

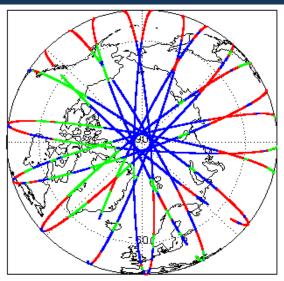
# 1. Overview

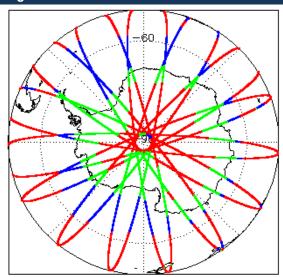
Report Production Date:	15-Jan-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

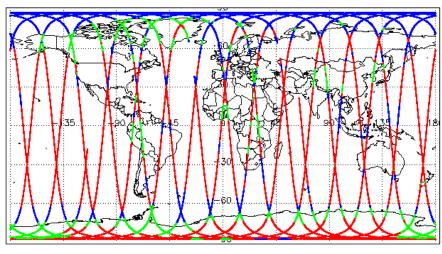
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

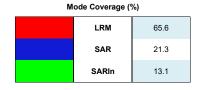
Mission / Instru	Mission / Instrument News				
16-Dec-2020	SIRAL Unavailability due to planned On-board Maintenance on 2020-12-16 from 13:35:00 to 13:50:02 UTC.				
17-Dec-2020	None				
18-Dec-2020	Nothing planned				

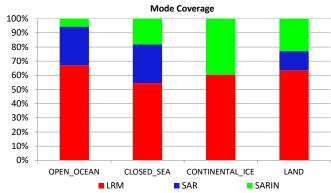
# 2. Global Coverage

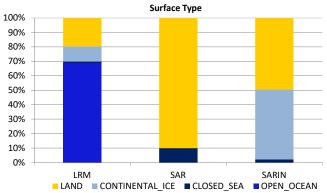












### 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

# 4. Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

Number of products with errors:

### 4.2 L1B Product Header Analysis

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

Number of products with errors:

0

### 4.3 Star Tracker Usage Check

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

Number of products with errors:

0

### 4.4 L1B Tracking Flags Check

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

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

lumber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201217T002703_20201217T005326_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T005329_20201217T005359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T005406_20201217T005611_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T005656_20201217T005824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T005909_20201217T010146_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T011912_20201217T015051_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T021618_20201217T022037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T022544_20201217T023155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T023442_20201217T023500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T023502_20201217T023515_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T023533_20201217T023706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T023706_20201217T023826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T024141_20201217T024153_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T040707_20201217T041233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T041347_20201217T041414_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T041425_20201217T041445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T041455_20201217T041559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T050430_20201217T050928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T051714_20201217T052128_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T061225_20201217T061305_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T061308_20201217T061346_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T063125_20201217T063320_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T063322_20201217T063327_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T063330_20201217T063332_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T063340_20201217T064201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T070719_20201217T071830_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T071832_20201217T071941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075127_20201217T075133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075137_20201217T075155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075159_20201217T075219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075227_20201217T075248_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075251_20201217T075437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075441_20201217T075450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075452_20201217T075540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T075550_20201217T075707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T080115_20201217T081045_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T081248_20201217T082004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T084923_20201217T085220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T085223_20201217T085242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T085245_20201217T085253_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T085258_20201217T085323_D001	Loss of echo	The tracking echo is missing for one or more records

Company   Comp	CS_OFFL_SIR_LRM_1B_20201217T090109_20201217T090511_D001	Loss of echo	The tracking echo is missing for one or more records
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Company   Comp			
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Co. C. P. C. INC. LAM. 18. 2002/17/11/18/04. 2002/17/11/18/07. 2002/17/18/07/07/07/07/07/07/07/07/07/07/07/07/07/			
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CS_OFF_SR_LRM_18_2000121710500_2001217110505_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_2000121710505_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_2000121710505_20001217113050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217110505_20001217113050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217110505_20001217113050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217110505_20001217114050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217114001_20001217114050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217114001_20001217114050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217114001_20001217114050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_200012171105072_20001217110502_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_200012171105072_20001217110502_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_200012171105072_200012171105072_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_200012171105072_200012171105072_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_200012171105072_200012171105072_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_200012171105072_200012171105072_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217106072_200012171106072_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20001217106072_200012171106072_0001  Loss of exho  The tracking exho is missing for one or more recor			
CS_OFF_SR_LRM_18_20001217T125823_2000_2001217T125855_D001  Lose of scho  The tracking acho is messing for one or more records  CS_OFF_SR_LRM_18_20001217T133057_20001217T133058_D001  Lose of scho  The tracking acho is messing for one or more records  CS_OFF_SR_LRM_18_20001217T133057_20001217T133058_D001  Lose of scho  The tracking acho is messing for one or more records  CS_OFF_SR_LRM_18_20001217T133057_20001217T133058_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T14402_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T14402_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T14402_D001217T14402_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T14407_2000127T14402_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T14407_2000127T14402_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T14507_2000101  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T16507_200012T1716507_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_20001217T16507_200012T1716527_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_200012T1716601_200012T1716627_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_200012T1716601_200012T1716627_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_200012T1716601_200012T1716627_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_200012T1716601_200012T1716627_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_200012T1716442_D0012T1716628_D001  Lose of scho  The tracking acho is missing for one or more records  CS_OFF_SR_LRM_18_200012			
CS_OFF_SR_LRM_18_202012171730915_202012171730915_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012171730925_202012171730915_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201217173092_202012171744000_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_2020121717447000_20001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_2020121717447000_20001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012171744700_20001001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012171744700_2000101 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_2020121717447050_2000101 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012171745300_2000101 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201217176300_2000117175121_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201217176300_200011717514500_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201217176300_20001171751450_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201217176300_2000117175340_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201217776400_2000117175340_D0011 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201217776400_20001171776300_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012177600_20001171776300_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012177600_20001171776300_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_2020121777600_20001171776300_D001 Loss of scho The tracking act to a mis			
CS_OFFL_SR_LRM_1B_20201217110518_2000000000000000000000000000000000000			
CS_OFF_SIR_LRM_18_20201217114257_20201217114259_D001  CS_OFF_SIR_LRM_18_20201217144257_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714420_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714420_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714420_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714420_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714420_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714420_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714420_2020121714420_D001  CS_OFF_SIR_LRM_18_2020121714520_2020121714200_D001  CS_OFF_SIR_LRM_18_2020121714520_202012171520_D001  CS_OFF_SIR_LRM_18_2020121714520_202012171520_D001  CS_OFF_SIR_LRM_18_2020121714520_202012171521_D001  CS_OFF_SIR_LRM_18_202012171520_D00121715221_D001  CS_OFF_SIR_LRM_18_202012171716051_2020121715221_D001  CS_OFF_SIR_LRM_18_202012171716051_2020121715221_D001  CS_OFF_SIR_LRM_18_202012171716051_2020121715221_D001  CS_OFF_SIR_LRM_18_202012171716051_202012171716221_D001  CS_OFF_SIR_LRM_18_202012171716051_202012171716221_D001  CS_OFF_SIR_LRM_18_202012171716051_202012171716221_D001  CS_OFF_SIR_LRM_18_202012171716051_202012171716251_D001  CS_OFF_SIR_LRM_18_202012171716050_202012171716250_D001  CS_OFF_SIR_LRM_18_20201217170042_202012171717045_D001  CS_OFF_SIR_LRM_18_20201217170042_202012171717045_D001  CS_OFF_SIR_LRM_18_20201217170042_202012171717045_D001  CS_OFF_SIR_LRM_18_20201217170042_2020121717005_D001  CS_OFF_SIR_LRM_18_20201217170042_2020121717005_D001  CS_OFF_SIR_LRM_18_20201217170060_20201217170060_D001  CS_OFF_SIR_LRM_18_20201217170060_20201217170060_D001  CS_OFF_SIR_LRM_18_20201217170060_20201217170060_D001  CS_OFF_SIR_LRM_18_20201217170060_20201217170060_D001  CS_OFF_SIR_LRM_18_20201217170060_20201217170060_D001  CS_OFF_SIR_LRM_18_20201217170060_20201217170060_D001  CS_OFF_SIR_LRM_18_20201217170060_2020121710060_D001  CS_OFF_SIR_LRM_18_20201217170060_2020121710060_D001  CS_OFF_SIR_LRM_18_20201217170060_2020121710060_D001  CS_OFF_SIR_LRM_18_20201217170060_2020121710060_D001  CS_OFF_SIR_LRM_18_20201217170060_2020121710060_D001  CS_OFF_SIR_LRM_18_			
CS_OFFL_SIR_LRM_18_20201217T142607_20201217T142605_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T144202_20201217T144267_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T144204_20201217T144267_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T144204_20201217T144207_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T164737_20201217T16420_20001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T164737_20201217T16433_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T16472_20201217T16433_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T16472_20201217T16433_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T16472_20201217T17433_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T16472_20201217T17437_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T174740_20201217T1717340_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173430_000127T173441_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173430_000127T173441_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173430_000127T173441_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173430_000127T173441_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173420_000127T173441_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173420_0001  Loss of exho  The track			
CS_OFFL_SIR_LRM_18_20021217T143022_20201217T145001_0001  CS_OFFL_SIR_LRM_18_20021217T143030_20201217T146020_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T143030_20201217T14500_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T143332_20201217T14500_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T163332_20201217T16320_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16332_20201217T16312_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16352_20201217T163212_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16405_20201217T163212_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16405_20201217T163212_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16405_20201217T16332_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T17444_20201217T17432_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T17444_20201217T17435_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T17444_20021217T17435_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T17444_20021217T17353_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16445_2002127T17444_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16445_2002127T176445_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20021217T16445_20021217T16445_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LR			
CS_OFFL_SIR_LEM_18_202012/17149003_202012/1714905_20001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17144904_202012/17144957_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1714907_202012/1714900_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1716975_202012/1716975_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1716975_202012/171695_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1716975_202012/171695_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1716975_202012/1716921_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1716901_202012/1717937_00101  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17179409_202012/1717937_00101  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17179409_202012/17177940_00101  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1717944_202012/17177940_001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/1717944_202012/17179440_001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17179440_202012/17179440_001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17179440_202011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17179440_202011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17190440_202012/17190540_001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LEM_18_202012/17190844_202012/17190594_0001  Loss of echo The tracking echo is missing for one o			
CS_OFFL_SIR_LRM_IB_20201217T144207_20201217T144657_0001  CS_OFFL_SIR_LRM_IB_20201217T144737_2020101  CS_OFFL_SIR_LRM_IB_20201217T14737_2020101  CS_OFFL_SIR_LRM_IB_20201217T16795_20201217T16508_0001  CS_OFFL_SIR_LRM_IB_20201217T161242_20201217T16453_0001  CS_OFFL_SIR_LRM_IB_20201217T161242_20201217T16453_0001  CS_OFFL_SIR_LRM_IB_20201217T161242_20201217T16453_0001  CS_OFFL_SIR_LRM_IB_20201217T161242_20201217T16453_0001  CS_OFFL_SIR_LRM_IB_20201217T16501_20201217T16221_0001  CS_OFFL_SIR_LRM_IB_20201217T16501_20201217T16453_0001  CS_OFFL_SIR_LRM_IB_20201217T16501_20201217T17447_0001  CS_OFFL_SIR_LRM_IB_20201217T17445_20201217T17435_0001  CS_OFFL_SIR_LRM_IB_20201217T17446_20201217T17348_0001  CS_OFFL_SIR_LRM_IB_20201217T17349_202012T17T348_0001  CS_OFFL_SIR_LRM_IB_20201217T17349_202012T17T3738_0001  CS_OFFL_SIR_LRM_IB_20201217T17349_202012T17T3738_0001  CS_OFFL_SIR_LRM_IB_20201217T17349_202012T17T3738_0001  CS_OFFL_SIR_LRM_IB_20201217T17349_202012T17T3738_0001  CS_OFFL_SIR_LRM_IB_20201217T17349_202012T17T3738_0001  CS_OFFL_SIR_LRM_IB_20201217T17349_202012T17T3738_0001  CS_OFFL_SIR_LRM_IB_20201217T17344_202012T17T3849_0001  CS_OFFL_SIR_LRM_IB_20201217T17344_202012T17T3849_0001  CS_OFFL_SIR_LRM_IB_20201217T18627_202012T17T3849_0001  CS_OFFL_SIR_LRM_IB_20201217T18627_202012T17T18642_0001  CS_OFFL_SIR_LRM_IB_20201217T18627_202012T17T18644_0001  CS_OFFL_SIR_LRM_IB_20201217T18627_202012T17T18644_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T17T18644_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T17T18644_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T17T19654_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T17T19654_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T17T19654_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T17T19640_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T1719650_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T1719640_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T1719640_0001  CS_OFFL_SIR_LRM_IB_20201217T19642_202012T1719640_0001  CS_OFFL_SIR_LRM_IB_20201217T19640_202012T1719640_0001  CS_OFFL_SIR_LRM_IB_2			
CS_OFFL_SIR_LRM_1B_20201217114737_20201217114520_  CS_OFFL_SIR_LRM_1B_202012171145324_202012171145706_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217116922_20201217116321_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202012171161851_20201217716221_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202012171161851_20201217716221_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202012177164722_20201217716921_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202012177164722_20201217717437_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217717440_20201217717435_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217717440_20201217717435_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217717440_20201217717435_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217717440_20201217717330_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217714442_201217717330_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217714841_20201217718440_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217716841_20201217718440_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202012177169042_202012177190504_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217719044_202012177190504_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217719132_20201217719132_D001  Loss of eche The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217719132_20			
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CS_OFFL_SIR_LRM_18_20201217T161242_20201217T16452_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T16272_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T165901_20201217T170437_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T170445_20201217T170437_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T170446_20201217T173158_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173440_20201217T173436_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T173444_20201217T173533_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T134442_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T134442_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T134442_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T134442_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T134442_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T134442_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T130442_D0011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T19034_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T191342_D001217T19034_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T191142_D001217T191320_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201217T191342_D001217T191320_D001  Loss of echo The tracking		Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201217T170446_20201217T173456_D001			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T173410_20201217T173436_D001  CS_OFFL_SIR_LRM_1B_20201217T173439_20201217T17333_D001  CS_OFFL_SIR_LRM_1B_20201217T173434_20201217T173533_D001  CS_OFFL_SIR_LRM_1B_20201217T136320_20201217T136320_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T136320_20201217T18451_D0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T184621_20201217T184619_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T184621_20201217T184619_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T194621_20201217T194642_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T19028_20201217T190751_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T190844_20201217T19034_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T191133_20201217T191133_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T191133_20201217T191132_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T191132_202011_T1719114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T19132_202011_T1719132_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T19133_20201217T19132_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T19133_20201217T19133_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T19133_D001217T19135_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T19135_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_18_20201217T184621_20201217T185424_D001  CS_OFFL_SIR_LRM_18_20201217T190284_20201217T190751_D001  CS_OFFL_SIR_LRM_18_20201217T190844_20201217T190934_D001  CS_OFFL_SIR_LRM_18_20201217T190844_20201217T190934_D001  CS_OFFL_SIR_LRM_18_20201217T19133_20201217T19139_D001  CS_OFFL_SIR_LRM_18_20201217T191133_20201217T191139_D001  CS_OFFL_SIR_LRM_18_20201217T191143_20201217T191148_D001  CS_OFFL_SIR_LRM_18_20201217T191143_20201217T191148_D001  CS_OFFL_SIR_LRM_18_20201217T191143_20201217T191148_D001  CS_OFFL_SIR_LRM_18_20201217T191150_20201217T191201_D001  CS_OFFL_SIR_LRM_18_20201217T191204_20201217T191202_D001  CS_OFFL_SIR_LRM_18_20201217T191204_20201217T191322_D001  CS_OFFL_SIR_LRM_18_20201217T191324_20201217T191326_D001  CS_OFFL_SIR_LRM_18_20201217T191332_20201217T191355_D001  CS_OFFL_SIR_LRM_18_20201217T191333_20201217T191433_D001  CS_OFFL_SIR_LRM_18_20201217T191424_20201217T191433_D001  CS_OFFL_SIR_LRM_18_20201217T191425_20201217T191433_D001  CS_OFFL_SIR_LRM_18_20201217T1914366_20201217T191435_D001  CS_OFFL_SIR_LRM_18_20201217T191466_20201217T191455_D001  CS_OFFL_SIR_LRM_18_20201217T191466_20201217T191455_D001  CS_OFFL_SIR_LRM_18_20201217T191466_20201217T191457_D001  CS_OFFL_SIR_LRM_18_20201217T191466_20201217T191457_D001  CS_OFFL_SIR_LRM_18_20201217T191466_20201217T10445_D001  CS_OFFL_SIR_LRM_18_20201217T10466_20201217T20042_D001  CS_OFFL_SIR_LRM_18_20201217T200252_0201217T20042_D001  CS_OFFL_SIR_LRM_18_20201217T200356_20201217T20042_D001  CS_OFFL_SIR_LRM_18_20201217T201442_20201217T20042_D001  CS_OFFL_SIR_LRM_18_20201217T20356_20201217T20357_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 e		Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201217T191436_20201217T191450_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201217T191358_20201217T191413_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201217T200825_20201217T201042_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T201749_20201217T203217_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201217T203356_20201217T203527_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_20201217T191452_20201217T191457_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201217T203530_20201217T204613_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201217T203356_20201217T203527_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201217T203530_20201217T204613_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201217T204616_20201217T204846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T204850_20201217T204853_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T204858_20201217T204900_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T204903_20201217T204907_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T204909_20201217T204918_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T204920_20201217T204930_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T204933_20201217T204934_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T204936_20201217T204937_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T205029_20201217T205033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T205037_20201217T205103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T205105_20201217T205107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T205109_20201217T205446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T210901_20201217T211034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T211152_20201217T211801_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T211923_20201217T212133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T212237_20201217T212317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T212320_20201217T212333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T212335_20201217T212341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T212345_20201217T212404_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T214615_20201217T215446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T222455_20201217T222536_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T222650_20201217T222739_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T222751_20201217T222814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T222816_20201217T222818_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T222821_20201217T223324_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T224536_20201217T224602_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T224824_20201217T225314_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T225524_20201217T225719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201217T225723_20201217T232155_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:

### 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: 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

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

### 5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIn X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

Number of products with errors: 62	Took Failed	Description
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201216T234638_20201217T001152_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_220201217T002703_20201217T005326_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_220201217T011912_20201217T015051_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_220201217T020643_20201217T021125_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_220201217T022544_20201217T023155_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_220201217T025706_20201217T033037_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_220201217T034656_20201217T040348_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_220201217T043530_20201217T050427_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_220201217T050430_20201217T050928_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_220201217T052608_20201217T055054_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_220201217T063125_20201217T063320_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_220201217T063340_20201217T064201_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_220201217T064334_20201217T064846_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_220201217T070719_20201217T071830_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_220201217T072131_20201217T073010_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_220201217T080115_20201217T081045_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_220201217T081248_20201217T082004_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_220201217T082119_20201217T082742_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_220201217T085436_20201217T085507_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201217T090109_20201217T090511_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_220201217T090516_20201217T090923_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_220201217T091053_20201217T091407_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_2_20201217T093929_20201217T093933_D001 Surface Model Unavailable  CS_OFFL_SIR_LRM_2_20201217T093936_20201217T094004_D001 Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201217T093936_20201217T094004_D001 Surface Model Unavailable	
	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201217T095112_20201217T100705_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T102110_20201217T104356_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T104400_20201217T105528_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	
CS_OFFL_SIR_LRM_2_20201217T110949_20201217T111244_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), He CS_OFFL_SIR_LRM_2_20201217T112041_20201217T114617_D001 (Retracker 3), Backscatter Err	
(Retracker 2)  CS_OFFL_SIR_LRM_2_20201217T120049_20201217T122719_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T122915_20201217T122953_D001	
CS_OFFL_SIR_LRM_2_20201217T122959_20201217T123202_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T125900_20201217T130515_D001	
CS_OFFL_SIR_LRM_2_20201217T130518_20201217T132508_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T134121_20201217T141416_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), He CS_OFFL_SIR_LRM_2_20201217T142657_20201217T142905_D001 (Retracker 3), Backscatter Err (Retracker 2)	
CS_OFFL_SIR_LRM_220201217T150759_20201217T151321_D001 Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20201217T154412_20201217T155348_D001 Height Error (Retracker 2), He (Retracker 3), Backscatter Error (Retracker 2), Surface model of the control of the c	or Retracker 3 and no DEM or Slope Model was used for the location of one
CS_OFFL_SIR_LRM_2_20201217T160535_20201217T160928_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201217T162532_20201217T163022_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T163210_20201217T164236_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), He CS_OFFL_SIR_LRM_2_20201217T165901_20201217T170437_D001 (Retracker 3), Backscatter Err (Retracker 2), Surface model of the control of the con	or Retracker 3 and no DEM or Slope Model was used for the location of one
Height Error (Retracker 2), He CS_OFFL_SIR_LRM_2_20201217T170446_20201217T173158_D001 (Retracker 3), Backscatter Err (Retracker 2)	
CS_OFFL_SIR_LRM_2_20201217T175702_20201217T182000_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T183826_20201217T184429_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T184511_20201217T184619_D001	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T184621_20201217T185424_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T185427_20201217T185548_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201217T190028_20201217T190751_D001 Height Error (Retracker 2), Ba Error (Retracker 2)	Ckscatter There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220201217T193616_20201217T194432_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_220201217T194646_20201217T200147_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_220201217T201749_20201217T203217_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_220201217T203356_20201217T203527_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_220201217T203530_20201217T204613_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_220201217T210901_20201217T211034_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201217T211152_20201217T211801_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_220201217T211923_20201217T212133_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_220201217T212800_20201217T214303_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_220201217T215716_20201217T221946_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_220201217T225723_20201217T232155_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_220201217T234036_20201218T000207_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	204	204	204	0	0
SIR_SAR_1B	135	135	135	0	0
SIR_SIN_1B	104	104	104	0	0
SIR_LRM_2	198	198	192	6	0
SIR_SAR_2	102	134	134	0	0
SIR_SIN_2	134	102	100	2	0
SIR GDR 2	15	15	0	0	15

### 6.1 QCC Errors

Number of products with QCC errors:

SIR_GDR_2_ 15	15	15	15	45	4-				
			15	15	15	15	15		
Test Description Key: Abbreviation Tes	st name		Details						

lest 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)	
STRUCTURESIZEAND READ	STRUCTURE_SIZE_AND_READ	Under investigation.	

# 6.2 QCC Warnings

Number of QCC reports with warnings

	rotal number of occurrences of each warning						
Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
SIR_GDR_2_	0	1					
SIR_LRM_2_	0	6					

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:

Product name
CS\_OFFL\_SIR\_GDR\_2\_20201217T235328\_20201218T013243\_D002