

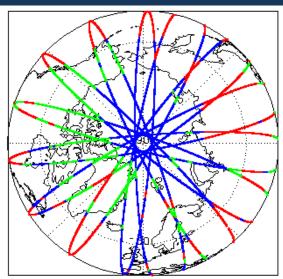
# 1. Overview

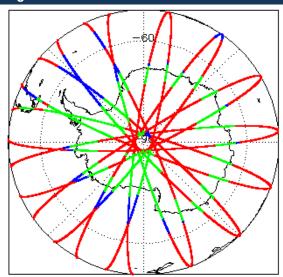
Report Production Date:	20-Apr-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

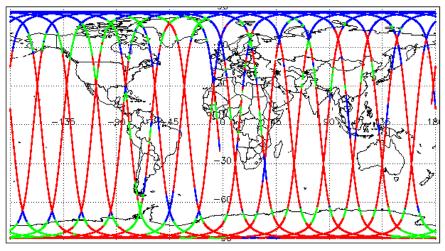
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

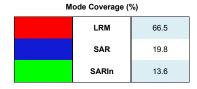
Mission / Instrument News			
19-Mar-2021	None		
20-Mar-2021	None		
21-Mar-2021	Nothing planned		

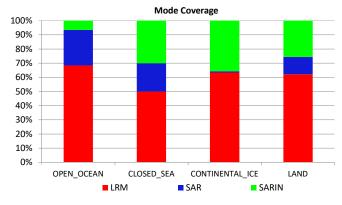
# 2. Global Coverage

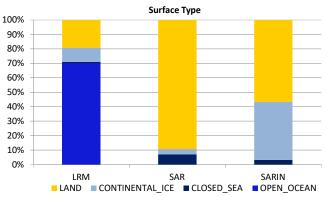












## 3. Instrument Configuration

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: 1

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210320T000942_20210320T001407_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T003604_20210320T003718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T003721_20210320T003722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T003725_20210320T003725_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T003844_20210320T011221_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T021436_20210320T021452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T021454_20210320T021457_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T021500_20210320T021531_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T021534_20210320T021623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T021626_20210320T021702_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T022146_20210320T022910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T023352_20210320T023438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T023446_20210320T023452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T023454_20210320T025139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T030828_20210320T032210_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T033744_20210320T033831_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T035319_20210320T035630_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T035633_20210320T035634_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T035638_20210320T035748_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T035751_20210320T035840_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T035843_20210320T040122_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T040352_20210320T041234_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T041237_20210320T041412_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T045020_20210320T045951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T050304_20210320T050802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T051046_20210320T051738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T052042_20210320T052049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053141_20210320T053547_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053549_20210320T053704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053706_20210320T053708_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053710_20210320T053737_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053739_20210320T053807_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053809_20210320T053919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053922_20210320T053930_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053935_20210320T053949_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T053952_20210320T054004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T054028_20210320T054115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T062259_20210320T065051_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T065054_20210320T065104_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T065107_20210320T065158_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T065427_20210320T065442_D001	Loss of echo	The tracking echo is missing for one or more records

Company   Comp	CS_OFFL_SIR_LRM_1B_20210320T065444_20210320T065641_D001	Loss of echo	The tracking echo is missing for one or more records
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Dec.   Comp. 19.1   Line   Line   Comp. 200   Line   Line   Comp. 200   Line   Line   Line   Comp. 200   Line			·
Compared to the Compared of			
Company   Comp			·
Co., Comp.   Co., Co., Co., Co., Co., Co., Co., Co.,			
Company   Comp			
Co. P. 15, 12-16, 11   2011/2007/2007/2007/2007/2007/2007/2007/			
Del Compt. Bill. 1904. Pt. 2000000000000000000000000000000000000			·
Co. CHE, SEL, LIM, 11, 2001000710071071, 201100071000000000000000000000000000000			
to, CEFE, SEL, LAM, 18, 200120201001011 (20102020101044). Doct of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 2001202010101020, 2010200101044, Doct of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 200120201010020, Doct of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 200120201010020, Doct of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 2001202010010020, DOCT of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 2001202010010030, DOCT of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 2001201001001030, DOCT of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 2001201001001030, DOCT of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 200120100101030, DOCT of cells in the braiding cells a minary force or more mode.  CO. OFFL, SEL, LAM, 18, 200120101011030, DOCT of cells in the braiding cells in minary force or more mode.  CO. OFFL, SEL, LAM, 18, 20012010111011030, DOCT of cells in the braiding cells in minary force or more mode.  CO. OFFL, SEL, LAM, 18, 200120101110110101010101010101010101010			·
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Co. OFT.   SR.   LAM. 19. 2012/000109441 _ 2012/000110052, 2			
Co., OPT_BRI_MAI_B_2010000000000000000000000000000000000			
Co. CFT.   SR.   LAM   18 200000000000000000000000000000000000			
CS_OFT_ER_LIM_18_20000001190783_2000000110085_0001  CS_OFT_ER_LIM_18_20000001110080_20010000110085_0001  CS_OFT_ER_LIM_18_20000001110080_20010000110080000000000			
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GB_CPFL_SR_LIN_B_Z01200201115709_Z012000111509_D011  CB_CPFL_SR_LIN_B_Z01200201115709_Z012000111509_D011  CB_CPFL_SR_LIN_B_Z01200201120020120000111509_D011  CB_CPFL_SR_LIN_B_Z01200201120001200001120000000000000000			
CS_OFF_LSR_LEM_R_18_20210320711976_20210307119518_0001			·
CS_OFFL_SIR_LEM_IR_20100007120726_0010100712358_00101 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_20100007120726_0010100712358_00101 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_20100007120726_001000712358_00101 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_20100007120726_001000712358_00101 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710355_0010000712358_00101 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710355_0010000713586_0010 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710355_0010000713586_0010 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000713586_0010 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000713586_0010 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000713586_0010 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000714586_0010 Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000714587_0010  Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000714587_0010  Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000714587_0010  Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000714587_0010  Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000714586_0010  CS_OFFL_SIR_LEM_IR_2010000710356_001000071556_0010001  Lose of exho The backing exho is missing for one or more records  CS_OFFL_SIR_LEM_IR_2010000710356_0010000000000000000000000000000000000			
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CS_OFFL_SR_LRM_18_20210320T153553_20210320T153557_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T153651_20210320T153654_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T153651_20210320T153654_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T153651_20210320T153654_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T15365_20210320T15355_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T15358_20210320T15355_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T15358_20210320T15355_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T15358_20210320T15355_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T15458_20210320T154587_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T15458_20210320T154580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T154582_20210320T154580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T154580_20210320T154580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T154580_20210320T154580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T154580_20210320T154580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T154580_20210320T154580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T164542_20210320T164543_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210320T164542_20210320T164543_D001  Loss of echo The tracking echo i			
CS_OFFL_SIR_LNM_1B_202103207138691_20210320713868_D001  CS_OFFL_SIR_LNM_1B_20210320713868_20210320713869_D001  CS_OFFL_SIR_LNM_1B_20210320713868_202103320713869_D001  CS_OFFL_SIR_LNM_1B_202103207143696_202103207143859_D001  CS_OFFL_SIR_LNM_1B_202103207143969_202103207143939_D001  CS_OFFL_SIR_LNM_1B_202103207143938_202103207143939_D001  CS_OFFL_SIR_LNM_1B_202103207143938_202103207143939_D001  CS_OFFL_SIR_LNM_1B_202103207143938_202103207143939_D001  CS_OFFL_SIR_LNM_1B_202103207144988_202103207143939_D001  CS_OFFL_SIR_LNM_1B_202103207144988_202103207143949_D001  CS_OFFL_SIR_LNM_1B_20210320714498_20210320715394_D001  CS_OFFL_SIR_LNM_1B_202103207151902_0210320715394_D001  CS_OFFL_SIR_LNM_1B_202103207151902_0210320715394_D001  CS_OFFL_SIR_LNM_1B_202103207151902_02103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151902_0210320715394_D001  CS_OFFL_SIR_LNM_1B_202103207151902_02103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151902_02103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151902_02103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151902_02103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151900_020103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151900_020103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151900_020103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151900_020103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151900_020103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151900_020103207151934_D001  CS_OFFL_SIR_LNM_1B_202103207151900_0201032071519449_D001  CS_OFFL_SIR_LNM_1B_202103207151900_0201032071519000  CS_OFFL_SIR_LNM_1B_20210320715900_0201032071519000  CS_OFFL_SIR_LNM_1B_20210320715900_0201032071519000  CS_OFFL_SIR_LNM_1B_20210320715900_0201032071519000  CS_OFFL_SIR_LNM_1B_202103207161900_02010320716490000  CS_OFFL_SIR_LNM_1B_202103207164900_0000000000000000000000000000000000			
CS_OFFL_SIR_LRM_18_20210320T13648_20210320T13649_0001  CS_OFFL_SIR_LRM_18_20210320T140552_2010320T140545_0001  CS_OFFL_SIR_LRM_18_20210320T14057_20210320T142245_0001  CS_OFFL_SIR_LRM_18_20210320T14057_20210320T142245_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T140585_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T140585_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T140585_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20210320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20010320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T14058_20010320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T1400_20010320T14058_0001  CS_OFFL_SIR_LRM_18_20210320T1400_20010320T14000_0001  CS_OFFL_SIR_LRM_18_20210320T14000_20010320T14000_0001  CS_OFFL_SIR_LRM_18_20210320T14000_20010320T14000_0001  CS_OFFL_SIR_LRM_18_20210320T14000_20010320T1400000000000000000000000000000000000			·
CS_OFFL_SR_LRM_18_20210320T133651_20210320T133654_D001			
CS_OFFL_SR_LRM_1B_20210320T143958_20210320T14325B_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T14358_20210320T14325B_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T14358_20210320T14369T_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T144058_20210320T15496T_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T144058_20210320T159000_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T151308_20210320T15308_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T151058_20210320T151308_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T151058_20210320T151308_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T15100_20210320T151080_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T151508_20210320T155100_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T155050_20210320T155100_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T155050_20210320T155051_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T155050_20210320T155051_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T164552_20210320T164552_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T164552_20210320T164552_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T164552_20210320T164552_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210320T164552_20210320T164503_D001  Loss of echo The tracking			
CS_OFF_SIR_LRM_IB_20210320T140957_20210320T142245_D001		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210320T143158_20210320T143355_D001			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210320T144028_20210320T144058_0001  CS_OFFL_SIR_LRM_18_20210320T144028_20210320T150060_0001  Loss of exho		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210320T144622_20210320T145861_D001			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210320T145821_20210320T15138_B001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T151308_B001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T15100_20210320T15101_B001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T15500_20210320T15505_B001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T15500_20210320T155160_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T155002_20210320T155160_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T1501028_20210320T15516_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T161028_20210320T1561316_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T164535_20210320T164453_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T164535_20210320T164552_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T164535_20210320T164552_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T164542_20210320T164552_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165052_20210320T164500_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T16505_20210320T16500_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T16505_20210320T16500_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T16505_20210320T16500_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T16505_20210320T16500_D001 Loss of echo The tracking echo is missing for one o		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210320T15136_20210320T151304_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T151306_20210320T151801_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T153002_0210320T155180_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T1553002_0210320T155180_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T155140_20210320T15518_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T161028_20210320T161518_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T161028_20210320T164535_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T164453_20010320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T16452_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T16452_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T16455_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T1640242_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165002_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165003_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165003_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T176005_20210320T1765001_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T176002_2010320T1760001			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210320T151306_20210320T159136_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T155106_D0210320T155106_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T155106_D20210320T155106_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T155106_D20210320T155106_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T161026_20210320T165505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T161026_20210320T16435_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T164355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T164355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T164355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T164552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T164900_20210320T164905_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T165002_20210320T165003_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T165002_20210320T16503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T165107_20210320T165103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T165107_20210320T165100_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T17402_D010320T17600_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T175902_20210320T17600_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210320T176902_20210	CS_OFFL_SIR_LRM_1B_20210320T145821_20210320T150806_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T151400_20210320T151800_D001  Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T15520D_20210320T15585D_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T15520D_20210320T15585D_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T161026_20210320T16510D_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T161026_20210320T16130D_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T164352_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T164542_D010320T164552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T164552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T164552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T165002_D010320T165003_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T165002_D010320T165103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T165107_2010320T165103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T172149_D010320T176410_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T172149_D010320T176400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T17249_D010320T176400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T17249_D010320T176400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T176902_D010320T176400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210320T18			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T155026_20210320T15516_0001	CS_OFFL_SIR_LRM_1B_20210320T151306_20210320T151358_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T155026_20210320T15516_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165026_20210320T161316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T16402_20210320T164532_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T164542_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T164540_20210320T164550_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165002_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165002_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165005_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T1765107_2010320T1765107_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T177302_20210320T177904_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T177302_20210320T177500_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T177909_20210320T17800_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T17809_20210320T182316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T184813_20210320T184900_D001  Loss of echo  The tracki	CS_OFFL_SIR_LRM_1B_20210320T151400_20210320T151801_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T16126_20210320T16455_D0101	CS_OFFL_SIR_LRM_1B_20210320T153500_20210320T154659_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210320T161026_20210320T164453_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T164552_D00101  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T164940_20210320T164959_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T165002_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T165002_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T165005_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T165005_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T165143_20210320T165761_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T171322_20210320T17904_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T17449_20210320T175703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T175909_20210320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T182489_20210320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T184813_20210320T18400_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T184813_20210320T184800_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210320T185482_D01320T185425_D001  Loss of echo  The tracking echo is missi	CS_OFFL_SIR_LRM_1B_20210320T155026_20210320T155116_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T164333_20210320T16455_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T164955_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165002_20210320T164959_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165002_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165005_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T1765142_20210320T16575_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T171322_20210320T176575_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T171402_D0101  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T174402_D010320T176010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T17449_20210320T174610_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T178492_20210320T18248_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T178492_20210320T182901_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T18493_D010320T184900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T18493_20210320T184900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T18503_20210320T19515_D001  Loss of echo  The tracking echo is missing for one	CS_OFFL_SIR_LRM_1B_20210320T155140_20210320T155851_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T164542_20210320T164552_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T164940_20210320T164959_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165002_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165005_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165005_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165134_20210320T165514_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T1765134_20210320T176571_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T177322_20210320T17904_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T174229_20210320T175703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T174229_20210320T175703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T178249_20210320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T18243_20010320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T182431_20010320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T182431_20010320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T182431_20010320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T182432_D010320T1824	CS_OFFL_SIR_LRM_1B_20210320T161026_20210320T161316_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210320T164955_20210320T164959_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T166902_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165005_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165107_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165107_20210320T165124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T165143_20210320T165751_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T171322_20210320T171904_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T172149_20210320T174610_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T172149_20210320T175703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T174829_20210320T175703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T175909_20210320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T182845_20210320T182901_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T184813_20210320T185425_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T185623_20210320T185425_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210320T185623_20210320T192515_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 track	CS_OFFL_SIR_LRM_1B_20210320T164335_20210320T164453_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T164940_20210320T164959_D001  CS_OFFL_SIR_LRM_1B_20210320T165002_20210320T165003_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165005_20210320T165103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165143_20210320T165751_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T171322_20210320T171904_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T172149_20210320T17480_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T172149_20210320T17480_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T17249_20210320T175703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T17829_20210320T18244B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T182845_20210320T182901_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T1884813_20210320T18490_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T185023_20210320T185425_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T185623_20210320T192515_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T193802_20210320T200536_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T200541_20210320T200636_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 tracki	CS_OFFL_SIR_LRM_1B_20210320T164542_20210320T164552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T165002_20210320T165003_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165124_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165124_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T175132_20210320T17590_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_20210320T171322_20210320T171904_D001 Loss of echo The tracking echo is missing for one or more records  The tracking echo is missin		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165103_D001  CS_OFFL_SIR_LRM_1B_20210320T165107_20210320T165124_D001  CS_OFFL_SIR_LRM_1B_20210320T165143_20210320T165751_D001  CS_OFFL_SIR_LRM_1B_20210320T17322_20210320T17904_D001  CS_OFFL_SIR_LRM_1B_20210320T17322_20210320T17904_D001  CS_OFFL_SIR_LRM_1B_20210320T172149_20210320T174610_D001  CS_OFFL_SIR_LRM_1B_20210320T172149_20210320T175703_D001  CS_OFFL_SIR_LRM_1B_20210320T174829_20210320T175703_D001  CS_OFFL_SIR_LRM_1B_20210320T175909_20210320T182448_D001  CS_OFFL_SIR_LRM_1B_20210320T175909_20210320T182448_D001  CS_OFFL_SIR_LRM_1B_20210320T182449_20010320T182901_D001  CS_OFFL_SIR_LRM_1B_20210320T182949_20210320T183316_D001  CS_OFFL_SIR_LRM_1B_20210320T182949_20210320T183316_D001  CS_OFFL_SIR_LRM_1B_20210320T182949_20210320T185425_D001  CS_OFFL_SIR_LRM_1B_20210320T185023_20210320T185425_D001  CS_OFFL_SIR_LRM_1B_20210320T185023_20210320T185425_D001  CS_OFFL_SIR_LRM_1B_20210320T185023_20210320T195515_D001  CS_OFFL_SIR_LRM_1B_20210320T185023_20210320T195515_D001  CS_OFFL_SIR_LRM_1B_20210320T19302_2010320T195515_D001  CS_OFFL_SIR_LRM_1B_20210320T19302_2010320T200536_D001  CS_OFFL_SIR_LRM_1B_20210320T200541_20210320T200824_D001  CS_OFFL_SIR_LRM_1B_20210320T200541_20210320T200824_D001  CS_OFFL_SIR_LRM_1B_20210320T200541_20210320T200824_D001  CS_OFFL_SIR_LRM_1B_20210320T200900_20210320T1011T_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	CS_OFFL_SIR_LRM_1B_20210320T164940_20210320T164959_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210320T182448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T18245_20210320T182901_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T182949_20210320T183316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T184813_20210320T184900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T185023_20210320T185425_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T185623_20210320T192515_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T193802_20210320T200536_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T193802_20210320T200824_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_20210320T200541_20210320T200824_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_20210320T200900_20210320T201117_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210320T172149_20210320T174610_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T182845_20210320T182901_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T182949_20210320T183316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T184813_20210320T184900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T185023_20210320T185425_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T185623_20210320T192515_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T193802_20210320T200536_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210320T200541_20210320T200824_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_20210320T200541_20210320T200824_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_20210320T200900_20210320T201117_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210320T174829_20210320T175703_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20210320T201117_20210320T201332_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210320T212833_20210320T213257_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T213605_20210320T213621_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T213800_20210320T214341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T214736_20210320T214904_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T220841_20210320T224338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T231754_20210320T232433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T232600_20210320T232608_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210320T232614_20210320T232753_D001	Loss of echo	The tracking echo is missing for one or more records

#### 4.5 L1B Calibration Usage Check

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

Number of products with errors:

#### 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:

0

### 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:

### 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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210320T000136_20210320T000617_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_220210320T000942_20210320T001407_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_220210320T003844_20210320T011221_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

	Height Error (Retracker 2), Height Error	L
CS_OFFL_SIR_LRM_220210320T013031_20210320T020140_D001	(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_220210320T022146_20210320T022910_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_220210320T023352_20210320T023438_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_220210320T023454_20210320T025139_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_220210320T030828_20210320T032210_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_220210320T032507_20210320T033556_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_220210320T033744_20210320T033831_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_220210320T040352_20210320T041234_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_220210320T041237_20210320T041412_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_220210320T041552_20210320T043046_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_220210320T044617_20210320T044744_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_220210320T045020_20210320T045951_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_220210320T050304_20210320T050802_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_220210320T054651_20210320T060959_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_220210320T062259_20210320T065051_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_220210320T072333_20210320T074921_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_220210320T080221_20210320T083630_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_220210320T090012_20210320T090704_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_220210320T090713_20210320T091804_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_220210320T094141_20210320T101544_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_220210320T102933_20210320T103027_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_220210320T103814_20210320T103821_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_220210320T105146_20210320T105336_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_220210320T112102_20210320T114354_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210320T121727_20210320T121859_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_220210320T122635_20210320T124802_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_220210320T130131_20210320T133150_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_220210320T133658_20210320T133815_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

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CS_OFFL_SIR_LRM_220210320T135032_20210320T140941_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_220210320T140957_20210320T142245_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_220210320T144026_20210320T145617_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_220210320T145821_20210320T150806_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_220210320T153500_20210320T154659_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_220210320T161946_20210320T163446_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_220210320T163626_20210320T163646_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_220210320T164555_20210320T164937_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210320T172149_20210320T174610_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_220210320T175909_20210320T182448_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_220210320T183439_20210320T183457_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_220210320T185623_20210320T192515_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_220210320T193802_20210320T200536_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_220210320T203128_20210320T210424_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_220210320T211659_20210320T212323_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_220210320T213800_20210320T214341_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_220210320T215444_20210320T215532_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_220210320T220841_20210320T224338_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_220210320T225555_20210320T231526_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_220210320T231754_20210320T232433_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_220210320T234755_20210321T001559_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	177	177	177	0	0
SIR_SAR_1B	118	118	118	0	0
SIR_SIN_1B	110	110	110	0	0
SIR_LRM_2	177	177	172	5	0
SIR_SAR_2	110	118	118	0	0
SIR_SIN_2	118	110	108	2	0
SIR_GDR_2	15	15	0	0	15

## 6.1 QCC Errors

Number of products with QCC errors:

18

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	•	•	•
SIR_GDR_2_	15	15	15	15	15	15	15	15			

Test Description Key:		
Abbreviation	Test name	Details

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

# 6.2 QCC Warnings

## Number of QCC reports with warnings

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	•	-	-	-	-
SIR_LRM_2_	0	5					
SIR_SIN_2_	2	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				

# 6.2 Missing QCC Reports

Number of products with missing QCC reports:

0