

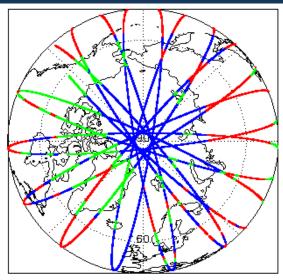
### 1. Overview

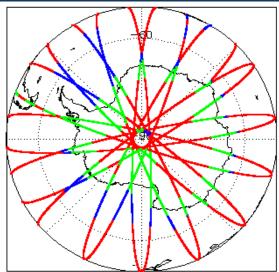
Report Production Date:	12-Feb-2021				
Processor Used:	CryoSat Ice Processor				
Data Used:	L1B and L2 OFFLINE Data				

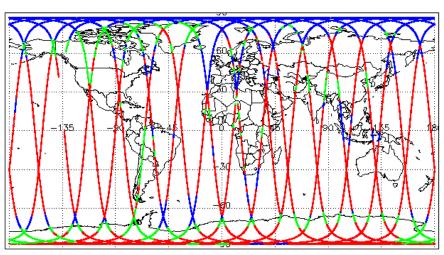
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

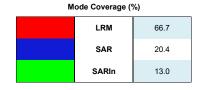
Mission / Instrument News					
13-Jan-2021	None				
14-Jan-2021	None				
15-Jan-2021	Nothing planned				

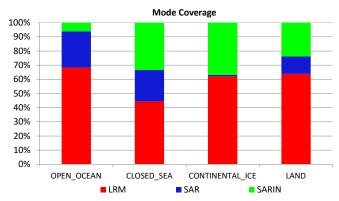
# 2. Global Coverage

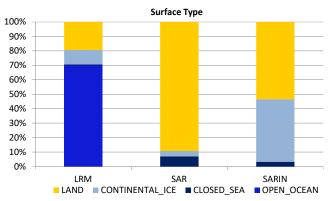












### 3. Instrument Configuration

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

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210113T235934_20210114T002132_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T002136_20210114T002718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T002735_20210114T002759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T002802_20210114T002838_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T003040_20210114T003130_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T003221_20210114T003357_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T003559_20210114T003641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T014715_20210114T014841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T014845_20210114T015527_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T015606_20210114T015851_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T020404_20210114T020537_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T020947_20210114T020956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T021007_20210114T021035_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T021035_20210114T021057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T033224_20210114T033839_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T033905_20210114T033926_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T034016_20210114T034459_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T040700_20210114T040704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T040713_20210114T040731_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T040733_20210114T040741_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T040744_20210114T040810_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T054529_20210114T054603_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T054611_20210114T054626_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T054628_20210114T054641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T054645_20210114T054648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T054651_20210114T054804_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T055126_20210114T055437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T055439_20210114T060450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T060453_20210114T060506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T060642_20210114T062225_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T063843_20210114T064853_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T064959_20210114T065234_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T065513_20210114T070617_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072412_20210114T072719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072726_20210114T072735_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072737_20210114T072743_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072745_20210114T072837_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072841_20210114T072852_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072856_20210114T072908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072911_20210114T072914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T072917_20210114T072932_D001	Loss of echo	The tracking echo is missing for one or more records

Company   Comp	CS_OFFL_SIR_LRM_1B_20210114T072934_20210114T074035_D001	Loss of echo	The tracking echo is missing for one or more records
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Dec.   Company   Dec.			·
Co. CPT   18   18   1.9, 2.9   2001011/100042 (2001111/10004			
Dec.   Company			·
Co. Comp.   Co.   Comp.   Co.   Comp.   Co.			
Company   Comp			
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Company   1, 2011   1, 2			
Compage   Comp			
Co., OPT_CR_CR_LAN_LB_2020114T10225_2020114T10225_2020114T10025_202011			
Co. CFT., SR. LEM 16 2000111710229 (201011710229) (201011710291)			
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GS_OFFL_SIR_LEM_18_2020101147122582_20201147122580_0001			
CS_OFFL_SIR_LRM_18_20010114712352_001147123528_0011			
CS_OFFL_SR_LRM_18_20210114712303_201014712303_D001			·
CS_OFFL_SR_LRM_18_202/0114728938_202/0114728938_202/0104728938_202/0114728938_202/0104728938_202/014728938_202/0104728938_202/0104728938_202/0104728938_202/0104728938_202/01472898_202/01472898_202/01472898_202/01472898_202/014728			
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CS_OFFL_SR_LRM_18_20210114T124248_0220114T1373272_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T140312_0220114T140313_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T140312_0220114T140318_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T140312_0220114T14037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T14030_020210114T14031_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T14030_020210114T14031_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T14030_020210114T14030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T15030_020210114T16030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T15034_20210114T16030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T15034_20210114T16033_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T15034_20210114T16033_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T15034_20210114T16033_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T15036_20210114T16033_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T16036_20210114T16030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T16036_20210114T16030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T16036_20210114T16030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20210114T16036_20210114T16030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_			
CS_OFFL_SIR_LRM_18_20210114T105154_20210114T105732_D001  CS_OFFL_SIR_LRM_18_20210114T14031_20210114T10573_D001  CS_OFFL_SIR_LRM_18_20210114T14032_20210114T10532_D001  CS_OFFL_SIR_LRM_18_20210114T14032_20210114T14337_D001  CS_OFFL_SIR_LRM_18_20210114T14032_20210114T14337_D001  CS_OFFL_SIR_LRM_18_20210114T14032_20210114T14337_D001  CS_OFFL_SIR_LRM_18_20210114T14032_20210114T14391_D001  CS_OFFL_SIR_LRM_18_20210114T14032_20210114T14391_D001  CS_OFFL_SIR_LRM_18_20210114T14032_20210114T14391_D001  CS_OFFL_SIR_LRM_18_20210114T16323_20210114T16393_D001  CS_OFFL_SIR_LRM_18_20210114T16323_20210114T16393_D001  CS_OFFL_SIR_LRM_18_20210114T16323_20210114T16393_D001  CS_OFFL_SIR_LRM_18_20210114T16393_20210114T16393_D001  CS_OFFL_SIR_LRM_18_20210114T170393_20210114T170393_D001  CS_OFFL_SIR_LRM_18_20210114T170393_20210114T170393_D001  CS_OFFL_SIR_LRM_18_20210114T170393_20210114T170393_D001  CS_OFFL_SIR_LRM_18_20210114T170393_20210114T170390_D001  CS_OFFL_SIR_LRM_18_20210114T170393_2			
CS_OFF_SR_LRM_18_20210114T140613_20210114T140613_20210114T140618_0001  CS_OFF_SR_LRM_18_20210114T140610_20210114T140618_0001  CS_OFF_SR_LRM_18_20210114T14030_20210114T14051_0001  CS_OFF_SR_LRM_18_20210114T14030_20210114T14051_0001  CS_OFF_SR_LRM_18_20210114T14030_20210114T14051_0001  CS_OFF_SR_LRM_18_20210114T14030_20210114T14051_0001  CS_OFF_SR_LRM_18_20210114T1620_20210114T1620_0001  CS_OFF_SR_LRM_18_20210114T1620_20210114T1620_0001  CS_OFF_SR_LRM_18_20210114T1620_20210114T1620_0001  CS_OFF_SR_LRM_18_20210114T1620_20210114T1620_0001  CS_OFF_SR_LRM_18_20210114T1620_20210114T1620_0001  CS_OFF_SR_LRM_18_20210114T1620_20210114T1620_0001  CS_OFF_SR_LRM_18_20210114T1620_20210114T1620_0001  CS_OFF_SR_LRM_18_20210114T16200_20210114T16200_0001  CS_OFF_SR_LRM_18_20210114T170000_20210114T17000_0001  CS_OFF_SR_LRM_18_20210114T170000_20210114T170000_0001			
CS_OFFL_SIR_LRM_18_20210114T140810_20210114T140810_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T141520_30220114T14133_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T141520_30220114T14133_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T145203_20210114T15234_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152345_20210114T15234_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152345_20210114T152354_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152345_20210114T152355_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152345_20210114T15235_D0101  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T15502_20210114T15535_D0101  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T15502_20210114T15535_D0101  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T15033_20210114T17034_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17072_20210114T17071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17073_20210114T17071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17073_20210114T17071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17073_20210114T17071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17073_20210114T17072_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17073_20210114T17072_D0011  Loss of ech			
CS_OFFL_SR_LRM_1B_20210114T140821_20210114T14193.  CS_OFFL_SR_LRM_1B_20210114T141203_20210114T141918_0001  CS_OFFL_SR_LRM_1B_20210114T141203_20210114T141918_0001  CS_OFFL_SR_LRM_1B_20210114T141203_20210114T141918_0001  CS_OFFL_SR_LRM_1B_20210114T141203_20210114T152034_0001  CS_OFFL_SR_LRM_1B_20210114T152034_20210114T152034_0001  CS_OFFL_SR_LRM_1B_20210114T152034_20210114T152034_0001  CS_OFFL_SR_LRM_1B_20210114T152034_20210114T152034_0001  CS_OFFL_SR_LRM_1B_20210114T152036_20210114T152030_0001  CS_OFFL_SR_LRM_1B_20210114T152036_20210114T152000_0001  CS_OFFL_SR_LRM_1B_20210114T152036_20210114T152000_0001  CS_OFFL_SR_LRM_1B_20210114T152036_20210114T152000_0001  CS_OFFL_SR_LRM_1B_20210114T152036_20210114T152000_0001  CS_OFFL_SR_LRM_1B_20210114T15000_20210114T15000_0001  CS_OFFL_SR_LRM_1B_20210114T170000_20210114T1700001  CS_OFFL_SR_LRM_1B_20210114T170000_20210114T17000001  CS_OFFL_SR_LRM_1B_20210114T170000_20210114T17000001  CS_OFFL_SR_LRM_1B_20210114T170000_20210114T17000001  CS_OFFL_SR_LRM_1B_20210114T170000001  CS_OFFL_SR_LRM_1B_20210114T1700000000000000000000000000000000			
CS_OFF_SIR_LRM_IB_20210114T141232_20210114T141337_D001  CS_OFF_SIR_LRM_IB_20210114T141520_20210114T141388_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T152342_20210114T15234_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T152342_20210114T152344_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T152342_20210114T152344_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T152342_20210114T152342_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T152342_20210114T152342_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T155107_20210114T15532_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T155407_20210114T15532_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T170542_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T17004_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T17007_20210114T17004_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T17007_20210114T17007_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T17007_20210114T17007_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T17007_20210114T17007_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T17002_20210114T17002_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T17002_20210114T17002_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SIR_LRM_IB_20210114T16403_D001014T16403_D001  L			
CS_OFFL_SIR_LRM_IB_20210114T145203_20210114T152634_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T152645_20210114T152634_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T152642_20210114T152634_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T152642_20210114T152657_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T152662_20210114T152657_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T152662_20210114T152657_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T152662_20210114T15267_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170642_20210114T170710_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170712_20210114T170712_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170712_20210114T170712_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170712_20210114T170712_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170712_20210114T170712_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170712_20210114T170712_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170712_20210114T170712_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170802_20210114T17072_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170802_20210114T170802_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T18203_D001  Loss of echo The trackin			
CS_OFFL_SIR_LRM_18_20210114T152746_2021014T152840_D001  CS_OFFL_SIR_LRM_18_20210114T152746_2021014T152840_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152746_2021014T152840_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152849_20210114T152840_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152869_20210114T152830_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T155602_20210114T156502_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T176862_20210114T16040_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T176040_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T176040_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T177071_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T177071_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T177071_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T177071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T177071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17071_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18050_20210114T18040_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18040_20210114T18			
CS_OFFL_SIR_LRM_18_20210114T152845_20210114T152840_D001			
CS_OFFL_SIR_LRM_18_20210114T152843_20210114T152845_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152852_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152852_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152852_20210114T1635532_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170682_20210114T16357_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170682_20210114T170705_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170707_20210114T170712_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170707_20210114T170717_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170707_20210114T170717_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170707_20210114T170717_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170707_20210114T170707_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170823_20210114T170820_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170823_20210114T170800_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170802_20210114T170800_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T1818205_20210114T18205_2001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T1818205_20210114T18205_2001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T1818205_20210114T18205_2001 Loss of echo The tracking echo is missing for one or			
CS_OFFL_SIR_LRM_18_20210114T152849_20210114T152852_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152852_20210114T161357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T152852_20210114T161357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170582_20210114T161357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170764_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170774_20210114T170775_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170774_20210114T170771_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170774_20210114T170771_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170774_20210114T170775_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170774_20210114T170775_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170782_20210114T170725_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17082_20210114T17082_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17082_20210114T17082_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T17082_20			
CS_OFFL_SIR_LRM_IB_20210114T152856_20210114T155932_D001  CS_OFFL_SIR_LRM_IB_20210114T15592_20210114T155932_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T176982_20210114T169582_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T176984_20210114T176945_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T176946_20210114T170702_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170702_20210114T170712_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170702_20210114T170712_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170702_20210114T17072_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170728_20210114T170728_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170702_20210114T170902_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T170902_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T174050_20210114T17420_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T174050_20210114T18044_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T180243_20210114T180302_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T184206_20210114T184207_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T184208_20210114T184207_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210114T184207_20210114T184300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_S			
CS_OFFL_SIR_LRM_18_20210114T155302_20210114T161357_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T1705623_20210114T161357_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T1707042_00114T170705_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T1707074_20210114T170705_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170714_20210114T17071001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170714_20210114T170725_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170728_20210114T170966_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T170728_20210114T170906_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T174208_20210114T174020_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T174208_20210114T174208_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18203_20210114T17620_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18203_20210114T1820_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18203_20210114T18203_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18408_20210114T18420_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18423_20210114T18423_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18423_00101 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T18430_0001 Loss of echo The tracking echo is missing for one or more records  C			
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CS_OFFL_SIR_LRM_1B_20210114T170707_20210114T170712_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T170712_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T170728_20210114T170728_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T170828_20210114T170906_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T170906_20210114T170906_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T174206_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T174206_20210114T17424_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T18020_20210114T18240_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T18203_20210114T182703_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T18127_20210114T182703_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184205_20210114T184207_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184204_20210114T184207_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184231_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184305_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184331_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184333_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184333_D001 Loss of echo The tracking echo is missing for one or more			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210114T170719_20210114T170725_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T170823_20210114T170821_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T174080_20210114T174206_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T174208_20210114T174206_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T180243_20210114T180441_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T180243_20210114T18041_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T18127_20210114T18203_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184205_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184205_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_D0210114T184305_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_D0210114T184305_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_D0011 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_D001 Loss of echo			
CS_OFFL_SIR_LRM_18_20210114T170728_20210114T170821_D001  CS_OFFL_SIR_LRM_18_20210114T170823_20210114T174206_D001  CS_OFFL_SIR_LRM_18_20210114T1740823_20210114T174206_D001  CS_OFFL_SIR_LRM_18_20210114T174208_20210114T174204_D001  CS_OFFL_SIR_LRM_18_20210114T180243_20210114T180441_D001  CS_OFFL_SIR_LRM_18_20210114T180243_20210114T180441_D001  CS_OFFL_SIR_LRM_18_20210114T180243_20210114T180442_D001  CS_OFFL_SIR_LRM_18_20210114T180243_20210114T180243_200101  CS_OFFL_SIR_LRM_18_20210114T181127_20210114T182703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T181127_20210114T182703_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184136_20210114T184207_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184136_20210114T184207_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184244_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184244_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184234_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184308_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184338_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184333_20210114T184337_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210114T184402_20210114T184401_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 recor			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T170823_20210114T170906_D001  CS_OFFL_SIR_LRM_1B_20210114T174050_20210114T174206_D001  CS_OFFL_SIR_LRM_1B_20210114T174050_20210114T17424_D001  CS_OFFL_SIR_LRM_1B_20210114T180243_20210114T180441_D001  CS_OFFL_SIR_LRM_1B_20210114T181127_20210114T180424_D001  CS_OFFL_SIR_LRM_1B_20210114T18127_20210114T183828_D001  CS_OFFL_SIR_LRM_1B_20210114T18434_20210114T184321_D001  CS_OFFL_SIR_LRM_1B_20210114T184124_20210114T18429_D001  CS_OFFL_SIR_LRM_1B_20210114T18424_20210114T18429_D001  CS_OFFL_SIR_LRM_1B_20210114T18423_20210114T18429_D001  CS_OFFL_SIR_LRM_1B_20210114T18425_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T18425_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001  CS_OFFL_SIR_LRM_1B_20210114T18433_D001014118434_D001  CS_OFFL_SIR_LRM_1B_20210114T18440_D0010140001  CS_OFFL_SIR_LRM_1B_20210114T18440_D0010140001  CS_OFFL_SIR_LRM_1B_20210114T18440_D0010140001  CS_OFFL_SIR_LRM_1B_20210114T18440_D0010140001  CS_OFFL_SIR_LRM_1B_20210114T18440_D0010140001  CS_OFFL_SIR_LRM_1B_20210114T18440_D0010140001  CS_OFFL_SIR_LRM_1B_20210114T184423_D001014T184426_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_D001014T184426_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_D001014T184			
CS_OFFL_SIR_LRM_1B_20210114T174050_20210114T174206_D001  CS_OFFL_SIR_LRM_1B_20210114T174208_20210114T175424_D001  CS_OFFL_SIR_LRM_1B_20210114T180243_20210114T180441_D001  CS_OFFL_SIR_LRM_1B_20210114T1810243_20210114T180441_D001  CS_OFFL_SIR_LRM_1B_20210114T1810243_20210114T180441_D001  CS_OFFL_SIR_LRM_1B_20210114T181127_02210114T182703_D001  CS_OFFL_SIR_LRM_1B_20210114T182905_20210114T183828_D001  CS_OFFL_SIR_LRM_1B_20210114T184136_20210114T184207_D001  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001  CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T18429_D001  CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T184300_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184300_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184300_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T1843420_D001  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184421_D001  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184421_D001  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184421_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184421_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184421_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184421_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_D0011  CS_OFFL_SIR_LRM_1B_20210114T184423_D00101  CS_OFFL_SIR_LRM_1B_20210114T184400_D0010  CS_OFFL_SIR_LRM_1B_20210114T184400_D0010  CS_OFFL_SIR_LRM_1B_20210114T184423_D0010114T184421_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_D0010114T184421_			
CS_OFFL_SIR_LRM_1B_20210114T180243_20210114T180441_D001  CS_OFFL_SIR_LRM_1B_20210114T180243_20210114T180243_20210114T180243_20210114T180243_20210114T180243_20210114T180243_20210114T180243_20210114T180243_20210114T180243_20210114T18001  CS_OFFL_SIR_LRM_1B_20210114T181127_20210114T183828_D001  CS_OFFL_SIR_LRM_1B_20210114T184136_20210114T18420_D001  CS_OFFL_SIR_LRM_1B_20210114T184136_20210114T184231_D001  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T18429_D001  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T18429_D001  CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T18430_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T18440_D001  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T18440_D001  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184440_D001  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184440_D001  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184440_D001  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184440_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184440_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184440_D001  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184420_D001  CSS 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_20210114T180243_20210114T180441_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T182905_20210114T183828_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184136_20210114T184207_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T18429_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184303_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184303_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184302_20210114T184404_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_20210114T18127_20210114T183828_D001  CS_OFFL_SIR_LRM_1B_20210114T182905_20210114T183828_D001  CS_OFFL_SIR_LRM_1B_20210114T184207_D001  CS_OFFL_SIR_LRM_1B_20210114T184207_D001  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184234_D001  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001  CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T18429_D001  CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T184301_D001  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184306_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184308_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184303_D001  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184404_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_20210114T184407_20210114T184421_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_20210114T182905_20210114T184207_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184241_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184323_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184332_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184401_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_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_20210114T184407_20210114T184421_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_20210114T184423_20210114T184426_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210114T180243_20210114T180441_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184323_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184328_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_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_20210114T184407_20210114T184421_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_20210114T181127_20210114T182703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184323_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_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_20210114T184407_20210114T184421_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_20210114T184423_20210114T184426_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_20210114T184423_20210114T184426_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210114T182905_20210114T183828_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184323_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T18440_20210114T18440_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_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_20210114T184423_20210114T184421_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_20210114T184423_20210114T184426_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_20210114T184423_20210114T184426_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210114T184136_20210114T184207_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184251_20210114T184301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184323_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184332_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_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	CS_OFFL_SIR_LRM_1B_20210114T184214_20210114T184231_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184323_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_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	CS_OFFL_SIR_LRM_1B_20210114T184234_20210114T184249_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184308_20210114T184323_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_20210114T184333_20210114T184357_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_20210114T184400_20210114T184404_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_20210114T184251_20210114T184301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184328_20210114T184331_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210114T184305_20210114T184306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184357_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_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_20210114T184308_20210114T184323_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184427_20210114T184421_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184426_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_20210114T184328_20210114T184331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184426_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210114T184333_20210114T184357_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184426_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210114T184400_20210114T184404_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210114T184407_20210114T184421_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T184428_20210114T184500_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210114T184423_20210114T184426_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210114T184428_20210114T184500_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20210114T184503 20210114T184852 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210114T190614 20210114T191750 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210114T192353 20210114T192424 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210114T192949 20210114T192956 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T192958_20210114T193011_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210114T193015 20210114T193017 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210114T193021 20210114T193026 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T193028_20210114T193036_D001	Loss of echo	•
		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T193041_20210114T193208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T194057_20210114T194846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T201425_20210114T201443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T201445_20210114T201526_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T201910_20210114T202041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T202048_20210114T202052_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T202056_20210114T202202_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T202210_20210114T202223_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T202228_20210114T202312_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T202315_20210114T202317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T202321_20210114T202829_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T204411_20210114T211649_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T211921_20210114T212134_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T212149_20210114T212738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T213014_20210114T215550_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T215929_20210114T220415_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T222116_20210114T222433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T222712_20210114T222946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T222950_20210114T225454_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T230911_20210114T233055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T233058_20210114T233721_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T233723_20210114T233800_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T233805_20210114T233847_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T233924_20210114T234112_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210114T234145_20210114T234414_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.

0

Number of products with errors:

#### 4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 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: 0

### 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: 0

### 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

0

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### 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_220210113T235934_20210114T002132_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_220210114T002136_20210114T002718_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_220210114T003559_20210114T003641_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_220210114T005037_20210114T012513_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_220210114T014310_20210114T014502_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_220210114T020404_20210114T020537_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_220210114T021407_20210114T021632_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_220210114T023043_20210114T023919_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_220210114T024205_20210114T030413_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_220210114T031735_20210114T033036_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_220210114T033224_20210114T033839_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_220210114T034016_20210114T034459_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_220210114T041014_20210114T044314_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_220210114T050116_20210114T053150_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_220210114T055126_20210114T055437_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_220210114T055439_20210114T060450_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_220210114T060642_20210114T062225_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_220210114T063843_20210114T064853_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_220210114T065513_20210114T070617_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_220210114T070827_20210114T071009_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220210114T072934_20210114T074035_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_220210114T074221_20210114T074503_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_220210114T074643_20210114T080114_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_220210114T081459_20210114T083851_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_220210114T083937_20210114T084844_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_220210114T090903_20210114T090932_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210114T091807_20210114T094115_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_220210114T095358_20210114T102208_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_220210114T105337_20210114T112015_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_220210114T113423_20210114T115206_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_220210114T120326_20210114T120804_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_220210114T123034_20210114T123533_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_220210114T125345_20210114T125949_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_220210114T130154_20210114T130732_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210114T131333_20210114T134642_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_220210114T140038_20210114T140132_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_220210114T140821_20210114T140826_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_220210114T142006_20210114T143914_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_220210114T145203_20210114T152634_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_220210114T155107_20210114T155532_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_220210114T155623_20210114T161357_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_220210114T163234_20210114T170154_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_220210114T170728_20210114T170821_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210114T172133_20210114T173947_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_220210114T174208_20210114T175424_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_220210114T181127_20210114T182703_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_220210114T182905_20210114T183828_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_220210114T190614_20210114T191750_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_220210114T192353_20210114T192424_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210114T195104_20210114T200608_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_220210114T204411_20210114T211649_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_220210114T213014_20210114T215550_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_220210114T222712_20210114T222946_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_220210114T222950_20210114T225454_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_220210114T230911_20210114T233055_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_220210114T233058_20210114T233721_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	201	201	201	0	0
SIR_SAR_1B	128	128	128	0	0
SIR_SIN_1B	111	111	111	0	0
SIR_LRM_2	201	201	197	4	0
SIR_SAR_2	111	127	127	0	0
SIR_SIN_2	127	111	109	2	0
SIR_GDR_2	15	15	0	0	15

### 6.1 QCC Errors

Number of products with QCC errors:

15

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	•	•	-
SIR_GDR_2_	15	15	15	15	15	15	15	15			
0											

Test Description Key:				
Abbreviation	Test name	<b>Details</b>		
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)		
STRUCTURESIZEANDRSTRUCTURE_SIZE_AND_READ		Under investigation.		

## 6.2 QCC Warnings

Number of QCC reports with warnings

•

Tota	l number	of occ	currences	of each	warning

Product Type	AXDME	AXSMMEOCI	-	•	-	•	•
SIR_LRM_2_	0	4					
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