

IDEAS+ Daily Report for OFFLINE data:

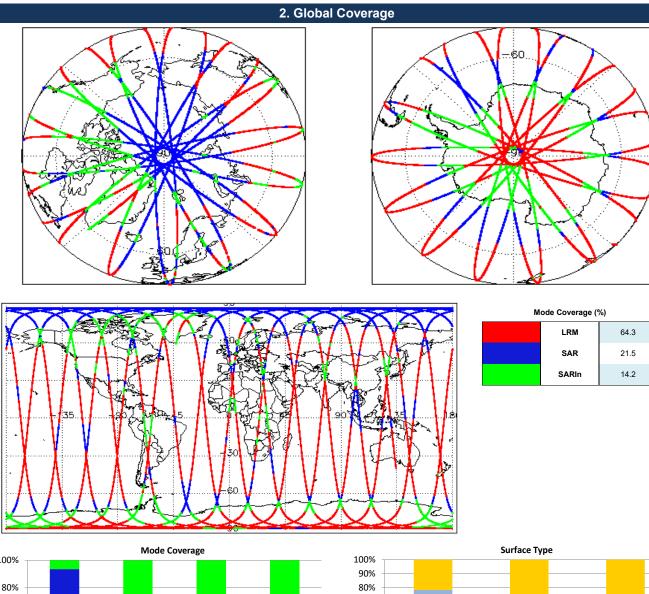
23/05/2019

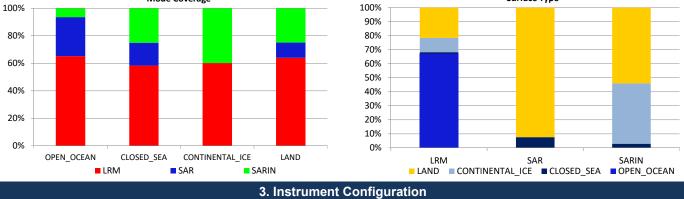


1. Overview

Penart Braduction Data	20-Jun-2019	Check	Status
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Flocessol Useu.		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Oseu.		Product Header Analysis	See Section 5.2
•		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

Mission / Instrument News			
22-May-2019	None		
23-May-2019	None		
24-May-2019	Nothing planned		





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

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

Number of products with errors:

4.3 Star Tracker Usage Check

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

0

Number of products with errors:

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.

CS_OFFL_SIR_LRM_1B_20190523T131318_20190523T131657_D001

CS_OFFL_SIR_LRM_1B_20190523T131700_20190523T131702_D001

91

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20190522T235257_20190523T000824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T001026_20190523T001948_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T002320_20190523T003009_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T004633_20190523T005904_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T010345_20190523T010614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T010617_20190523T011222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T015543_20190523T015653_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190523T015847 20190523T015941 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190523T015954 20190523T020017 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T020021_20190523T020539_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190523T020543 20190523T020953 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190523T022521 20190523T022919 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T022922_20190523T023110_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T023355_20190523T025733_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_201905231020303_201905231020703_0001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_201905231030035_201905231030901_0001 CS_OFFL_SIR_LRM_1B_20190523T031211_20190523T033713_D001		The tracking echo is missing for one or more records
	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T034049_20190523T034522_D001	Loss of echo	
CS_OFFL_SIR_LRM_1B_20190523T040227_20190523T040619_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T040826_20190523T040903_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T040906_20190523T040940_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T040942_20190523T041032_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T041035_20190523T041943_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T045100_20190523T051714_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T051717_20190523T051758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T051803_20190523T052012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T052100_20190523T052222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T052255_20190523T052541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T064026_20190523T064434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T065003_20190523T065551_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T065841_20190523T065912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T065931_20190523T070240_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T072055_20190523T075430_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T083044_20190523T083632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T083752_20190523T083809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T083821_20190523T083838_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T083843_20190523T083958_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T085959_20190523T092812_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190523T092823 20190523T093314 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T094107_20190523T094522_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T103619_20190523T103757_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T105515_20190523T105735_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190523T105740 20190523T111240 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190523T113111 20190523T114335 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_2019052311121526_20190523114335_D001	Loss of echo	
		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T122449_20190523T123434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T123636_20190523T125129_D001	Loss of echo	The tracking echo is missing for one or more records

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

C2, OFT., SPL, UM, 19, 20190237119728, 2001 Loss of exha The tacking exh is meany for one or more encode C3, OFT., SPL, UM, 19, 20190237119184, 2019237119184, 2001 Loss of exha The tacking exh is meany for one or more encode C3, OFT., SPL, UM, 19, 20190237119184, 2019237119184, 201921 Loss of exha The tacking exh is meany for one or more encode C3, OFT., SPL, UM, 19, 20190237119284, 2019237119380, 201912 Loss of exha The tacking exh is meany for one or more encode C3, OFT., SPL, UM, 19, 20190237119284, 2019237119380, 201912 Loss of exha The tacking exh is meany for one or more encode C3, OFT., SPL, UM, 19, 20190237119381, 2019237119480, 2019237119480, 2019237119480, 2019237119481, 2019237119481, 20192237119482, 2019237119482,			
C2, OFT_SRL_UNU_18_20193237113484_20193237113489_D001 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_2019323713492_2019323713480_D001 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_2019323713492_2019323714408_D001 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_2019323714408_2019323714408_D001 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_2019323714408_2019323714408_D001 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_20193237114408_20193237114408_D001 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_2019323711542_2019323711542_D0010 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_2019323711542_2019323711542_D0010 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_2019323711542_20193237115432_D0010 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_20193237115432_D0193237115432_D0101 Loss of exho The tracking exho is missing for one runne records C3, OFT_SRL_UNU_18_20193237115432_D0193237115432_D019327115532_D0101 Loss of exho The tracking exho is missing for one	CS_OFFL_SIR_LRM_1B_20190523T131704_20190523T131726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFTL_SRL_RAU_18_20190237115200_20190237113300_D001 Loss of exha The tracking exha is mixing for are or more records CS_OFFL_SRL_RAU_18_201902371140540_2019023711000_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237114005_20190237110078_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237114005_20190237110078_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237116078_00101 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237116078_0011 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_201902371151472_0190237115120_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237115182_01902371151820_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237115182_01902371151820_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237115182_0190237116040_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237116409_01900237117902_D001 Loss of exha The tracking exha is mixing for one or more records CS_OFFL_SRL_RAU_18_20190237117902_D001 Loss of exha The tracking exha is mixing for one or more records <t< td=""><td>CS_OFFL_SIR_LRM_1B_20190523T131730_20190523T131813_D001</td><td>Loss of echo</td><td>The tracking echo is missing for one or more records</td></t<>	CS_OFFL_SIR_LRM_1B_20190523T131730_20190523T131813_D001	Loss of echo	The tracking echo is missing for one or more records
C6. OFFL_SR_LEM_18_20190521135404_201905231135809_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_20190521145434_201905231145439_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231145436_201905231145439_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231145439_20190523115179_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231151639_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231151639_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231151639_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231164502_201905231164503_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231164502_20190523116503_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231164502_20190523116503_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_201905231164502_0190523116503_D001 Loss of exho The tracking exho is messing for one or more records C6. OFFL_SR_LEM_18_20190523116503_D0190 Loss of exho The tracking exho is messing for one or more records <	CS_OFFL_SIR_LRM_1B_20190523T131834_20190523T131859_D001	Loss of echo	The tracking echo is missing for one or more records
CD_GFL_SR_LRU_R0_10_201905231140343_00190523114073_0001 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523114073_0001 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523114073_0001 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523115075_001002 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523115075_00100201 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523115038_0010021 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523115038_0010022115040_0001 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523115038_0010022115038_0001 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523115038_0010001 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523117039_00100523117029_0010023117029_0010001 Loss of exho The tracking exho is missing for one or more reacted CD_GFL_SR_LRU_R0_10_20190523116353_0001 Loss of exho The tracking exho is missing for one or more reacted <td< td=""><td>CS_OFFL_SIR_LRM_1B_20190523T132503_20190523T133800_D001</td><td>Loss of echo</td><td>The tracking echo is missing for one or more records</td></td<>	CS_OFFL_SIR_LRM_1B_20190523T132503_20190523T133800_D001	Loss of echo	The tracking echo is missing for one or more records
C6. OFFL_SIR_LRM_16_201095237104332_20109523714003Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_16_20109523710575_2010952571575Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_16_20109523710575_2010952571575Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_16_20109523710575_20109525715752_20109525715752Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_16_20109523715752_20109525715752_201095257157532_D001Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_16_20109523715752_201095257157532_D001Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_16_201095237115752_201095257157532_D001Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_16_201095237117532_201095237117533_D001Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_18_201095237117532_201095237117532_D010523711532_D010523711532_D010523711532_D010523711532_D0105_Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_18_D010523711532_D010523711532_D0105_Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_LRM_18_D010523711532_D010523711532_D0105_Loss of exhaThe tracking exh is missing for one or more recordsC6. OFFL_SIR_L	CS_OFFL_SIR_LRM_1B_20190523T135404_20190523T135909_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LAM_16_2019023714384b_20190523715071_D01 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_16_D019023716752_019057110010 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_16_D01902371150802_0190523715140_D01 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_16_D01902371150802_01905237151802_D011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_16_D01902371150804_01905237150804_D011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_18_D01902371150804_01905237150804_D011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_18_D01902371150804_0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_18_D0190237117382_D01908237177382_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_18_D0190237117227_D019052717030_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_18_D0190237118704_D0190527116920_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_18_D0190237118704_D0190527116920_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_	CS_OFFL_SIR_LRM_1B_20190523T135943_20190523T140453_D001	Loss of echo	The tracking echo is missing for one or more records
CB_OFFL_SIR_LRM_1B_201905237144505_20190523715075_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_20190523715075_D0190523715078_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_20190523715078_D01905237155030_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_201905237153332_D01905237155330_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_201905237154362_D01905237155330_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_201905237154302_D01905237156334_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_201905237154302_D01905237157832_D011 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_201905237177950_D0190527117522_D01905207172227_D0190523717590_D011 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_D01905237163700_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_D0190523716520_D001 Loss of exha The tracking exh is missing for one or more records CB_OFFL_SIR_LRM_1B_D0190523716520_D010 Loss of exha The tracking exh is missing for one or more records CB_O	CS_OFFL_SIR_LRM_1B_20190523T140632_20190523T140738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20190231150755_201903231150759_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_201903231150752_01903231151032_0010 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_201903231150333_20190523115038_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523115434_20190523115034_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523115436_20190523115034_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523115035_20190523115054_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523117035_20190523117030_20101 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523117054_20190523117030_2001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523117054_20190523117030_2001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523117054_20190523117030_2001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20190523117054_20190523117030_2001 Loss of exho The tracking exho is missing for one or more records <t< td=""><td>CS_OFFL_SIR_LRM_1B_20190523T143848_20190523T144009_D001</td><td>Loss of echo</td><td>The tracking echo is missing for one or more records</td></t<>	CS_OFFL_SIR_LRM_1B_20190523T143848_20190523T144009_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20190523T175644_20190523T185015_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T185107_20190523T185029_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T185458_20190523T18540_D0190523T185400_D0190523T185400_D0190523T185458_20190523T190039_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T19026_20190523T190039_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T19025_20190523T190143_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191025_20190523T19141_D01902D011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191141_20190523T191546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T19179_20190523T193056_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203832_20190523T20386_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T20383_20190523T20385_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T20453_20190523T20385_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T20453_20190523T20458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21244_20190523T21458_D001Loss of echoThe tracking echo is missing	CS_OFFL_SIR_LRM_1B_20190523T171950_20190523T172222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T185107_20190523T185506_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T185740_20190523T185540_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T180520_20190523T190039_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T1900520_20190523T190039_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T19005271900523T190049_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T1910540_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191042_D010523T1910540_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191042_D010523T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T193143_20190523T19306_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203832_D010523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203838_D010523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T204558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T210403_20190523T210458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21041Loss of	CS_OFFL_SIR_LRM_1B_20190523T172227_20190523T175003_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T185458_20190523T185766_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T19026_20190523T190039_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T190252_20190523T19004Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T190557_20190523T19049_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T1910557_20190523T191049_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191141_20190523T191709_20190523T191056_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191709_20190523T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T20352_20190523T103056_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T204532_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T2104033_20190523T204558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21244_20190523T214055_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21244_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21645_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_S	CS_OFFL_SIR_LRM_1B_20190523T175644_20190523T180015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20190523T185740_20190523T185840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T190252_20190523T190141_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T190252_20190523T19141_20190523T19149_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T1910557_20190523T19146_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T191052_20190523T19144_20190523T191546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T1910252_20190523T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T192053_20190523T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T203632_20190523T203636_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T203632_20190523T203636_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T2104033_20190523T204558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T212424_20190523T212459_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T212424_20190523T215459_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20190523T2124152_20190523T215459_D001Loss of echoThe tracking echo is missing for one or more records<	CS_OFFL_SIR_LRM_1B_20190523T185107_20190523T185239_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T190022_00190523T190039_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T1905257_00190523T191049_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T1911141_20190523T191546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191141_20190523T191546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T1913143_20190523T19306_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203832_0190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203832_0190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203832_0190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T210453_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21405_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212424_0190523T214282_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212424_20190523T214545_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212424_20190523T214542_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T2164_D019523T214542_D0	CS_OFFL_SIR_LRM_1B_20190523T185458_20190523T185706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T190252Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T190557_20190523T191049_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191709_20190523T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T193143_20190523T193706_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203632_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203818_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T204538_D0101Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21111_20190523T211605_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212244_20190523T2124458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T215744_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T2332916_D001Lo	CS_OFFL_SIR_LRM_1B_20190523T185740_20190523T185840_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T190557_20190523T191049_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T19141_20190523T191546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T19109223T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T193143_20190523T193706_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203632_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203818_20190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T204033_20190523T204558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T211111_20190523T211605_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212424_20190523T212829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232018_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2019	CS_OFFL_SIR_LRM_1B_20190523T190026_20190523T190039_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T191141_20190523T191546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T191709_20190523T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T193143_20190523T193706_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203802_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203818_20190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T210333_20190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T211111_20190523T210558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21244_20190523T212244_20190523T212249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21282_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21282_20190523T21529_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21282_20190523T21529_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T215241_20190523T23151_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T23215_20190523T233216_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL	CS_OFFL_SIR_LRM_1B_20190523T190252_20190523T190413_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T191709_20190523T192053_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T193143_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203816_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203816_20190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T204033_20190523T204558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21111_20190523T21105_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212244_20190523T212829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21823_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21824_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232215_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232215_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232216_20190523T23351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2	CS_OFFL_SIR_LRM_1B_20190523T190557_20190523T191049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T193143_20190523T193706_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203632_20190523T203806_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203818_20190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T204033_20190523T204558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T2104033_20190523T214655_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21244_20190523T212629_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T2321545_20190523T23215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T23215_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233215_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233215_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233215_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_L	CS_OFFL_SIR_LRM_1B_20190523T191141_20190523T191546_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T203832_20190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T203818_20190523T203836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T204033_20190523T204558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T211111_20190523T211605_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T21244_20190523T212829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T215744_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T230218_20190523T231934_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232415_20190523T233151_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_	CS_OFFL_SIR_LRM_1B_20190523T191709_20190523T192053_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20190523T212244_20190523T212829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T215744_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T230218_20190523T231934_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232415_20190523T23916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233151_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T2329218_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T204033_20190523T204558_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T215744_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T230218_20190523T231934_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232415_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233151_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T211111_20190523T211605_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T215744_20190523T215927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T230218_20190523T231934_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232415_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233151_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T212244_20190523T212829_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T230218_20190523T231934_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232415_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233151_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T212832_20190523T215458_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T232415_20190523T232916_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233151_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T215744_20190523T215927_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T2332918_20190523T233151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T230218_20190523T231934_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T232415_20190523T232916_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T232918_20190523T233151_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20190523T233227_20190523T233420_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190523T233828_20190523T233836_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20190523T233521_20190523T233826_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20190523T233828_20190523T233836_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: 0

4.6 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descript	ors 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 measurement record. The bit value of this flag indicates any problems when set. 0

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).

0

0

54

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220190522T235257_20190523T000824_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_220190523T001026_20190523T001948_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_220190523T004633_20190523T005904_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_220190523T015954_20190523T020017_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190523T020021_20190523T020539_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190523T022922_20190523T023110_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_220190523T023355_20190523T025733_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_220190523T031211_20190523T033713_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_220190523T034645_20190523T034722_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_220190523T041035_20190523T041943_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_220190523T042516_20190523T043620_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_220190523T045100_20190523T051714_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_220190523T054315_20190523T055857_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_220190523T070643_20190523T070745_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_220190523T072055_20190523T075430_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_220190523T080916_20190523T082740_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_220190523T085959_20190523T092812_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_220190523T092823_20190523T093314_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_220190523T094906_20190523T102346_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_220190523T103931_20190523T105112_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_2_20190523T105515_20190523T105735_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_220190523T105740_20190523T111240_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_220190523T113111_20190523T114335_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20190523T114517_20190523T120219_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_220190523T121526_20190523T122101_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190523T122449_20190523T123434_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_220190523T123636_20190523T125129_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_220190523T130706_20190523T131050_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_220190523T132503_20190523T133800_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_220190523T135943_20190523T140453_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190523T141514_20190523T143036_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_220190523T144505_20190523T150751_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_220190523T150802_20190523T151143_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_220190523T154436_20190523T160954_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_220190523T162429_20190523T163543_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_220190523T164116_20190523T165110_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_220190523T165500_20190523T165544_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_220190523T171359_20190523T171938_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190523T172227_20190523T175003_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_220190523T180409_20190523T183808_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_220190523T185107_20190523T185239_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_220190523T191709_20190523T192053_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_220190523T192651_20190523T192840_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_220190523T193143_20190523T193706_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190523T194336_20190523T200515_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_220190523T200801_20190523T201650_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_220190523T202944_20190523T203309_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_220190523T205553_20190523T210726_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_220190523T212244_20190523T212829_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_220190523T212832_20190523T215458_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_220190523T221639_20190523T224342_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_220190523T230218_20190523T231934_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_220190523T232415_20190523T232916_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_220190523T232918_20190523T233151_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