

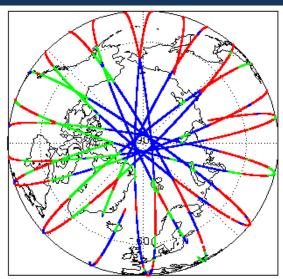
1. Overview

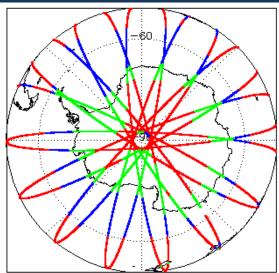
Report Production Date:	26-Nov-2020		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

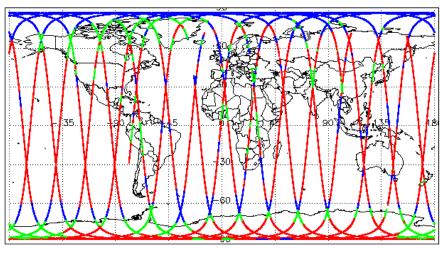
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

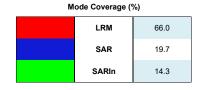
Mission / Instru	ment News
27-Oct-2020	None
28-Oct-2020	None
29-Oct-2020	Nothing planned

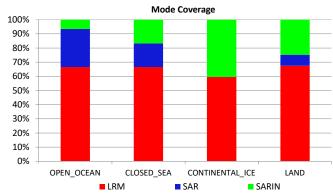
2. Global Coverage

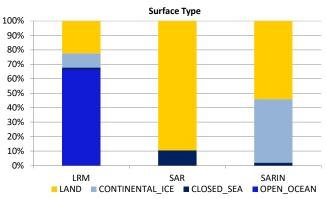












3. Instrument Configuration

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:

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:

0

4.3 Star Tracker Usage Check

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

Number of products with errors:

0

4.4 L1B Tracking Flags Check

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

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

lumber of products with errors: 1

Co. OFT. SML LPM. 18. 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325, 20201027100325,	Product	Test Failed	Description
CS_OFF_SIR_LRM_18_20201028100039_20201028100034_0001 Loss of scho	CS_OFFL_SIR_LRM_1B_20201027T235837_20201027T235946_D001	Loss of echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_LRM_18_202010281002801_20001 CS_OFFL_SIR_LRM_18_202010281002810287_20001028100117_D001 CS_OFFL_SIR_LRM_18_20201028100120_2001028100117_D001 CS_OFFL_SIR_LRM_18_20201028100112_20001028100117_D001 CS_OFFL_SIR_LRM_18_20201028100112_20001028100117_D001 CS_OFFL_SIR_LRM_18_20201028100112_20001028100117_D001 CS_OFFL_SIR_LRM_18_20201028100112_20001028100118_D001 CS_OFFL_SIR_LRM_18_20201028100122_20001028100118_D001 CS_OFFL_SIR_LRM_18_20201028100122_2000102810118_D001 CS_OFFL_SIR_LRM_18_20201028101228_2000102810118_D001 CS_OFFL_SIR_LRM_18_20201028101122_2000102810118_D001 CS_OFFL_SIR_LRM_18_20201028101122_2000102810118_D001 CS_OFFL_SIR_LRM_18_20201028101122_2000102810118_D001 CS_OFFL_SIR_LRM_18_20201028101122_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028101122_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028101434_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028101434_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028101434_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028101434_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028101434_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028101434_2000102810148_D001 CS_OFFL_SIR_LRM_18_20201028102122_2001028102123_D001 CS_OFFL_SIR_LRM_18_202010281021232_2001028102810230_D001 CS_OFFL_SIR_LRM_18_202010281028102326_20001028102328_D001 CS_OFFL_SIR_LRM_18_202010281032359_2001028103238_D001 CS_OFFL_SIR_LRM_18_202010281032359_2001028103238_D001 CS_OFFL_SIR_LRM_18_202010281032359_2001028103238_D001 CS_OFFL_SIR_LRM_18_202010281032359_2001028103238_D001 CS_OFFL_SIR_LRM_18_202010281032308_2001028103238_D001 CS_OFFL_SIR_LRM_18_202010281032308_2001028103238_D001 CS_OFFL_SIR_LRM_18_202010281032308_2001028103238_D001 CS_OFFL_SIR_LRM_18_20201028103308_2001028103238_D001 CS_OFFL_SIR_LRM_18_20201028103308_2001028103238_D001 CS_OFFL_SIR_LRM_18_20201028103308_2001028103238_D001 CS_OFFL_SIR_LRM_18_20201028103308_2001028103308_D001 CS_OFFL_SIR_LRM_18_20201028103308_2001028103408_D001 CS_OFFL_SIR_LRM_18_20201028103308_2001028103408_D001 CS_OFFL_SIR_LRM_18_20201028103608_	CS_OFFL_SIR_LRM_1B_20201028T000150_20201028T000232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T000547_20201028T000545_D001 CS_OFFL_SIR_LRM_18_20201028T000555_20201028T000545_D001 CS_OFFL_SIR_LRM_18_20201028T000155_20201028T000545_D001 CS_OFFL_SIR_LRM_18_20201028T001120_20201028T000145_D001 CS_OFFL_SIR_LRM_18_20201028T001120_20201028T000445_D001 CS_OFFL_SIR_LRM_18_20201028T000157_20201028T000445_D001 CS_OFFL_SIR_LRM_18_20201028T000157_20201028T000445_D001 CS_OFFL_SIR_LRM_18_20201028T001028_20201028T000445_D001 CS_OFFL_SIR_LRM_18_20201028T01028_20201028T00441_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T010418_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T010418_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T010418_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T010418_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T00414_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T00414_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T00414_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T02044_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T02044_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T02044_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T02044_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T02045_D001 CS_OFFL_SIR_LRM_18_20201028T010452_20201028T02045_D001 CS_OFFL_SIR_LRM_18_20201028T020452_20201028T02045_D001 CS_OFFL_SIR_LRM_18_20201028T020542_20201028T020540_D001 CS_OFFL_SIR_LRM_18_20201028T020542_20201028T020540_D001 CS_OFFL_SIR_LRM_18_20201028T020540_20201028T020540_D001 CS_OFFL_SIR_LRM_18_20201028T020540_20201028T020540_D001 CS_OFFL_SIR_LRM_18_20201028T020540_20201028T020540_D001 CS_OFFL_SIR_LRM_18_20201028T0020540_20201028T020540_D001 CS_OFFL_SIR_LRM_18_20201028T0020540_20201028T0020540_D001 CS_OFFL_SIR_LRM_18_20201028T0020540_20201028T0020540_D001 CS_OFFL_SIR_LRM_18_20201028T0020540_20201028T0020540_D001 CS_OFFL_SIR_LRM_18_20201028T00020540_20201028T00020540_D001 CS_OFFL_SIR_LRM_18_20201028T00020540_20201028T00020540_D001 CS_OFFL_SIR_LRM_18_20201028T00020540_20201028T00020540_D001 CS_OFFL_SIR_LRM_18_20201028T00020540_2020102	CS_OFFL_SIR_LRM_1B_20201028T000250_20201028T000256_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T000555_20201028T000354_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T0028T07_20201028T003405_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T0028T07_20201028T003405_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T003405_20201028T014550_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T01452_20201028T01450_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T01452_20201028T01461_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T014545_20201028T014618_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T0201452_20201028T014001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T0201452_20201028T020441_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T0201422_20201028T020451_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T0201422_20201028T0201423_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T0201422_20201028T0201423_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T02014028T021453_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020140550_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020140550_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020140550_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T02014050_D001 Loss of exho The tracking exho is missing for on	CS_OFFL_SIR_LRM_1B_20201028T000301_20201028T000544_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T002817_20201028T001117_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002817_20201028T003469_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002817_20201028T003469_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T003282_20201028T010155_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T01542_20201028T01401_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T01545_20201028T01401_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T00317_20201028T00401_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T00317_20201028T00401_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002624_20201028T002014_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002640_20201028T00266_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002650_20201028T00266_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002650_20201028T00266_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002650_20201028T002660_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002650_20201028T002660_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002650_0001028T002660_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002600_0001028T002660_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T002600_0001028T002660_0001 Los	CS_OFFL_SIR_LRM_1B_20201028T000547_20201028T000551_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_1B_20201028T00128D_0001128_D00128T0028D_00011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T0028D_0001028T0028D004D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T001038B_0001028T010115D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T01038B_02001028T01115D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T01145L_20201028T014011_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T0124D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T01214D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T01214D_001028T01243D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T01214D_001028T01243D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T01214D_001028T012305D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T01214D_001028T012305D_0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T012305D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T012305D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T012305D_001028T012305D_0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T012305D_001028T012305D_0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T012305D_001028T012305D_0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T012305D_001028T012305D_0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201028T043031_20201028T	CS_OFFL_SIR_LRM_1B_20201028T000555_20201028T000834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T002819_20201028T003694_D001	CS_OFFL_SIR_LRM_1B_20201028T000837_20201028T001117_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T001826_20201028T0111155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T011345_20201028T0141155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T011345_20201028T014115D01 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T013145_20201028T020141_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T020347_20201028T020341_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T020342_20201028T020345_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T0221342_20201028T020355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T020355_02001028T020355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T020369_20201028T020350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T02055_020201028T02030B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T02055_020201028T02030B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T0305_020201028T02030B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T04432_20201028T04437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044442_20201028T04437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044442_20201028T04437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044442_20201028T04435_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T04430_20201028T04430_D001 Loss of echo The tracking ech	CS_OFFL_SIR_LRM_1B_20201028T001120_20201028T001248_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T010328_20201028T011155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T014345_20201028T014818_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020524_20201028T020914_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020524_20201028T020914_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T021122_20201028T021243_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T021242_20201028T022851_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T022551_20201028T023555_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020559_20201028T023308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020559_20201028T023308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020559_20201028T023280_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T044322_20201028T023284_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T044322_20201028T044447_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T044322_20201028T04447_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T044322_20201028T054032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064032_20201028T064032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064032_20201028T064031_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064032_20201028T064287_D001 Loss of echo The track	CS_OFFL_SIR_LRM_1B_20201028T002817_20201028T003405_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T014542_20201028T014510_D001	CS_OFFL_SIR_LRM_1B_20201028T003650_20201028T005944_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T04345_20201028T02401_D001 CS_OFFL_SIR_LRM_18_20201028T020317_20201028T020914_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T020317_20201028T020914_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T021248_20201028T02345_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T021248_20201028T023256_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T032056_20201028T032356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T032056_20201028T032350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T03255_20201028T032500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T03255_20201028T032500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T03255_20201028T032500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T03255_20201028T03250_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T044322_20201028T04437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T044340_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T04506_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T04506_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064025_20201028T06403_20010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064025_20201028T064400_20010 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201028T010328_20201028T011155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T020317_20201028T020401_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T021122_20201028T02342_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T021122_20201028T023851_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T021529_20201028T032355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T032552_0201028T0323056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T032552_0201028T032306_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T032552_0201028T032306_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T032552_0201028T032847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T032568_20201028T032847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T04432_20201028T032847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T04432_20201028T04437_1D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T04430_20201028T04437_1D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T04430_20201028T050201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T045301_20201028T05041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T06403_20201028T06400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T06403_20201028T06403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T06403_20201028T06403_D001 Loss of echo The tracking echo is mi	CS_OFFL_SIR_LRM_1B_20201028T011542_20201028T014011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T020524_20201028T020914_D001	CS_OFFL_SIR_LRM_1B_20201028T014345_20201028T014818_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T021122_20201028T023851_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T025248_20201028T032385_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032059_20201028T032308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032059_20201028T032308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032355_20201028T032580_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032554_20201028T032680_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032608_20201028T032847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044322_20201028T034437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044432_20201028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T04437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T045850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T0545012_20201028T0545021_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T054032_20201028T054032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T054032_20201028T054032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T06405_20201028T064103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T06405_20201028T064103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T06403_20201028T0641	CS_OFFL_SIR_LRM_1B_20201028T020317_20201028T020401_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T02124B_20201028T033265_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032595_20201028T033265_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032355_20201028T032350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032555_20201028T032580_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032554_20201028T032580_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032568_20201028T033280_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044322_20201028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044322_20201028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T04430_20201028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T045122_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045301_20201028T04580_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050139_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T050450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T0504391_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064152_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064135_20201028T064135_D001 Loss of echo The tracki	CS_OFFL_SIR_LRM_1B_20201028T020524_20201028T020914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T032551_20201028T032556_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032555_20201028T032500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032555_20201028T032500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032555_20201028T032800_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T034502_20201028T032847_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044440_Z0201028T034473_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044440_Z0201028T04473_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044440_Z0201028T04473_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045102_20201028T045122_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045103_20201028T045500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_D001028T050500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060312_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T060500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064050_20201028T064050_T0040001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064050_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T	CS_OFFL_SIR_LRM_1B_20201028T021122_20201028T021243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T032059_20201028T032308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032554_20201028T032947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032554_20201028T032947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T034290_20201028T034437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T0444447_D001028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T0444447_D001028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044444_02021028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045301_20201028T045212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045301_20201028T04520_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050339_20201028T050040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050329_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T06403_20201028T06409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T06405_20201028T06409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T073142_20201028T064034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T073406_20201028T064034_	CS_OFFL_SIR_LRM_1B_20201028T021248_20201028T023851_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T032355_20201028T032608_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032568_20201028T032608_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T032608_20201028T04437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044322_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T04440_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T045850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045103_20201028T05403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050139_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064121_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084450_D001 Loss of echo The tracking	CS_OFFL_SIR_LRM_1B_20201028T025510_20201028T032056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T032554_20201028T032847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044322_20201028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044402_20201028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T045122_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T045850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050139_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T0505040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060403_20201028T0603931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060403_20201028T0603931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060405_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060405_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060403_20201028T060403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060403_20201028T060403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T060403_20201028T06403_D001 Loss of echo The tra	CS_OFFL_SIR_LRM_1B_20201028T032059_20201028T032308_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T032608_20201028T044437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044440_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T045122_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045301_20201028T045850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050139_20201028T050211_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064035_20201028T064039_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064013_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T073552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T074406_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084034_D001 Loss of echo The trac	CS_OFFL_SIR_LRM_1B_20201028T032355_20201028T032520_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T044442_20201028T044447_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T044440_20201028T044512_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T045301_20201028T045850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050139_20201028T050211_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050139_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T05040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064091_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T074406_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084950_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 tracki	CS_OFFL_SIR_LRM_1B_20201028T032554_20201028T032608_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T044440_20201028T044731_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T045301_20201028T045850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050139_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050403_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050403_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050403_20201028T050540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064351_20201028T063931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064050_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064121_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064145_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T073124_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T074406_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T084038_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T084038_20201028T08450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T086816_20201028T086954_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T086816_20201028T086954_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T086816_20201028T086954_D001 Loss of echo The track	CS_OFFL_SIR_LRM_1B_20201028T032608_20201028T032847_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201028T045106_20201028T045850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050139_20201028T050211_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T050403_20201028T050540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T063351_20201028T0630931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064050_20201028T0640199_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064121_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064145_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T064145_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T073124_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T084038_20201028T084045_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T084038_20201028T084045_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T08588_20201028T0895954_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T08598_20201028T090022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T08958_20201028T090022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201028T08958_20201028T090024_20001028T090034_D001 Loss of	CS_OFFL_SIR_LRM_1B_20201028T044322_20201028T044437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T045301_20201028T050211_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_20201028T050540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T063351_20201028T063931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064121_20201028T06413B_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one	CS_OFFL_SIR_LRM_1B_20201028T044440_20201028T044731_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T050139_20201028T050211_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T050403_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_20201028T050403_20201028T063931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064121_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064257_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_20201028T073124_20201028T073552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T074406_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084034_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_20201028T085816_20201028T085954_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is m	CS_OFFL_SIR_LRM_1B_20201028T045106_20201028T045122_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T063351_20201028T063931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T063931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064121_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T073124_20201028T073552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T074406_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T085858_20201028T085954_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T085958_20201028T090022_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_20201028T085958_20201028T090022_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_20201028T090024_20201028T090034_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201028T045301_20201028T045850_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T0630403_20201028T063931_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T063351_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064121_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T0641257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T074145_20201028T073552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T074406_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T083918_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T0859616_20201028T085954_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T085958_20201028T090022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T085958_20201028T090022_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_20201028T050139_20201028T050211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T063951_20201028T0640109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064050_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064121_20201028T064138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T064145_20201028T064257_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T073124_20201028T073552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T074406_20201028T074821_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T084038_20201028T084450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T085816_20201028T080022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201028T085958_20201028T090022_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_20201028T085958_20201028T090034_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201028T050228_20201028T050403_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20201028T191419_20201028T191912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T193143_20201028T195835_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201028T192617_20201028T193134_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201028T193143_20201028T195835_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201028T195839_20201028T195857_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T195900_20201028T200038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T200040_20201028T200106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T200108_20201028T200124_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T200128_20201028T200233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T210557_20201028T211123_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T211203_20201028T211313_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T211315_20201028T212117_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T212120_20201028T212243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T212724_20201028T213455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T213538_20201028T213641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T213643_20201028T213747_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T213749_20201028T213818_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T213822_20201028T213841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T213843_20201028T213854_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T213859_20201028T214018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T214023_20201028T214129_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T214132_20201028T214150_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T221338_20201028T222835_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T223517_20201028T223733_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T224510_20201028T225912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T230052_20201028T231652_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T231724_20201028T231758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201028T231800_20201028T232145_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.

0

Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

1

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 20201028T032608 20201028T032847 D001	Echo error. TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set,
C3_O11	Echo enoi, Titti echo enoi	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:

0

5.4 L2 Auxiliary Correction Error Check

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

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:

Number of products with errors: 76		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201028T000250_20201028T000256_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201028T000555_20201028T000834_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20201028T001120_20201028T001248_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201028T002421_20201028T002654_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_220201028T002817_20201028T003405_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_220201028T003650_20201028T005944_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_220201028T011542_20201028T014011_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_2_20201028T021248_20201028T023851_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_220201028T025510_20201028T032056_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_220201028T033000_20201028T033234_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_220201028T034610_20201028T041632_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_220201028T050941_20201028T051117_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_220201028T051138_20201028T051154_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_220201028T052356_20201028T055637_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_220201028T061444_20201028T063041_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_20201028T070038_20201028T073113_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_2_20201028T073124_20201028T073552_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_220201028T075340_20201028T081750_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_220201028T084038_20201028T084450_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_220201028T084542_20201028T085336_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_220201028T085816_20201028T085954_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_220201028T085958_20201028T090022_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_20201028T090040_20201028T090850_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_220201028T090949_20201028T091507_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_220201028T093412_20201028T094636_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_220201028T094821_20201028T095706_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_220201028T095833_20201028T100535_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_220201028T102154_20201028T102402_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201028T102807_20201028T103736_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_220201028T103939_20201028T104651_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_220201028T112131_20201028T112201_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201028T112805_20201028T113223_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_220201028T113227_20201028T113620_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_20201028T113749_20201028T114102_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_220201028T114226_20201028T114447_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_220201028T114523_20201028T114556_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_220201028T120442_20201028T120749_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201028T121812_20201028T123239_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_220201028T124903_20201028T131052_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_220201028T131105_20201028T131450_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_220201028T133641_20201028T133941_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_220201028T134738_20201028T141147_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_220201028T142755_20201028T145415_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_220201028T145611_20201028T145643_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_220201028T145738_20201028T145853_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_220201028T152254_20201028T152520_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201028T152608_20201028T153101_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_220201028T153103_20201028T153204_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_220201028T153207_20201028T155116_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_220201028T160842_20201028T164113_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_220201028T165300_20201028T165600_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_220201028T172015_20201028T172400_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_220201028T173450_20201028T174012_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201028T174737_20201028T180822_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_220201028T181108_20201028T182240_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_220201028T183225_20201028T183619_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_220201028T183937_20201028T184145_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_220201028T185223_20201028T185713_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_220201028T185901_20201028T190837_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_220201028T192617_20201028T193134_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_220201028T193143_20201028T195835_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_220201028T195900_20201028T200038_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_220201028T202355_20201028T204651_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_220201028T210557_20201028T211123_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_220201028T211315_20201028T212117_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_220201028T212120_20201028T212243_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_220201028T212724_20201028T213455_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_220201028T215557_20201028T220241_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_220201028T220308_20201028T221123_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_220201028T221338_20201028T222835_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_220201028T224510_20201028T225912_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_220201028T230052_20201028T231652_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_220201028T233215_20201028T233225_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_220201028T233438_20201028T234453_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_220201028T234616_20201028T234852_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_220201028T235502_20201029T000851_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

6. QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors

SIR_LRM_1B	199	199	199	0	0
SIR_SAR_1B	113	113	113	0	0
SIR_SIN_1B	112	112	112	0	0
SIR_LRM_2	195	195	188	7	0
SIR_SAR_2	112	107	107	0	0
SIR_SIN_2	107	112	112	0	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

Product T	pe MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	•	-
SIR_GDR_	2_ 14	14	14	14	14	14	14	14			

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

6.2 QCC Warnings

Number of QCC reports with warnings

Total number of occurrences of each warning

Product Type	AXSMMEOCI	AXSMEOOO	AXWMME000	-	-	-	-
SIR_GDR_2_	1	0	0				
SIR I RM 2	6	2	2				

Test Description Key:						
Abbreviation	Test name	Details				
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice				
AXSMEOOO	AttributeXrefSsbMustExistOverOpenOcean	The xref_ssb is mandatory in LRM products over open ocean				
AXWMMEOOO	AttributeXrefWindModelMustExistOverOpenOcean	The xref_wind_model attribute is mandatory in LRM products over open ocean				

6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name
CS_OFFL_SIR_GDR_2_20201028T230154_20201029T004109_D002