

02/11/2020



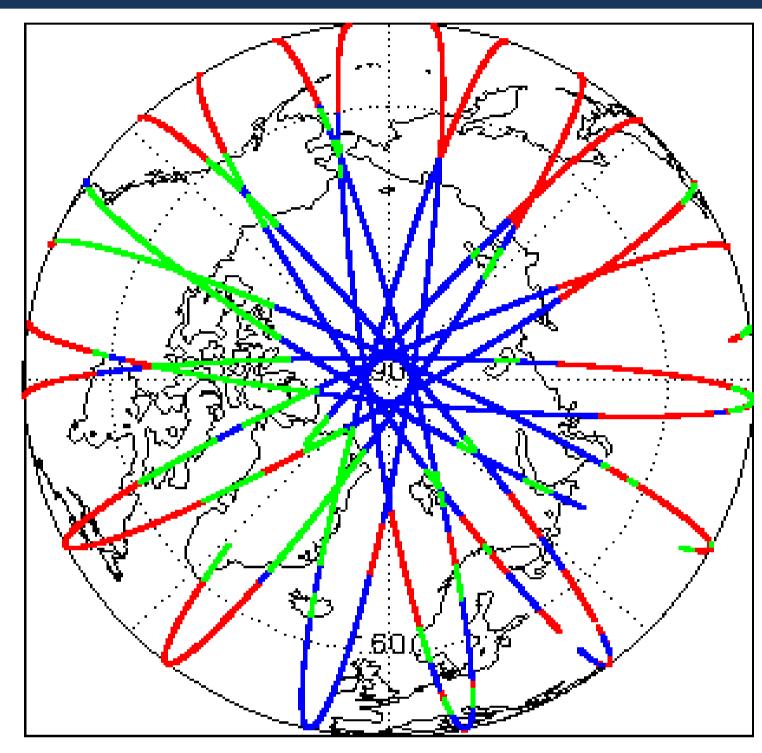
1. Overview

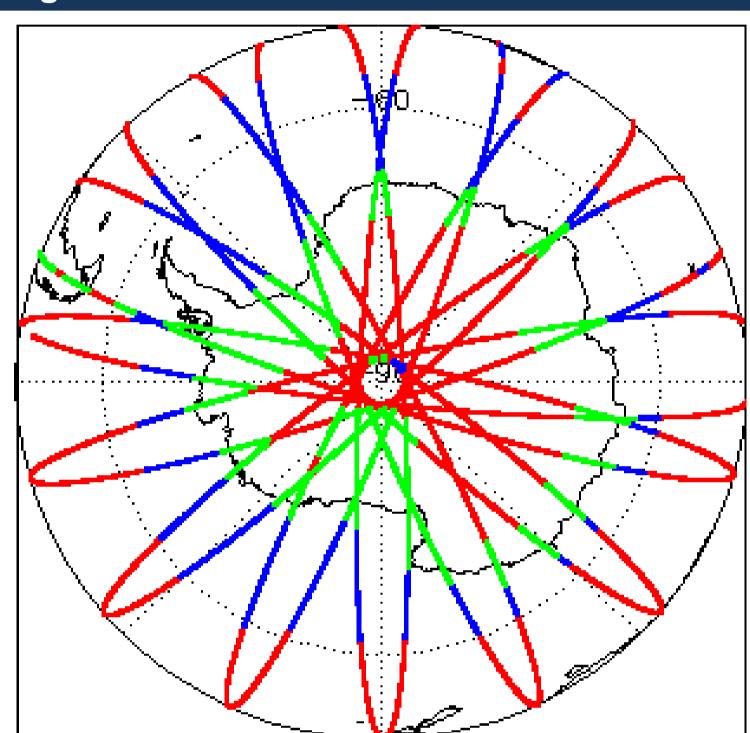
Report Production Date:	02-Dec-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

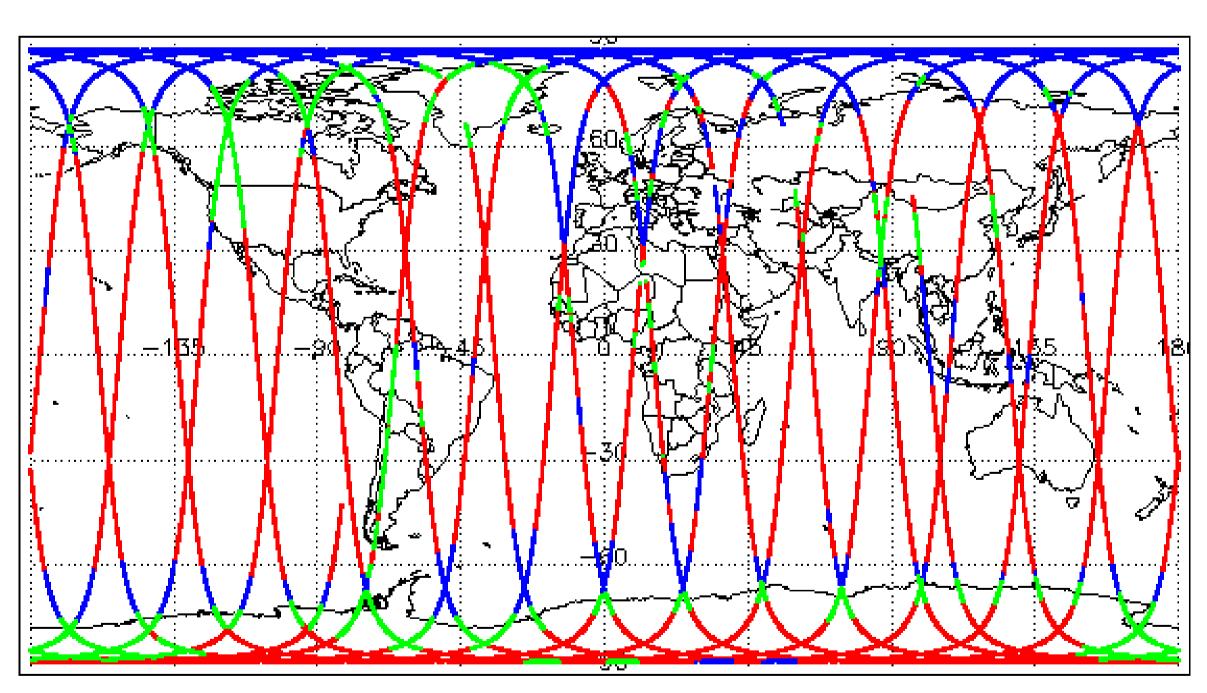
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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

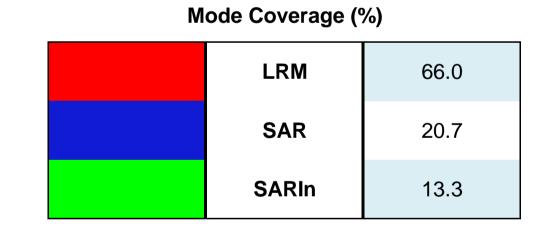
Mission / Instrument News				
01-Nov-2020	None			
02-Nov-2020	None			
03-Nov-2020	Nothing planned			

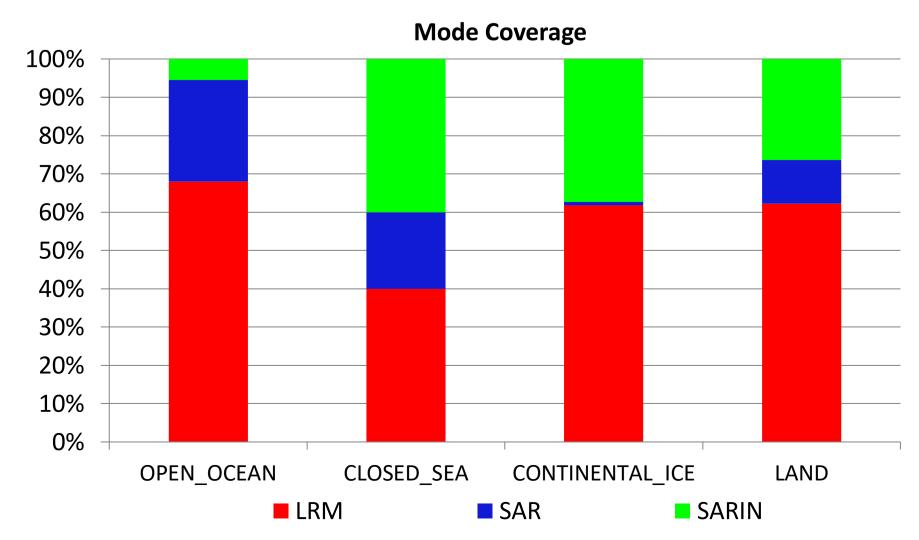
2. Global Coverage

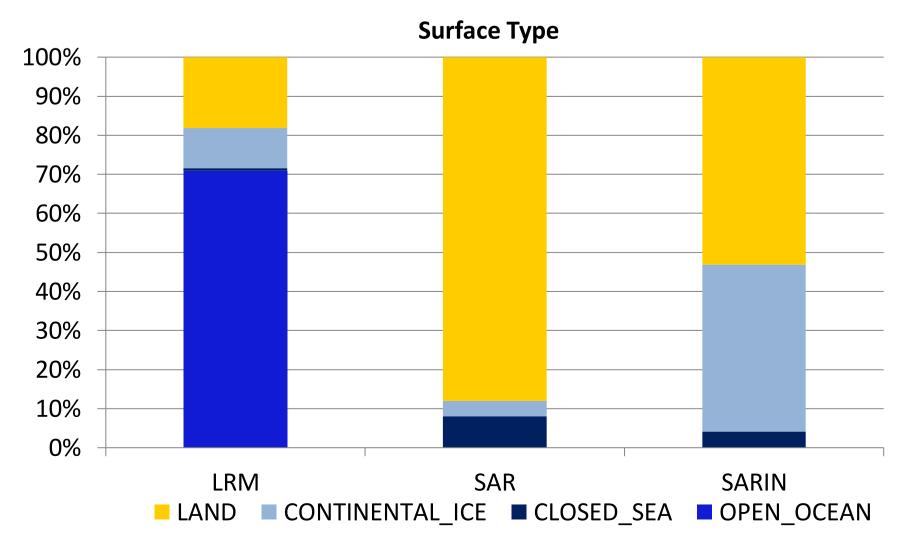












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

0

106

4. Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

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

Number of products with errors:

4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 L1B Tracking Flags Check

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

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

Number of products with errors:

Co. OFT. SR. LPA 2.02211027003091 2.02211027003091 2.002 0.002	Product	Test Failed	Description
CS_OFF_SR_IRM_IB_2000*100700829_2001100700829_2001 Los of scrip CS_OFF_SR_IRM_IB_2000*1007108292_20011007010952_2001 Los of scrip CS_OFF_SR_IRM_IB_2000*10071070092_20011007010952_2001 Los of scrip CS_OFF_SR_IRM_IB_2000*1007007009_20011007010952_2001 Los of scrip CS_OFF_SR_IRM_IB_2000*1007007009_20011007010952_2000 Los of scrip CS_OFF_SR_IRM_IB_2000*1007007009_20011007007009_2000 Los of scrip CS_OFF_SR_IRM_IB_2000*1007007009_2001100700290_2000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700290_2001100700290_2000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700290_20001100700290_2000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700290_20001100700290_20000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700290_20001100700290_20000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700290_20001100700290_20000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700390_20001100700390_20000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700390_20001100700390_200000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700390_20001100700390_20000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700390_20001100700390_20000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700390_20001100700390_200000 Los of scrip CS_OFF_SR_IRM_IB_2000*100700390_20001100700390_2000000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20201102T000913_20201102T001750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LML_19_202011021010105_2020110210105_20001 CS_OFFL_SR_LML_19_20201102101105_2020110210105_20001 CS_OFFL_SR_LML_19_202011021010205_20001102101405_0001 CS_OFFL_SR_LML_19_20201102101205_20001102101405_0001 CS_OFFL_SR_LML_19_2020110210205_20001102101405_0001 CS_OFFL_SR_LML_19_2020110210205_2000110210405_00001 CS_OFFL_SR_LML_19_2020110210205_20001102102547_0001 CS_OFFL_SR_LML_19_2020110210205_20001102102545_00001 CS_OFFL_SR_LML_19_20201102102053_20001102102555_0001 CS_OFFL_SR_LML_19_20201102102053_20001102102555_00001 CS_OFFL_SR_LML_19_202011021020535_20001102102555_00001 CS_OFFL_SR_LML_19_202011021030545_2000110210555_00001 CS_OFFL_SR_LML_19_202011021030545_2000110210555_00001 CS_OFFL_SR_LML_19_202011021030545_2000110210555_00001 CS_OFFL_SR_LML_19_202011021030545_2000110210555_00001 CS_OFFL_SR_LML_19_202011021030545_2000110210555_00001 CS_OFFL_SR_LML_19_202011021030555_00001 CS_OFFL_SR_LML_19_202011021030555_00001 CS_OFFL_SR_LML_19_20201102103055_2000110210555_00001 CS_OFFL_SR_LM	CS_OFFL_SIR_LRM_1B_20201102T005001_20201102T005019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_CFFL_SR_LRM_18_2001102701305_2001102704200_0001001000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20201102T005022_20201102T005029_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LRM_IB_202011027012054_202011127012492_D011 CS_OFF_SR_LRM_IB_202011027012492_202011027012492_D011 CS_OFF_SR_LRM_IB_20201102702233 20201120702327 D011 CS_OFF_SR_LRM_IB_20201102702233 20201120702327 D011 CS_OFF_SR_LRM_IB_20201102702233 20201120702327 D011 CS_OFF_SR_LRM_IB_20201102702233 20201120702327 D011 CS_OFF_SR_LRM_IB_2020110270233 20201120702327 D011 CS_OFF_SR_LRM_IB_2020110270233 20201120702327 D011 CS_OFF_SR_LRM_IB_2020110270233 20201120702327 D011 CS_OFF_SR_LRM_IB_2020110270233 20201120702327 D011 CS_OFF_SR_LRM_IB_20201102702324 20201120702324 D0011 CS_OFF_SR_LRM_IB_20201102702324 20201120702324 D0011 CS_OFF_SR_LRM_IB_20201102703242_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102703242_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102703242_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102703242_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102704000_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102704000_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102704000_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102704000_20201120704000_D011 CS_OFF_SR_LRM_IB_20201102704000_202011120704000_D011 CS_OFF_SR_LRM_IB_20201102704000_202011120704000_D0	CS_OFFL_SIR_LRM_1B_20201102T005100_20201102T005622_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_20201102T02054_20201102T04102T0 Loss of etho	CS_OFFL_SIR_LRM_1B_20201102T011106_20201102T012003_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_1B_20201107T02417_20001102T022410_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T022413_20001102T022237_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T022342_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T02342_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T02342_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T02342_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_20201102T04000_DOOL Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201102T012006_20201102T012051_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL Sir LRM 18 202011027022413 202011027023247 DOO! Loss of exha	CS_OFFL_SIR_LRM_1B_20201102T012054_20201102T014428_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LEM_IB_20201102702233_20201102702324F0_0001 Loss of eithe	CS_OFFL_SIR_LRM_1B_20201102T020417_20201102T022410_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 20201102703516 20201102703515 20201102703516 20011 Coss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102703516 20201102703574_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202011027030342_202011027040015 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704002_202011027040030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704000_202011027040030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704000_202011027040030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704000_202011027040030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704000_2020011027040030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704000_2020011027040030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704000_2020011027040030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704000_2020011027040050_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704400_20201102704105_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704400_202011027044005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102704400_202011027044005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102705400_20201102705400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102705400_20201102705400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102705400_2020110270540	CS_OFFL_SIR_LRM_1B_20201102T022413_20201102T022827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201102T03516_20201102T03543_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T033498_20201102T040016_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040304_020201102T040036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040304_020201102T040038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040304_020201102T040038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040304_020201102T040038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040308_020201102T040038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040038_20201102T040039_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040038_20201102T040038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040038_20201102T041015_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T04048_20201102T041045_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T044048_20201102T045407_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T045430_20201102T052710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054404_20201102T054708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054404_20201102T05400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T05430_20201102T05400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T05430_20201102T05430_D001 Loss of	CS_OFFL_SIR_LRM_1B_20201102T022933_20201102T023247_D001	Loss of echo	The tracking echo is missing for one or more records
CS, OFFL SIR LRM. 18. 20201102T040202 20201102T04001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T04002 20201102T040301, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T0400304, 20201102T040304, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T0400304, 20201102T040304, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T0400304, 20201102T0400581, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T040082, 20201102T04019, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T040080, 20201102T0400581, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T040080, 20201102T0400581, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T040080, 20201102T041015, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T041412, 20201102T041224, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T041410, 20201102T041270, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T041412, 20201102T045710, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T05422, 20201102T054710, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T05492, 20201102T05490, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T05494, 20201102T05490, D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL SIR LRM. 18. 20201102T05494, 20201102T05490, D001 Loss of echo The tracking echo is missing for	CS_OFFL_SIR_LRM_1B_20201102T023247_20201102T023450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201102T040302_20201102T040301_D001	CS_OFFL_SIR_LRM_1B_20201102T025516_20201102T025543_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 20201102T040304 20201102T040304 D001	CS_OFFL_SIR_LRM_1B_20201102T033948_20201102T035740_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL_SIR_LRM_1B_20201102T040304_20201102T040535_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T040632_20201102T040535_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T040622_20201102T040707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T040622_20201102T040707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T040968_20201102T040958_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T040968_20201102T041024_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T041048_20201102T041224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T041048_20201102T050570_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T052714_20201102T053353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T053429_20201102T053353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T05408_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T05496_20201102T054906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054986_20201102T054906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074932_20201102T074930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074944_20201102T074937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074942_20201102T074937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074932_20201102T074937_D001 Loss of echo The trackin	CS_OFFL_SIR_LRM_1B_20201102T035742_20201102T040015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201102T040308_20201102T040619_D001	CS_OFFL_SIR_LRM_1B_20201102T040020_20201102T040301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201102T040603_20201102T0406819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040621_20201102T040688_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040688_20201102T040688_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T040688_20201102T041016_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T041418_20201102T041407_D0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T052550_20201102T041507_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T052550_20201102T052701_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T0525714_20201102T053353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T053429_20201102T053719_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054488_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054488_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054488_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054888_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054988_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074527_20201102T074758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T004585_20201102T0	CS_OFFL_SIR_LRM_1B_20201102T040304_20201102T040304_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T040962 20201102T040958 D001	CS_OFFL_SIR_LRM_1B_20201102T040308_20201102T040535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T040958_20201102T040958_D001	CS_OFFL_SIR_LRM_1B_20201102T040603_20201102T040619_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T040958_20201102T041015_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T04124_20201102T052710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T052550_20201102T052710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T052714_20201102T053353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T053429_20201102T053719_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054406_20201102T054406_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054406_20201102T054406_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054406_20201102T054406_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054906_20201102T054905_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T07103_20201102T071790_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071744_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T0717453_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T092559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T0925550_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092553_20201102T09	CS_OFFL_SIR_LRM_1B_20201102T040621_20201102T040707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T041048_20201102T04124_D001	CS_OFFL_SIR_LRM_1B_20201102T040906_20201102T040958_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201102T041410_20201102T041507_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T052550_20201102T052710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T052714_20201102T053353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054233_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054846_20201102T054906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054846_20201102T054906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054906_20201102T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071053_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071724_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071844_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074529_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T0792345_20201102T092559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092655_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092656_20201102T092554_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 tra	CS_OFFL_SIR_LRM_1B_20201102T040958_20201102T041015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201102T052550_20201102T052710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T053429_20201102T053719_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054233_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054846_20201102T054906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054846_20201102T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071053_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071724_20201102T0772327_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071844_20201102T0772327_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074539_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092345_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092345_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092555_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092555_20201102T094530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T094506_20201102T094309_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_18_20	CS_OFFL_SIR_LRM_1B_20201102T041048_20201102T041224_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201102T052714_20201102T053353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054233_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054233_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054964_20201102T054906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T054906_20201102T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071053_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T071844_20201102T072327_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T074537_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092345_20201102T092509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092551_20201102T092551_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092552_20201102T092551_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092556_20201102T094509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201102T092566_20201102T094309_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 CS_OFFL_S	CS_OFFL_SIR_LRM_1B_20201102T041410_20201102T041507_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T053429_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054846_20201102T054906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054906_20201102T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071053_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071754_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_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_20201102T071724_20201102T071758_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_20201102T071724_20201102T071758_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_20201102T074537_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	CS_OFFL_SIR_LRM_1B_20201102T052550_20201102T052710_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T054233_20201102T054408_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T054906_20201102T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071053_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071753_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071844_20201102T0772327_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092455_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_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_20201102T092536_20201102T094309_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	CS_OFFL_SIR_LRM_1B_20201102T052714_20201102T053353_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T054846_20201102T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071053_20201102T071709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074844_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092345_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092455_20201102T09259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092511_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T094309_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_20201102T094506_20201102T094309_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_20201102T053429_20201102T053719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T054906_20201102T074925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071844_20201102T07232T_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T07452T_20201102T07453T_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T082036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092345_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092455_20201102T092509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092511_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092606_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T094506_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T094506_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201102T054233_20201102T054408_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T071753_20201102T071759_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071844_20201102T072327_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092345_20201102T092509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092511_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092511_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092506_20201102T094309_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_20201102T094506_20201102T094309_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_20201102T054846_20201102T054906_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T071724_20201102T071758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T071844_20201102T072327_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074527_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T082036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092345_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092455_20201102T092509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092511_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092506_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092606_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T094506_20201102T094309_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_20201102T094506_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201102T054906_20201102T054925_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T071844_20201102T072327_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074537_20201102T074537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T074539_20201102T082036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092345_20201102T092452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092545_20201102T092509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092511_20201102T092531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T092554_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092535_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201102T092606_20201102T094309_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_20201102T094506_20201102T094309_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_20201102T094506_20201102T094309_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201102T071053_20201102T071709_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20201102T092606_20201102T094309_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201102T102828_20201102T103100_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T103342_20201102T104940_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T110239_20201102T110555_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T110600_20201102T110607_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T110609_20201102T110706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T110708_20201102T110724_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T110727_20201102T110752_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T110756_20201102T111802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T115439_20201102T122802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T124114_20201102T124909_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T125013_20201102T125055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T125510_20201102T125552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T132238_20201102T132611_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T132633_20201102T132957_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T133328_20201102T140037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T140042_20201102T140133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T142239_20201102T142337_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T142356_20201102T143109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T143142_20201102T143300_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T143305_20201102T145655_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T160242_20201102T160543_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T160616_20201102T160702_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T160859_20201102T161234_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T161237_20201102T161917_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T162112_20201102T162211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T162251_20201102T162821_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T164021_20201102T164559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T174106_20201102T174108_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T174445_20201102T174531_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T174547_20201102T174557_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T174638_20201102T174648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T175025_20201102T175200_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T175343_20201102T175734_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T181945_20201102T182455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T183151_20201102T190642_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T190644_20201102T190734_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T193447_20201102T195224_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T201134_20201102T202657_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T203300_20201102T204544_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T204548_20201102T204610_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201102T204626_20201102T204635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T204638_20201102T204639_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T204642_20201102T204645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T204649_20201102T204651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T204653_20201102T204700_D001	Loss of echo	The tracking echo is missing for one or more records
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UO UEEL OIK LKIVI 16 202011021204703 202011021204712 13001	ILOUG OF BOILE	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201102T204716_20201102T204742_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T204716_20201102T204742_D001 CS_OFFL_SIR_LRM_1B_20201102T211914_20201102T213254_D001	Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201102T204716_20201102T204742_D001 CS_OFFL_SIR_LRM_1B_20201102T211914_20201102T213254_D001 CS_OFFL_SIR_LRM_1B_20201102T214110_20201102T214309_D001	Loss of echo Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
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4.5 L1B Calibration Usage Check

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

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Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201102T223823_20201102T225615_D001	TECNO error TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

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: 44

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201102T002053_20201102T004252_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_220201102T012054_20201102T014428_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_220201102T020417_20201102T022410_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_220201102T025516_20201102T025543_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_220201102T025739_20201102T032223_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_220201102T033948_20201102T035740_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_220201102T040020_20201102T040301_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_220201102T041410_20201102T041507_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_220201102T042900_20201102T050223_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_220201102T060755_20201102T061744_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_220201102T062029_20201102T064150_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_220201102T065925_20201102T070905_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_220201102T071053_20201102T071709_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_220201102T071844_20201102T072327_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_220201102T074539_20201102T082036_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_220201102T083944_20201102T091012_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_220201102T092606_20201102T094309_D001	TICHIACKEL 31 DACKSCAHEL FILOL	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_220201102T094506_20201102T100021_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_220201102T101708_20201102T102722_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_220201102T103342_20201102T104940_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_220201102T110756_20201102T111802_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_220201102T112045_20201102T112328_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_220201102T115439_20201102T122802_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_220201102T124114_20201102T124909_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201102T125636_20201102T131729_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_220201102T133328_20201102T140037_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_220201102T143305_20201102T145655_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_220201102T151343_20201102T154635_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_220201102T155938_20201102T160126_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_220201102T161237_20201102T161917_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_220201102T165331_20201102T172551_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_220201102T175830_20201102T181407_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_220201102T183151_20201102T190642_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_220201102T192931_20201102T193353_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_220201102T193447_20201102T195224_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_220201102T201134_20201102T202657_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_220201102T202700_20201102T203231_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_220201102T203300_20201102T204544_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_220201102T205952_20201102T211807_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_220201102T211914_20201102T213254_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_220201102T215021_20201102T220532_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_220201102T220733_20201102T221656_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_220201102T223823_20201102T225615_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_220201102T230218_20201102T230249_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of 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	170	170	170	0	0
SIR_SAR_1B	120	120	120	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_LRM_2	164	164	162	2	0
SIR_SAR_2	109	119	119	0	0
SIR_SIN_2	119	109	107	2	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Product Type

Number of products with QCC errors:

MPHDUTNCDF

MPHXPFNCDF

15

MPHYPFNCDF

MPHXVFNCDF

SIR_GDR_2_	15	15	15	15	15	15	15	-		
Test Description	n Key:									
Abbreviation	Test na	me		Details						
MPHDUTNCDF	MPH_De	elta_UT1_NetCDF		Delta_UT1 mismatch						
MPHXPFNCDF	MPH_X_	Position_Float_v2_	NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)						

MPHZPFNCDF

MPHZVFNCDF

MPHYVFNCDF

Appreviation	rest name	Details
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)

6.2 QCC Warnings

Number of QCC reports with warnings

7

Total number of occurrences of each warning

	retail fidulises of educationing						
Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	-	•	-
SIR_GDR_2_	0	1	1	1			
SIR LRM 2	0	2	0	0			

Test Description Key:						
Abbreviation	Test name	Details				
AXDME	AttributeXrefDemMustExist	The xref_dem attribute is mandatory in SIN products over continental ice				
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice				
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__20201102T234646_20201103T012601_D002