

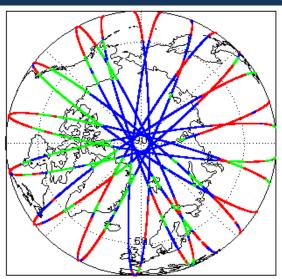
1. Overview

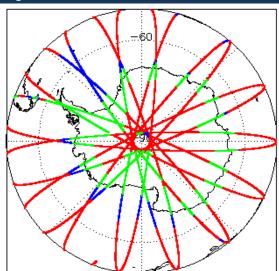
Report Production Date: 16-Mar-2021	
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

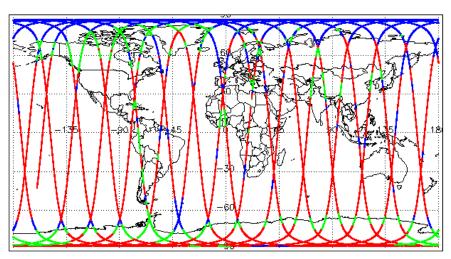
Check	Status		
Server check: science-pds.cryosat.esa.int	Nominal		
Server check: calval-pds.cryosat.esa.int	Nominal		
Product Software Check	Nominal		
Product Format Check	Nominal		
Product Header Analysis	Nominal		
Star Tracker Usage Check	Nominal		
L1B Tracking Flag Check	See Section 4.4		
L1B Calibration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

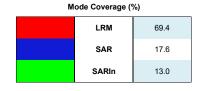
Mission / Instru	Mission / Instrument News				
12-Feb-2021	None				
13-Feb-2021	None				
14-Feb-2021	Nothing planned				

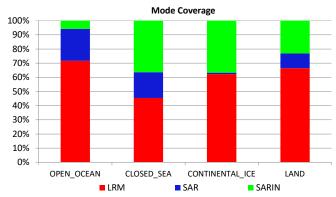
2. Global Coverage

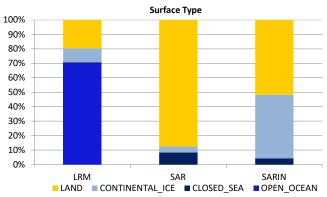












3. Instrument Configuration

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.

umber of products with errors: 13

Co. OFFL. SIR. LPM. 16. 202102137000101_20112 2010013700015_D011 Co. OFFL. SIR. LPM. 16. 202102137000116_20210213700035_D011 Co. OFFL. SIR. LPM. 16. 202102137000116_20210213700035_D011 Co. OFFL. SIR. LPM. 16. 202102137000116_20210213700035_D011 Co. OFFL. SIR. LPM. 16. 20210213700016_20210213700035_D011 Co. OFFL. SIR. LPM. 16. 20210213700036_20210213700352_D011 Co. OFFL. SIR. LPM. 16. 202102137010366_20210213700362_D011 Co. OFFL. SIR. LPM. 16. 202102137010366_2021021370362_D011 Co. OFFL. SIR. LPM. 16. 202102137010366_2021021370362_D011 Co. OFFL. SIR. LPM. 16. 2021021370362_D012011370362_D011 Co. OFFL. SIR. LPM. 16. 2021021370362_D0120113703682_D011 Co. OFFL. SIR. LPM. 16. 20210213703370370_D0120113703882_D011 Co. OFFL. SIR. LPM. 16. 202102137033703_D0120113703882_D011 Co. OFFL. SIR. LPM. 16. 202102137033703_D0120113703882_D011 Co. OFFL. SIR. LPM. 16. 202102137033703_D0110011 Co. OFFL. SIR. LPM. 16. 202102137033832_D01101 Co. OF	Product	Test Failed	Description
CS_OFF_SR_IRM_IB_20210213T000115_20100355_D001	CS_OFFL_SIR_LRM_1B_20210213T000002_20210213T000014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_20210213703084_20210213703286_0001 CS_OFFL_SR_LRM_18_20210213703386_20210213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_20210213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_20210213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_20210213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_2002137035830_0001 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_20021 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_200213703580_0001 CS_OFFL_SR_LRM_18_20210213703580_2002123703590_0001 CS_OFFL_SR_LRM_18_20210213703580_2002123703590_0001 CS_OFFL_SR_LRM_18_20210213703580_2002123703590_0001 CS_OFFL_SR_LRM_18_20210213703580_2002123703590_0001 CS_OFFL_SR_LRM_18_20210213703580_2002123703590_0001 CS_OFFL_SR_LRM_18_20210213703580_2002123703590_0001 CS_OFFL_SR_LRM_18_20210213703580_20021023703590_0001 CS_OFFL_SR_LRM_18_2021021370370360_200210370360_0001 CS_OFFL_SR_LRM_18_2021021370370360_200010370360_0001 CS_OFFL_SR_LRM_18_2021021370370360_200010370360_0001 CS_OFFL_SR_LRM_18_2021021370370360_200010370360_0001 CS_OFFL_SR_LRM_18_20210213703714_2000103703700000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20210213T000016_20210213T000105_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LIM_18_20102137013249_20102137013742_0001 CS_OFFL_SIR_LIM_18_20102137013742_20101 CS_OFFL_SIR_LIM_18_20102137013705500_2001013705500_001 CS_OFFL_SIR_LIM_18_20102137032245_20102137033320_0001 CS_OFFL_SIR_LIM_18_20102137033733_20102137033330_0001 CS_OFFL_SIR_LIM_18_2010213703373373_20102137033332_0001 CS_OFFL_SIR_LIM_18_20102137033333_20102137033332_0001 CS_OFFL_SIR_LIM_18_20102137033334_20102137033332_0001 CS_OFFL_SIR_LIM_18_20102137033334_20102137033332_0001 CS_OFFL_SIR_LIM_18_2010213703334_20102137033342_0001 CS_OFFL_SIR_LIM_18_20102137033343_0001 CS_OFFL_SIR_LIM_18_2010213703334_20102137033344_0001 CS_OFFL_SIR_LIM_18_2010213703334_0001 CS_OFFL_SIR_LIM_18_20102137033434_0001 CS_OFFL_SIR_LIM_18_2010213703344_0001 CS_OFFL_SIR_LIM_18_2010213703344_0001 CS_OFFL_SIR_LIM_18_2010213703344_0001 CS_OFFL_SIR_LIM_18_2010213703344_0001 CS_OFFL_SIR_LIM_18_20102137034500_0001 CS_OFFL_SIR_LIM_18_2010213703704_0001 CS_OFFL_SIR_LI	CS_OFFL_SIR_LRM_1B_20210213T000118_20210213T000339_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LRN_18_202102137013894_202102137013895_0001 CS_OFF_SR_LRN_18_202102137013894_20210213705895_0001 CS_OFF_SR_LRN_18_20210213703379_20210213703382_0001 CS_OFF_SR_LRN_18_20210213703379_20210213703382_0001 CS_OFF_SR_LRN_18_20210213703379_20210213703382_0001 CS_OFF_SR_LRN_18_20210213703379_20210213703382_0001 CS_OFF_SR_LRN_18_20210213703384_20210213703382_0001 CS_OFF_SR_LRN_18_202102137038680_202102137033880_0001 CS_OFF_SR_LRN_18_202102137036860_202102137038880_0001 CS_OFF_SR_LRN_18_202102137036860_202102137036880_0001 CS_OFF_SR_LRN_18_202102137036860_202102137036880_0001 CS_OFF_SR_LRN_18_202102137036860_202102137036880_0001 CS_OFF_SR_LRN_18_202102137036860_202102137036840_0001 CS_OFF_SR_LRN_18_202102137036860_202102137036840_0001 CS_OFF_SR_LRN_18_202102137036860_202102137036840_0001 CS_OFF_SR_LRN_18_202102137036872_202102137051440_0001 CS_OFF_SR_LRN_18_202102137036872_202102137051440_0001 CS_OFF_SR_LRN_18_202102137036742_202102137051440_0001 CS_OFF_SR_LRN_18_202102137036742_202102137051440_0001 CS_OFF_SR_LRN_18_2021021370376442_200010237050500_0001 CS_OFF_SR_LRN_18_2021021370376442_200010237050500_0001 CS_OFF_SR_LRN_18_2021021370370500_200001 CS_OFF_SR_LRN_18_2021021370370500_2000001 CS_OFF_SR_LRN_18_2021021370370500_2000001 CS_OFF_SR_LRN_18_2021021370370500_2000001 CS_OFF_SR_LRN_18_2021021370370500_200000	CS_OFFL_SIR_LRM_1B_20210213T000648_20210213T000654_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210213T02248_20210213T02349_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T02249_20210213T023492_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023492_20210213T023492_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023393_20210213T023392_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023393_20210213T023392_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023393_20210213T023392_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023393_20210213T023392_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023393_20210213T023393_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023394_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023394_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T023394_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033940_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033940_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033940_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T031947_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051747_D0010 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051747_D001022010213T0517574_D0010 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051750547_D00101	CS_OFFL_SIR_LRM_1B_20210213T013249_20210213T013742_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210213702245_20210213703380_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137033392_20210213703380_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137033392_202102137033892_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137033892_202102137033892_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137033892_202102137033891_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137033892_202102137033891_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213703392_20210213703397_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213703391_20210213703397_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213703391_202102137033992_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137033910_202102137038910_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137033910_20210213704492_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213705491_20210213704490_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137054702_202102137054700_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_202102137054702_202102137054700_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213705472_202102137054700_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213705472_20210213705474_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210213705474_20210213705474_D001 Loss	CS_OFFL_SIR_LRM_1B_20210213T013814_20210213T013955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LEM_18_2010213T032424_0210213T033842_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_2010213T033384_2010213T033852_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_2010213T033384_2010213T033885_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_2010213T033843_2010213T033885_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_2010213T033843_2010213T033897_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T033847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T033847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T033847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T033847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T033847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T033847_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T04213_D0010213T04452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T04213_D0010213T04506_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T051647_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T051714_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T051712_20210213T051716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T052042_20210213T05217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210213T052042_20210213T052350_D001 Loss of echo The tracking e	CS_OFFL_SIR_LRM_1B_20210213T015906_20210213T015929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20/20/213T033842_20/20/213T033842_0001	CS_OFFL_SIR_LRM_1B_20210213T022245_20210213T023508_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210213T033842_20210213T033842_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033842_20210213T033895_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033842_20210213T033897_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033892_20210213T033897_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033894_20210213T033897_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033894_20210213T033894_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033894_20210213T033894_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T033894_20010213T04432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T043212_20210213T044509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T045142_20210213T0514409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051642_20210213T051440_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051712_20210213T051740_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051712_20210213T051740_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051742_20210213T051740_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051742_20210213T052400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052142_20210213T052340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052442_20210213T052370_D001 Loss of echo The trac	CS_OFFL_SIR_LRM_1B_20210213T024248_20210213T024645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T033844_20210213T033891_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T033892_2010213T033897_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T033892_2010213T033897_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T033892_20210213T0338937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T035890_20210213T038890_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T035890_20210213T038890_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T035890_20210213T035890_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T036492_20210213T054680_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051647_20210213T05164B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T05167502_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051702_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T05172_20210213T051740_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T05172_20210213T051740_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T05172_20210213T052040_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052120_20210213T052300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062240_20210213T062310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T06244_20210213T063280_D001 Loss of	CS_OFFL_SIR_LRM_1B_20210213T033739_20210213T033832_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210213T033857_20210213T033911_D001	CS_OFFL_SIR_LRM_1B_20210213T033834_20210213T033842_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210213T033913_20210213T033927_D001	CS_OFFL_SIR_LRM_1B_20210213T033844_20210213T033855_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T033929_20210213T033937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T033941_20210213T033947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T033981_20210213T041332_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T043213_20210213T044599_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0543213_20210213T064459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051647_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051702_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051703_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051713_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051732_20210213T051735_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0520502_20210213T052042_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0520502_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0520502_2010213T052137_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053031_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061458_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061458_D001 Loss of echo The tracking echo is missing for one o	CS_OFFL_SIR_LRM_1B_20210213T033857_20210213T033911_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T033941_20210213T033947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T035801_20210213T035808_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T035301_20210213T04432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T043213_20210213T051409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051647_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0516952_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T05173_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T05173_20210213T051730_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T05173_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_2010213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052099_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052099_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053800_20210213T055350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063440_20210213T063438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T064145_D001 Loss of echo The tracking echo is missing	CS_OFFL_SIR_LRM_1B_20210213T033913_20210213T033927_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210213T035680_20210213T035800_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T035810_20210213T041432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T051647_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T051647_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T051652_20210213T051700_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T05173_20210213T05174_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T05173_20210213T05174_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T051743_20210213T051736_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T051743_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T052042_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T052059_20210213T052170_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T052129_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T051212_2021213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T051212_2021213T051414_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T061440_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T06140_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210213T06140_20210213T061458_D001 Loss of echo The tracking echo is missing for	CS_OFFL_SIR_LRM_1B_20210213T033929_20210213T033937_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210213T043213_20210213T044509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T043213_20210213T0451648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051647_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051702_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051713_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051713_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051714_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051714_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051714_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052042_2010213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052052_20210213T052217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052124_2010113T052371_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052442_2010213T052370_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T053450_2010213T053550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T051218_20210213T051758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T061440_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T062635_20210213T06275	CS_OFFL_SIR_LRM_1B_20210213T033941_20210213T033947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T043213_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051647_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051702_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051713_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051714_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051714_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051743_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052066_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052842_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T053350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0561248_200101213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T066235_20210213T062190_D001 Loss of echo The t	CS_OFFL_SIR_LRM_1B_20210213T035650_20210213T035808_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T051647_20210213T051648_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051702_02210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051702_0210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051714_20210213T051734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051744_20210213T051736_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051743_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T05205217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052052_20210213T05205217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052344_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053850_0210213T05350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061759_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T068230_20210213T065430_D001 Loss	CS_OFFL_SIR_LRM_1B_20210213T035810_20210213T041432_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T051652_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051702_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051724_20210213T051736_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051743_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0522129_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T056350_20210213T0561340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061434_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061457_20210213T061434_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T061436_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062190_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T063128_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063430_20210213T063439_D001 Loss of echo The tracking echo is missing for one or more records CS	CS_OFFL_SIR_LRM_1B_20210213T043213_20210213T044509_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T051702_20210213T051704_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051713_20210213T051736_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051743_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052129_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T0561385_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061404_02210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061404_02210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T061558_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061601_20210213T06290_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T066335_20210213T063298_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065337_02210213T063298_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065337_02210213T070025_D001 Loss of echo The trac	CS_OFFL_SIR_LRM_1B_20210213T051647_20210213T051648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T051713_20210213T051714_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T051724_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052052_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052129_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070025_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 m	CS_OFFL_SIR_LRM_1B_20210213T051652_20210213T051700_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210213T051724_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052042_20210213T052056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052059_20210213T0520127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052059_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052129_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T052644_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T053850_20210213T055350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T061440_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T062835_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T063430_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T065430_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210213T070028_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The trac	CS_OFFL_SIR_LRM_1B_20210213T051702_20210213T051704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052129_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T055350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063850_20210213T063438_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more recor	CS_OFFL_SIR_LRM_1B_20210213T051713_20210213T051714_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T05205e_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063850_20210213T053530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061457_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_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_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062109_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_20210213T063928_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 o	CS_OFFL_SIR_LRM_1B_20210213T051724_20210213T051736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052127_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T055350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_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	CS_OFFL_SIR_LRM_1B_20210213T051743_20210213T052040_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T052129_20210213T052317_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T055350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T070025_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_20210213T070028_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210213T052042_20210213T052056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053710_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T0633850_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_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_20210213T070028_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210213T052059_20210213T052127_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T055350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_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_SIR_LRM_1B_20210213T070028_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210213T052129_20210213T052317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_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_20210213T070028_20210213T070124_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_SIR_LRM_1B_20210213T070028_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210213T052644_20210213T053710_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_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_20210213T070028_20210213T070124_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_20210213T070126_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210213T053850_20210213T055350_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T061757_20210213T061758_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210213T061218_20210213T061438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_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	CS_OFFL_SIR_LRM_1B_20210213T061440_20210213T061454_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T062635_20210213T062751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_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_20210213T061757_20210213T061758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T063226_20210213T063928_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070126_20210213T070146_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210213T061801_20210213T062109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T065430_20210213T065439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T065537_20210213T070025_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210213T070028_20210213T070124_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_SIR_LRM_1B_20210213T062635_20210213T062751_D001	Loss of echo	The tracking echo is missing for one or more records
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Company Comp	CS_OFFL_SIR_LRM_1B_20210213T070216_20210213T070246_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210213T181539_20210213T181539_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T181545_20210213T182106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T183615_20210213T183920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T184448_20210213T185104_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T185106_20210213T185110_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T185112_20210213T190857_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T194514_20210213T194616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T195228_20210213T195237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T195240_20210213T195242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T195244_20210213T195600_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T201326_20210213T202143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T202145_20210213T202147_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T202149_20210213T202232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T202234_20210213T204814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T210051_20210213T213450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T213450_20210213T213659_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T224010_20210213T225934_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T225936_20210213T230004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T230006_20210213T230446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T230448_20210213T230557_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T230600_20210213T230645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T230823_20210213T230935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T231113_20210213T231213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T231307_20210213T231433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210213T231646_20210213T231725_D001	Loss of echo	The tracking echo is missing for one or more records
	1	

4.5 L1B Calibration Usage Check

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

Number of products with errors:

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_20210213T162013_20210213T163056_D001	IECDO 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:

65

Number of products with errors: 65		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210213T000118_20210213T000339_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_220210213T002307_20210213T005715_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_220210213T010920_20210213T012927_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_220210213T013249_20210213T013742_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_220210213T013814_20210213T013955_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_220210213T020110_20210213T022137_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_220210213T022245_20210213T023508_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_220210213T024841_20210213T031748_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_220210213T034431_20210213T035209_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_220210213T035650_20210213T035808_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_220210213T035810_20210213T041432_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_220210213T043213_20210213T044509_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_220210213T044724_20210213T045910_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_220210213T051652_20210213T051700_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210213T052129_20210213T052317_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210213T052644_20210213T053710_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_220210213T053850_20210213T055350_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_220210213T061801_20210213T062109_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_220210213T063226_20210213T063928_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_220210213T070028_20210213T070124_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210213T070248_20210213T070429_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210213T070744_20210213T071324_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_220210213T071415_20210213T073255_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_220210213T074605_20210213T081149_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_220210213T083535_20210213T083641_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_220210213T084651_20210213T091235_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_220210213T092514_20210213T095827_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_220210213T103000_20210213T104342_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_220210213T110420_20210213T113919_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_220210213T115243_20210213T115333_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_220210213T122239_20210213T123148_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_220210213T124409_20210213T130656_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_220210213T130942_20210213T131907_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_220210213T133151_20210213T133516_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_220210213T133853_20210213T133947_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_220210213T134035_20210213T134201_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_220210213T135101_20210213T135547_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_220210213T135735_20210213T141056_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_220210213T142345_20210213T145103_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_220210213T145242_20210213T145552_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_220210213T151303_20210213T151317_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_220210213T151404_20210213T152056_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_220210213T152110_20210213T154522_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_220210213T160928_20210213T162006_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_220210213T162013_20210213T163056_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_220210213T165812_20210213T170915_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_220210213T171616_20210213T172805_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_220210213T174240_20210213T175745_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_220210213T175925_20210213T180535_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_220210213T183331_20210213T183453_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220210213T183615_20210213T183920_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_220210213T183937_20210213T184325_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_220210213T184448_20210213T185104_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_220210213T185112_20210213T190857_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_220210213T192224_20210213T194444_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_220210213T195740_20210213T195840_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_220210213T202234_20210213T204814_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_220210213T210051_20210213T213450_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_220210213T215926_20210213T222738_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_220210213T224010_20210213T225934_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_220210213T230448_20210213T230557_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_220210213T230600_20210213T230645_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_220210213T230823_20210213T230935_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210213T231753_20210213T231837_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_220210213T233120_20210214T000624_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	200	200	200	0	0
SIR_SAR_1B	124	124	124	0	0
SIR_SIN_1B	102	102	102	0	0
SIR_LRM_2	200	200	193	7	0
SIR_SAR_2	102	124	124	0	0
SIR_SIN_2	124	102	101	1	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

14

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

Test Description Key:	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)	
STRUCTURESIZEANDFSTRUCTURE_SIZE_AND_READ		Under investigation.	

6.2 QCC Warnings

Number of QCC reports with warnings

9

	occurrences	of ea	ch warning

Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	•	-	-	
SIR_LRM_2_	0	6	1	1				
SIR_SIN_2_	1	0	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:

0