



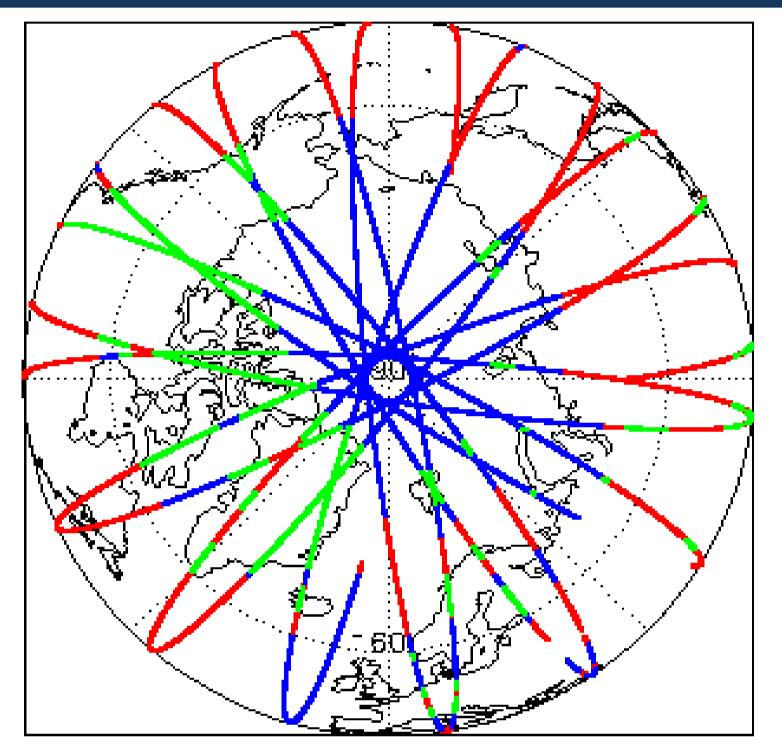
1. Overview

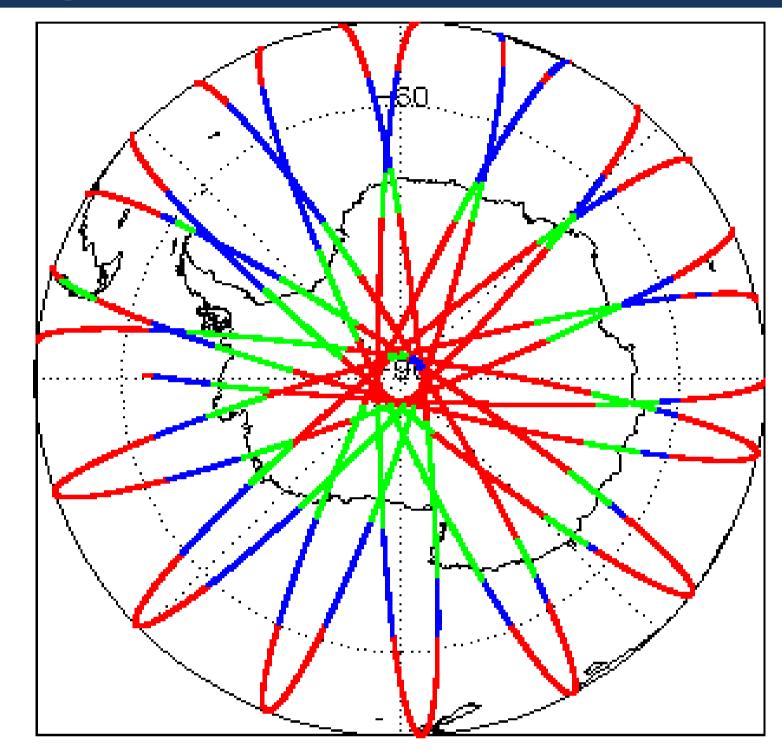
Report Production Date:	09-Dec-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

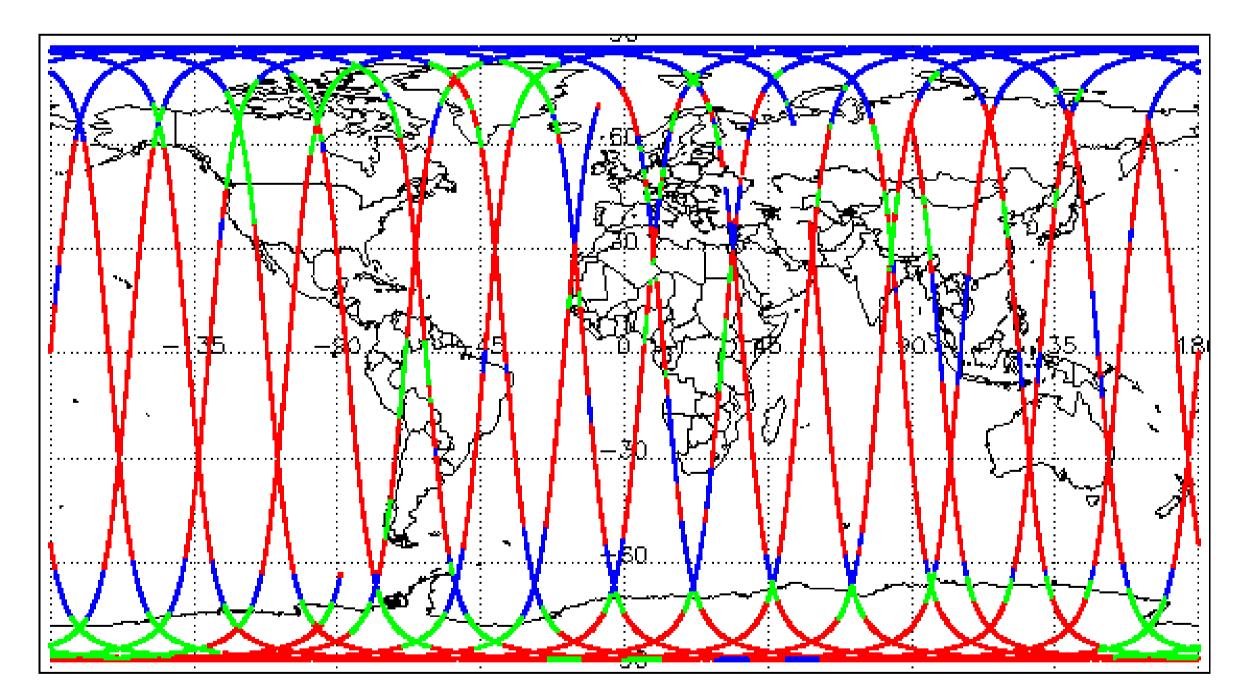
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

Mission / Instru	iment News
07-Nov-2020	None
08-Nov-2020	None
09-Nov-2020	Nothing planned

2. Global Coverage



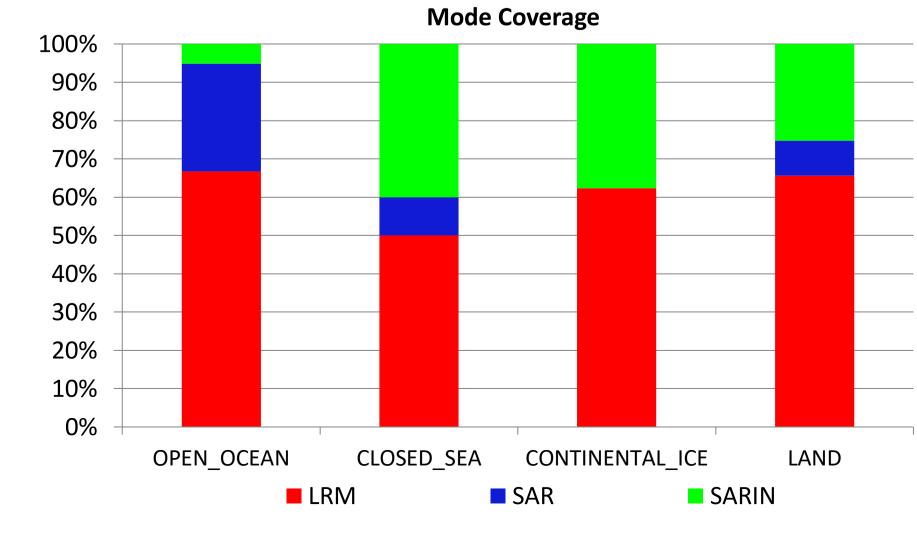


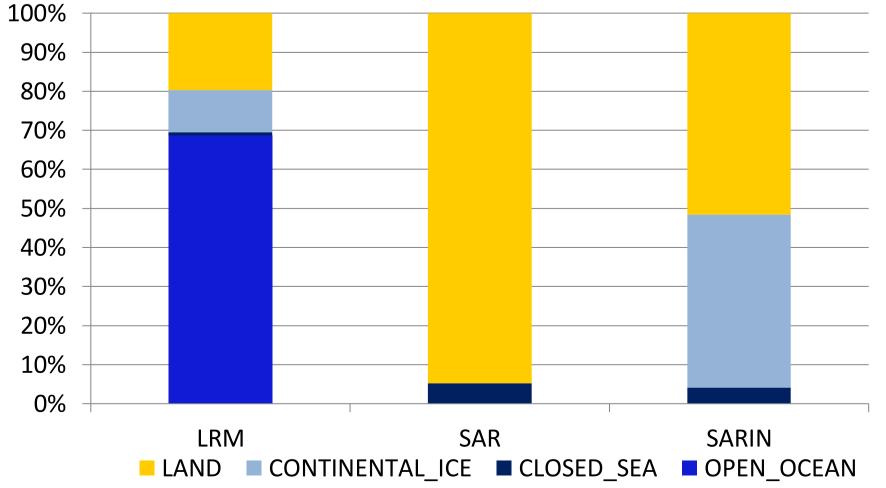




LRM	65.8
SAR	21.0
SARIn	13.2

Surface Type





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 Che	ck	
Each product, retrieved and unpacked from	n 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	
4.2 L1B Product Header Ana	lysis	
For all products, a series of pre-defined ch	ecks 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 Chec	; k	
Each product is checked in order to ensure	e a valid star tracker file has beer	n used in processing.
Number of products with errors:	0	
4.4 L1B Tracking Flags Chee	;k	
CryoSat L1B data includes a tracking flag	for each measurement record. Th	ne bit value of this flag indicates any problems when set.
Loss of Echo Flag: This flag is currently s	set for some products over land,	but this is to be expected.

Number of products with errors:

129

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201108T003641_20201108T003811_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T004423_20201108T004756_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201108T010520_20201108T013840_D001 CS_OFFL_SIR_LRM_1B_20201108T015447_20201108T021832_D001 CS_OFFL_SIR_LRM_1B_20201108T021835_20201108T022116_D001 CS_OFFL_SIR_LRM_1B_20201108T022118_20201108T022643_D001 CS_OFFL_SIR_LRM_1B_20201108T022643_20201108T022900_D001 CS_OFFL_SIR_LRM_1B_20201108T033405_20201108T034741_D001 CS_OFFL_SIR_LRM_1B_20201108T034744_20201108T034915_D001 CS_OFFL_SIR_LRM_1B_20201108T034917_20201108T035049_D001 CS_OFFL_SIR_LRM_1B_20201108T035054_20201108T035151_D001 CS_OFFL_SIR_LRM_1B_20201108T035153_20201108T035201_D001 CS_OFFL_SIR_LRM_1B_20201108T035203_20201108T035211_D001 CS_OFFL_SIR_LRM_1B_20201108T035213_20201108T035749_D001 CS_OFFL_SIR_LRM_1B_20201108T035758_20201108T035840_D001 CS_OFFL_SIR_LRM_1B_20201108T040018_20201108T040129_D001 CS_OFFL_SIR_LRM_1B_20201108T040307_20201108T040408_D001 CS_OFFL_SIR_LRM_1B_20201108T040834_20201108T040919_D001 CS_OFFL_SIR_LRM_1B_20201108T052559_20201108T052743_D001 CS_OFFL_SIR_LRM_1B_20201108T052801_20201108T053505_D001 CS_OFFL_SIR_LRM_1B_20201108T053648_20201108T053931_D001 CS_OFFL_SIR_LRM_1B_20201108T054219_20201108T054319_D001 CS_OFFL_SIR_LRM_1B_20201108T061447_20201108T063603_D001 CS_OFFL_SIR_LRM_1B_20201108T070511_20201108T071228_D001 CS_OFFL_SIR_LRM_1B_20201108T071324_20201108T071730_D001 CS_OFFL_SIR_LRM_1B_20201108T073933_20201108T074821_D001 CS_OFFL_SIR_LRM_1B_20201108T074910_20201108T081503_D001 CS_OFFL_SIR_LRM_1B_20201108T082317_20201108T082552_D001 Loss of echo Loss of echo

The tracking echo is missing for one or more records The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201108T083401_20201108T084632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091804_20201108T091808_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091811_20201108T091827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091830_20201108T091831_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091834_20201108T091836_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091839_20201108T091848_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091852_20201108T091905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091907_20201108T091915_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091917_20201108T091941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T091943_20201108T092006_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092011_20201108T092018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092023_20201108T092023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092026_20201108T092044_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201108T092048_20201108T092057_D001
CS_OFFL_SIR_LRM_1B_20201108T092100_20201108T092101_D001
CS_OFFL_SIR_LRM_1B_20201108T092108_20201108T092119_D001
CS_OFFL_SIR_LRM_1B_20201108T092124_20201108T092137_D001
CS_OFFL_SIR_LRM_1B_20201108T092140_20201108T092153_D001
CS_OFFL_SIR_LRM_1B_20201108T092156_20201108T092427_D001
CS_OFFL_SIR_LRM_1B_20201108T092542_20201108T093722_D001
CS_OFFL_SIR_LRM_1B_20201108T093926_20201108T095434_D001
CS_OFFL_SIR_LRM_1B_20201108T101106_20201108T101909_D001
CS_OFFL_SIR_LRM_1B_20201108T101930_20201108T102233_D001
CS_OFFL_SIR_LRM_1B_20201108T102236_20201108T102319_D001
CS_OFFL_SIR_LRM_1B_20201108T102334_20201108T102444_D001
CS_OFFL_SIR_LRM_1B_20201108T102759_20201108T104415_D001
CS_OFFL_SIR_LRM_1B_20201108T105655_20201108T110000_D001
CS_OFFL_SIR_LRM_1B_20201108T110003_20201108T110037_D001
CS_OFFL_SIR_LRM_1B_20201108T110039_20201108T110220_D001
CS_OFFL_SIR_LRM_1B_20201108T110223_20201108T110232_D001
CS_OFFL_SIR_LRM_1B_20201108T110234_20201108T111036_D001
CS_OFFL_SIR_LRM_1B_20201108T114150_20201108T114259_D001
CS_OFFL_SIR_LRM_1B_20201108T114846_20201108T122225_D001
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CS_OFFL_SIR_LRM_1B_20201108T123537_20201108T124255_D001
CS_OFFL_SIR_LRM_1B_20201108T124258_20201108T124319_D001
CS_OFFL_SIR_LRM_1B_20201108T124439_20201108T124537_D001
CS_OFFL_SIR_LRM_1B_20201108T124846_20201108T124908_D001
CS_OFFL_SIR_LRM_1B_20201108T124940_20201108T124900_D001
CS_OFFL_SIR_LRM_1B_20201108T132757_20201108T135355_D001
CS_OFFL_SIR_LRM_1B_20201108T135403_20201108T135535_D001
CS_OFFL_SIR_LRM_1B_20201108T135525_20201108T135533_D001
CS_OFFL_SIR_LRM_1B_20201108T135536_20201108T135549_D001
CS_OFFL_SIR_LRM_1B_20201108T135553_20201108T135558_D001
CS_OFFL_SIR_LRM_1B_20201108T141650_20201108T141659_D001
CS_OFFL_SIR_LRM_1B_20201108T141711_20201108T142215_D001
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001
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CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001
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CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001
CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174621_D001
CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001
CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001
CS OFFL SIR LRM 1B 20201108T182606 20201108T190030 D001

CS_OFFL_SIR_LRM_1B_20201108T092048_20201108T092057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092100_20201108T092101_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092108_20201108T092119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092124_20201108T092137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092140_20201108T092153_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092156_20201108T092427_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T092542_20201108T093722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T093926_20201108T095434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T101106_20201108T101909_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T101930_20201108T102233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T102236_20201108T102319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T102334_20201108T102444_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T102759_20201108T104415_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T105655_20201108T110000_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T110003_20201108T110037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T110039_20201108T110220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T110223_20201108T110232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T110234_20201108T111036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T114150_20201108T114259_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T114846_20201108T122225_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T122335_20201108T122435_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T123537_20201108T124255_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T124258_20201108T124319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T124439_20201108T124537_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T124846_20201108T124908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T124914_20201108T131010_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T132757_20201108T135355_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T135403_20201108T135522_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T135525_20201108T135533_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T135536_20201108T135549_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T135553_20201108T135558_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T141650_20201108T141659_D001	Loss of echo	The tracking echo is missing for one or more records
		0 0
CS OFFL SIR LRM 1B 20201108T141711 20201108T142215 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T141711_20201108T142215_D001 CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001	Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001	Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001	Loss of echo Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001	Loss of echo Loss of echo Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_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_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_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_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161139_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
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CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T173608_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174621_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T190048_D001	 Loss of echo Loss of echo<	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T1818401_20201108T18190030_D001 CS_OFFL_SIR_LRM_1B_20201108T18181001	 Loss of echo Loss of echo<	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T16133_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174029_D001108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T18190033_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T18190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 <	 Loss of echo Loss of echo<	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T15001_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T1610732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T16133_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T173930_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T17401_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190121_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001	 Loss of echo Loss of echo<	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T161334_2001108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T16332_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174021_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T182606_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190121_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T19055_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_202	 Loss of echo Loss of echo<	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T150308_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T161319_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161839_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T16133_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T173608_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T182606_20201108T19003_D001 CS_OFFL_SIR_LRM_1B_20201108T19003_20201108T190124_D001 CS_OFFL_SIR_LRM_1B_20201108T190012_20201108T190125_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190124_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_202	Loss of echoLoss of echo <td>The tracking echo is missing for one or more records The tracking echo is missing for</td>	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T155557_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T155715_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T1610838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161708_20201108T161337_D001 CS_OFFL_SIR_LRM_1B_20201108T161339_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163341_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T173068_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T173930_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174019_20201108T17401_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T175041_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T19003_20201108T190121_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001	Ioss of echoLoss of echo <td>The tracking echo is missing for one or more records The tracking echo is missing for</td>	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160015_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160132_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T161341_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174351_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174390_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174392_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174021_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174021_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001	Loss of echoLoss of echo <td>The tracking echo is missing for one or more records The tracking echo is missing for</td>	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155333_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160015_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160732_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T16139_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T16439_20201108T164013_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T172055_D001 CS_OFFL_SIR_LRM_1B_20201108T173551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174393_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174392_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174003_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T181910_D001 CS_OFFL_SIR_LRM_1B_20201108T181401_20201108T1819003_D001 CS_OFFL_SIR_LRM_1B_20201108T190033_20201108T190048_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190124_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20	ILoss of echoLoss of echoL	The tracking echo is missing for one or more records The tracking echo is missing for
CS_OFFL_SIR_LRM_1B_20201108T142321_20201108T145114_D001 CS_OFFL_SIR_LRM_1B_20201108T145948_20201108T150316_D001 CS_OFFL_SIR_LRM_1B_20201108T155735_20201108T160001_D001 CS_OFFL_SIR_LRM_1B_20201108T160308_20201108T160015_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T160415_D001 CS_OFFL_SIR_LRM_1B_20201108T160554_20201108T161139_D001 CS_OFFL_SIR_LRM_1B_20201108T160838_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T161317_20201108T161334_D001 CS_OFFL_SIR_LRM_1B_20201108T16139_20201108T161837_D001 CS_OFFL_SIR_LRM_1B_20201108T163441_20201108T162327_D001 CS_OFFL_SIR_LRM_1B_20201108T163431_20201108T17605_D001 CS_OFFL_SIR_LRM_1B_20201108T164733_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T1743551_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174390_20201108T174009_D001 CS_OFFL_SIR_LRM_1B_20201108T174329_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T174030_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T1740421_D001 CS_OFFL_SIR_LRM_1B_20201108T174804_20201108T190030_D001 CS_OFFL_SIR_LRM_1B_20201108T190133_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190126_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 CS_OFFL_SIR_LRM_1B_20201108T190123_20201108T190159_D001 <td< td=""><td>Loss of echo Loss of echo</td><td>The tracking echo is missing for one or more records The tracking echo is missing for</td></td<>	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for

CS_OFFL_SIR_LRM_1B_20201108T204038_20201108T204145_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T204147_20201108T204157_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T211331_20201108T212739_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T213523_20201108T213726_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T214431_20201108T215919_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T220147_20201108T221110_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221345_20201108T221438_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221440_20201108T221635_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221637_20201108T221643_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221647_20201108T221720_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221722_20201108T221757_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221759_20201108T221940_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221942_20201108T221947_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T221952_20201108T222138_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T223401_20201108T225012_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T225618_20201108T230255_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T234709_20201108T234823_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T234827_20201108T234827_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T234829_20201108T234838_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T235216_20201108T235250_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T235252_20201108T235255_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T235257_20201108T235259_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T235321_20201108T235335_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20201108T235337_20201108T235338_D001	Loss of echo

0	The tracking echo is missing for one or more records
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0	The tracking echo is missing for one or more records
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4.3 LID Calibration Usage Chi	いしつ	
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Each product is checked in order to ensure that the necessary calibration files have been used in processing.

Number of products with errors: 0							
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: 0							
4.7 L1B Auxiliary Correction Error Check							
CryoSat L1B data includes a correction error flag (field 54) for each measureme	ent record. The bit value of this flag indic	cates any problems when set.					
Number of products with errors: 0							
4.8 L1B Measurement Confidence Data Check							
CryoSat L1B data includes a measurement confidence flag (field 18) for each m	neasurement record. The bit value of this	s flag indicates any problems when set.					
Currently, there are several common error flags raised in the Level 1B problem below, followed by a table of any additional issues arising from this test.	oducts which are expected due to ope	erational mode or surface type. All common flags are summarised in the list					
Block Degraded Flag: This flag is currently set for a number of individual recor	ds generally at the start or end of produ	ucts (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 appl	ication is deactivated, but this is in line with the current configuration.					
Number of products with errors: 1							
Product	roduct Test Failed Description						
CS_OFFL_SIR_LRM_1B_20201108T223401_20201108T225012_D001 Echo error, TRK echo error indicating a degraded echo							
5.	Level 2 Data Quality C	heck					
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).

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:

0

0

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:

0

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:

57

CS_OFFL_SIR_LRM_2_20201108T001508_20201108T003638_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 records CS_OFFL_SIR_LRM_2_20201108T003641_20201108T003811_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 records	2 for one or more
	2 for one or more
CS_OFFL_SIR_LRM_2_20201108T004934_20201108T005026_D001 Height Error (Retracker 2), Backscatter 2) There is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T010520_20201108T013840_D001 Height Error (Retracker 2), Height Error (Retracker 3), Height Error (Retracker 2), Height Error (Retracker 3), He	2 and a height error
CS_OFFL_SIR_LRM_220201108T015447_20201108T021832_D001 Height Error (Retracker 2), He	2 and a height error
CS_OFFL_SIR_LRM_220201108T025115_20201108T031640_D001 Height Error (Retracker 2), Backscatter 1 There is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T033405_20201108T034741_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T035213_20201108T035749_D001 Height Error (Retracker 2), Backscatter 1) There is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T035758_20201108T035840_D001 Height Error (Retracker 2), Surface model Unavailable There is a height and backscatter error for Retracker 2 Slope Model was used for the location of one or more	
CS_OFFL_SIR_LRM_220201108T042315_20201108T045651_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T051556_20201108T051921_D001 Height Error (Retracker 2), Backscatter 1) There is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T052559_20201108T052743_D001 Height Error (Retracker 2), Height Error (Retracker 3), Height Error (Retracker 2), Height Error (Retracker 3), He	2 and a height error
CS_OFFL_SIR_LRM_220201108T053648_20201108T053931_D001 Height Error (Retracker 2), Backscatter 1 There is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T054628_20201108T055034_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T060150_20201108T061201_D001 Height Error (Retracker 2), Surface model unavailable There is a height and backscatter error for Retracker 2 Slope Model was used for the location of one or more	
CS_OFFL_SIR_LRM_220201108T061447_20201108T063603_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T070511_20201108T071228_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T071324_20201108T071730_D001 Height Error (Retracker 2), He	2 and a height error
CS_OFFL_SIR_LRM_2_20201108T073933_20201108T074821_D001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable Retracker 3 and no DEM or Slope Model was used for or more records	
CS_OFFL_SIR_LRM_220201108T074910_20201108T081503_D001 Height Error (Retracker 2), Backscatter) There is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T083401_20201108T084632_D001 Height Error (Retracker 2), Backscatter 1), Backscatter is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T084654_20201108T090418_D001 Height Error (Retracker 2), Backscatter) There is a height and backscatter error for Retracker 2 records	2 for one or more
CS_OFFL_SIR_LRM_220201108T091852_20201108T091905_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of c	one or more records

CS_OFFL_SIR_LRM_220201108T091917_20201108T091941_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFTE_SIK_EKW_Z202011001091917_202011001091941_D001		
CS_OFFL_SIR_LRM_220201108T092156_20201108T092427_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_220201108T092542_20201108T093722_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_220201108T093926_20201108T095434_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_220201108T101106_20201108T101909_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_220201108T102759_20201108T104415_D001		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_220201108T111851_20201108T113309_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_220201108T114846_20201108T122225_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_220201108T123537_20201108T124255_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201108T124914_20201108T131010_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_220201108T132757_20201108T135355_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_220201108T142321_20201108T145114_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_220201108T150822_20201108T154116_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_220201108T155333_20201108T155557_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_220201108T160308_20201108T160415_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_220201108T160554_20201108T160732_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_220201108T164733_20201108T172055_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_220201108T173313_20201108T173431_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_220201108T175237_20201108T180826_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_220201108T182606_20201108T190030_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_220201108T191308_20201108T191333_D001	Height Error (Retracker 3), Surface model unavailable	There is a height error (Retracker 3) and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201108T192349_20201108T192823_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_220201108T192905_20201108T194644_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_220201108T200547_20201108T201918_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_220201108T202039_20201108T202237_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_220201108T202718_20201108T203853_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_220201108T204038_20201108T204145_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201108T205414_20201108T211154_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_220201108T211331_20201108T212739_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_220201108T214431_20201108T215919_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_220201108T220147_20201108T221110_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_220201108T223401_20201108T225012_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_220201108T225618_20201108T230255_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_220201108T232428_20201108T233903_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	191	191	191	0	0
SIR_SAR_1B	110	110	110	0	0
SIR_SIN_1B	106	106	106	0	0
SIR_LRM_2	187	187	179	8	0
SIR_SAR_2	106	108	108	0	0
SIR_SIN_2	108	106	104	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	-	-	-	-
SIR_GDR_2_	15	15	15	15	15	15	15	-			

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

6.2 QCC Warnings

Number of QCC reports with warnings

10

Total number of occurrences of each warning

					3		
Product Ty	pe AXDME	AXSMMEOCI	-	-	-	-	-
SIR_LRM_2	2_ 0	8					
SIR_SIN_2	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