20201001T011354_20201001T011509_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201001T013961_20201001T014213_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T014338_20201001T014952_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T023104_20201001T0251458_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T023104_20201001T025513_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T023904_20201001T025951_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T023904_20201001T025951_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T039007_20201001T039380_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T039342_20201001T039342_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T03271_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T03271_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032715_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04302_20201001T04308_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043010_20201001T04308_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043010_20201001T043030_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043010_20201001T043030_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043010_20201001T04400_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T063042_20201001T060303_D0011 Loss of echo The tracking	CS_OFFL_SIR_LRM_1B_20201001T011622_20201001T012139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201001T014336_20201001T02495_D001 CS_OFFL_SIR_LRM_18_20201001T015480_20201001T022171_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T023104_20201001T022513_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T025904_20201001T025957_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030004_20201001T0305957_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030007_20201001T030386_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030303_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030303_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T030403_2001001T032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T03243_2001001T032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T03243_2001001T032451_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T034303_2001001T034305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043801_20201001T043801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043801_20201001T043801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043801_2001001T043801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043801_2001001T043801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043801_2001001T044801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04	CS_OFFL_SIR_LRM_1B_20201001T012157_20201001T012757_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201001T015210_20201001T023145_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T023104_20201001T02595_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 CS_OFFL_SIR_LRM_18_20201001T033032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032415_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032415_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04303_20201001T043059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04303_20201001T043059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04301_20201001T044300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04301_20201001T044300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04301_20201001T044300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04301_20201001T044300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T060818_2001001T061000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T060818_20201001T061000	CS_OFFL_SIR_LRM_1B_20201001T013951_20201001T014213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T023842_2020100T022717_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T023004_2020100T1025513_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T030007_2020100T1030335_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033035_2020100T1039335_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T03303242_2020100T1032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T03242_2020100T1032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T03243_2020100T1032412_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T03272_2020100T103245_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_2020100T1043559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044302_2020100T1043600_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_2020100T1043600_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_2020100T1044360_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020100T1043610_2020100T1044360_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020100T1043610_2020100T1044360_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020100T1044302_D0010T044300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020100T106638_D0010T06438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020100T106638_2020100T1066248_D001 Loss of echo The tracking echo is missing for one	CS_OFFL_SIR_LRM_1B_20201001T014336_20201001T014925_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T023104_20201001T025513_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033032_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033033_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T033033_20201001T0332442_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032442_20201001T032442_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032442_20201001T032415_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032432_20201001T032415_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043612_20201001T043559_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043602_2020101T043559_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_20201001T043510_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_20201001T043610_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_20201001T043600_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044100_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T056082_20201001T060682_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060688_20201001T060680_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060688_20201001T060690_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060688_20201001T061920_0001 Loss of echo The tracking echo is missing for one or more records CS	CS_OFFL_SIR_LRM_1B_20201001T015210_20201001T021456_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201001T025904_20201001T033336_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T033007_20201001T033336_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T032043_20201001T033241_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T032043_20201001T03274_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T03274_20201001T03274_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T03274_20201001T033515_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T04301_20201001T043559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T04301_20201001T043508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T04301_20201001T04308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T04301_20201001T04308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T04301_20201001T04430_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T04430_20201001T04430_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T04430_20201001T04430_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T0600812_20201001T060088_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T0600812_20201001T060088_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T0600812_20201001T060082_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201001T060083_20201001T060140_D001 Loss of echo The tracking echo is missing for one o	CS_OFFL_SIR_LRM_1B_20201001T021846_20201001T022717_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T030007_20201001T030386_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032432_20201001T032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032442_20201001T032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032742_20201001T032415_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032742_20201001T032175_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T041031_20201001T043559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043601_20201001T043559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043601_20201001T043601_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_20201001T043611_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043613_20201001T044300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043613_20201001T044300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T055846_20201001T044806_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T0660812_20201001T060480_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T0606812_20201001T060682_20201001T0606812_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T0606812_20201001T060682_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060682_20201001T066180_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020100	CS_OFFL_SIR_LRM_1B_20201001T023104_20201001T025513_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201001T031835_20201001T031921_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032043_20201001T032442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T032742_20201001T0324515_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043272_20201001T043558_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04303_20201001T043559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T04303_20201001T043608_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043610_20201001T043608_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043610_20201001T043611_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043613_20201001T043610_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T043618_20201001T044130_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T044130_20201001T044130_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T060622_20201001T060628_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T060622_20201001T061402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T060622_20201001T061402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T061563_20201001T061402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T061563_20201001T0616402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201001T064302_00201001T064480_D001 Loss of echo The track	CS_OFFL_SIR_LRM_1B_20201001T025904_20201001T025957_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T032443_20201001T032717_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T032724_20201001T032717_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043724_20201001T043559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043602_20201001T043658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043602_20201001T043681_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043611_20001001T043611_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043913_20201001T043830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043913_20201001T044130_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044130_20201001T044130_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044130_20201001T060248_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060822_20201001T060638_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060822_20201001T060638_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060818_20201001T061402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061582_20201001T061920_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061762_20201001T061920_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061820_20201001T061920_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T07632_20201001T075632_D001 Loss of echo The tracki	CS_OFFL_SIR_LRM_1B_20201001T030007_20201001T030336_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T032643_20201001T032717_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T041031_20201001T043559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043602_20201001T043608_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_20201001T043611_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043613_20201001T043830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043613_20201001T04430_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044313_20201001T044430_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044130_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044130_20201001T066024B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T066024B_20201001T066038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T066082_20201001T066038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T066083_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T0616402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061692_20201001T061709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061692_20201001T061709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T06122_20201001T062416_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075419_D001 Loss of echo The tracking echo is missing for one or more records C	CS_OFFL_SIR_LRM_1B_20201001T031835_20201001T031921_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201001T041031_20201001T04368D_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043610_20201001T043611_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043613_20201001T043830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T043613_20201001T044130_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T0443918_20201001T044130_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T044130_20201001T044806_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T055846_20201001T060248_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060622_20201001T060638_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T060818_20201001T061402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061658_20201001T061709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061751_20201001T061920_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T061920_20201001T062112_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T076430_20201001T075449_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075623_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075623_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 trac	CS_OFFL_SIR_LRM_1B_20201001T032643_20201001T032717_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201001T061920_20201001T062112_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T062356_20201001T062416_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T074830_20201001T075449_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075623_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075635_20201001T075816_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_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_20201001T084633_20201001T085108_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_20201001T061658_20201001T061709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T062356_20201001T062416_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T074830_20201001T075449_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075623_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075635_20201001T075816_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T084633_20201001T085108_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_20201001T061751_20201001T061920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T074830_20201001T075449_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075623_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075635_20201001T075816_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T084633_20201001T085108_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_20201001T061920_20201001T062112_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075623_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T075635_20201001T075816_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T084633_20201001T085108_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_20201001T062356_20201001T062416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T075635_20201001T075816_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T084633_20201001T085108_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201001T074830_20201001T075449_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201001T084633_20201001T085108_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201001T075612_20201001T075623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T084633_20201001T085108_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201001T075635_20201001T075816_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201001T081606_20201001T084622_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T085925_20201001T090339_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201001T084633_20201001T085108_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201001T085925_20201001T090339_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201001T095448_20201001T100047_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T101337_20201001T101613_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T101615_20201001T101824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T101901_20201001T102411_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T102433_20201001T103024_D001	Loss of echo	The tracking echo is missing for one or more records
	Loss of echo	•
CS_OFFL_SIR_LRM_1B_20201001T104927_20201001T110029_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T110031_20201001T110152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T113358_20201001T113926_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T114211_20201001T115255_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T115800_20201001T120310_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T123136_20201001T123403_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T123406_20201001T123515_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T123518_20201001T123529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T123533_20201001T123650_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T123653_20201001T123736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T124321_20201001T124334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T124341_20201001T125619_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T125743_20201001T130002_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T131227_20201001T131723_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T131800_20201001T131813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T131817_20201001T131825_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T131827_20201001T132317_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20201001T132320 20201001T132332 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T132335_20201001T132338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T132450_20201001T132601_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T135710_20201001T135827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T140427_20201001T142620_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T142622_20201001T142952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T143221_20201001T143740_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T143904_20201001T143951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T145114_20201001T145849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T150311_20201001T152341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T152348_20201001T152709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T161128_20201001T161141_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T162950_20201001T164033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T164036_20201001T170645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T171508_20201001T171838_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T180804_20201001T181201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T181320_20201001T181531_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T181604_20201001T181659_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T181848_20201001T181932_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T181935_20201001T181943_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T182122_20201001T182933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T183034_20201001T183413_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T183535_20201001T183914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T185008_20201001T185532_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T192624_20201001T193747_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T195508_20201001T195623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T195900_20201001T200428_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202010011199900_202010011200428_D001 CS_OFFL_SIR_LRM_1B_20201001T204132_20201001T211407_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T211411_20201001T211742_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T221145_20201001T221337_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T222140_20201001T223633_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T223636_20201001T223759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T224241_20201001T225035_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T225048_20201001T225653_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T232858_20201001T234325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201001T235038_20201001T235250_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201001T032043_20201001T032442_D001	IECHO ERROR IRK ECHO ERROR	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20201001T132450_20201001T132601_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20201001T223636_20201001T223759_D001		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:

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: 58

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201001T000033_20201001T001719_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_220201001T011622_20201001T012139_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201001T012157_20201001T012757_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201001T013639_20201001T013715_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_220201001T013951_20201001T014213_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_220201001T014336_20201001T014925_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_220201001T015210_20201001T021456_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_220201001T023104_20201001T025513_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_220201001T030458_20201001T030522_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_220201001T030522_20201001T030801_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_220201001T032724_20201001T035415_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_220201001T041031_20201001T043559_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_220201001T044130_20201001T044806_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_220201001T050143_20201001T053152_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_220201001T062503_20201001T062645_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201001T063906_20201001T071149_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_220201001T073014_20201001T074547_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_220201001T081606_20201001T084622_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_220201001T084633_20201001T085108_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_220201001T090850_20201001T093307_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_220201001T095448_20201001T100047_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_220201001T100114_20201001T101203_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_220201001T101337_20201001T101613_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_220201001T101615_20201001T101824_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_220201001T101901_20201001T102411_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_220201001T102433_20201001T103024_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_220201001T104927_20201001T110029_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_220201001T110323_20201001T111301_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_220201001T111350_20201001T112025_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_220201001T113358_20201001T113926_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201001T114211_20201001T115255_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_220201001T115800_20201001T120310_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201001T124341_20201001T125619_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_220201001T125743_20201001T130002_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_220201001T132320_20201001T132332_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220201001T133355_20201001T134804_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_220201001T140427_20201001T142620_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_220201001T142622_20201001T142952_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_220201001T150311_20201001T152341_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_220201001T152348_20201001T152709_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_220201001T154312_20201001T160932_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_220201001T162950_20201001T164033_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_220201001T164036_20201001T170645_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_220201001T172330_20201001T175635_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_220201001T180804_20201001T181201_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_220201001T190249_20201001T192338_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_220201001T192624_20201001T193747_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_220201001T194800_20201001T195130_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_220201001T200741_20201001T202414_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_220201001T204132_20201001T211407_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_220201001T211411_20201001T211742_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_220201001T213658_20201001T220211_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_220201001T222140_20201001T223633_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20201001T223636_20201001T223759_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_220201001T224241_20201001T225035_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_220201001T225048_20201001T225653_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_220201001T231049_20201001T232644_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_220201001T232858_20201001T234325_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

6. QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	158	158	158	0	0
SIR_SAR_1B	104	104	104	0	0
SIR_SIN_1B	103	103	103	0	0
SIR_LRM_2	156	156	148	8	0
SIR_SAR_2	103	104	104	0	0
SIR_SIN_2	104	103	103	0	0
SIR_GDR_2	14	14	0	0	14

Number of products with QCC errors:

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

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

6.2 QCC Warnings

Number of QCC reports with warnings

0

14

Total number of occurrences of each warning

	Total number of occurrences of each warning						
Product Type	AXSMMEOCI	•	-	•	-	-	•
SIR LRM 2	8						

Test Description Key:	est Description Key:						
Abbreviation	Test name	Details					
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice					

6.2 Missing QCC Reports

Number of products with missing QCC reports:

0