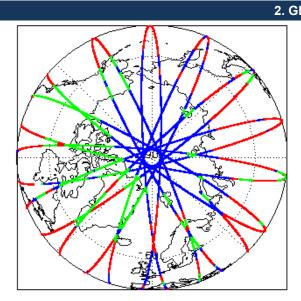


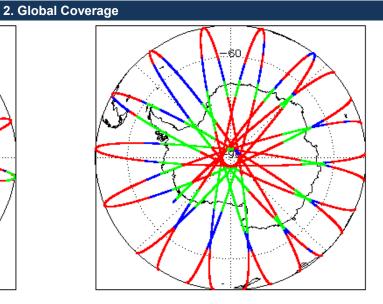
# **QA4EO Daily Report for OFFLINE data:**

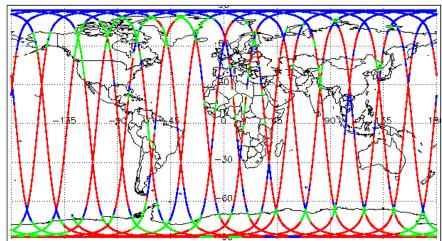
<u>15/05/2020</u>

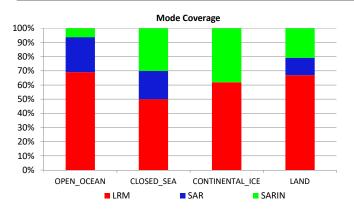
1. Overview			
Report Production Date:	16-Jun-2020	Check Server check: science-pds.cryosat.esa.int	Status Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data Product Format Check Product Header Analysis	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

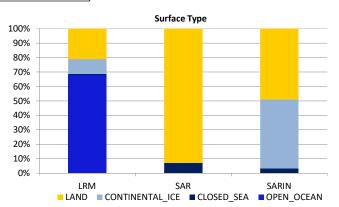
Mission / Instrument News		
14-May-2020	SIRAL unavailability on 14-May-2020 from 15:39:01 to 16:37:10 due to a planned orbit manoeuvre.	
15-May-2020	None	
16-May-2020	Nothing planned	











### Mode Coverage (%)

LRM	67.7
SAR	19.2
SARIn	13.1

# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

# 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:

#### 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.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200515T000212_20200515T000541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T000614_20200515T000824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T000828_20200515T000913_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T000916_20200515T001648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T001650_20200515T002845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T004007_20200515T004805_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T014007_20200515T014041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T014359_20200515T014654_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T014706_20200515T014803_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T015101_20200515T015154_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T015337_20200515T015347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T015349_20200515T015350_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T015353_20200515T015519_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T015704_20200515T015939_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T020029_20200515T020401_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T030637_20200515T030637_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T030643_20200515T030659_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T030702_20200515T030703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T030707_20200515T030728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T032640_20200515T032820_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T032851_20200515T032933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T032936_20200515T033352_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T033556_20200515T034159_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T041056_20200515T044030_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T044510_20200515T044513_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T044515_20200515T044548_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T044552_20200515T044721_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T054107_20200515T054302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T054510_20200515T054805_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T055422_20200515T061641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T062054_20200515T062708_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T064007_20200515T065607_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T065851_20200515T070120_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T070204_20200515T070212_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T070214_20200515T070753_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T071943_20200515T072220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T075240_20200515T075955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T075957_20200515T080046_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T080055_20200515T080705_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T082221_20200515T082812_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200515T083055_20200515T085436_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_1B_20200515T090856_20200515T093230_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T093237_20200515T093317_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T093554_20200515T093650_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T093816_20200515T094221_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T095714_20200515T095807_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T095929_20200515T100709_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T100712_20200515T103325_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T104813_20200515T111545_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T111547_20200515T112255_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T123516_20200515T124409_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T124508_20200515T125003_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T125109_20200515T125235_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T125425_20200515T125525_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T125703_20200515T130020_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T131732_20200515T132823_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T132826_20200515T132827_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T132832_20200515T135117_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T141957_20200515T142422_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T142525_20200515T142909_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T143052_20200515T143337_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T143606_20200515T143734_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T150857_20200515T153024_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T163344_20200515T163401_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T163403_20200515T163408_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T163410_20200515T163439_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T164317_20200515T170941_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T171724_20200515T171948_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T172808_20200515T174035_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T181221_20200515T181354_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T181356_20200515T181540_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T181636_20200515T181706_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T181708_20200515T181821_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T182203_20200515T183132_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T183336_20200515T184834_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T190459_20200515T191722_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T192202_20200515T193345_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T193619_20200515T193738_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T195100_20200515T195518_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T195609_20200515T195628_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T195631_20200515T195656_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T195658_20200515T200441_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T203554_20200515T203706_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T204213_20200515T210832_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T210935_20200515T211615_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T212954_20200515T213632_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T213651_20200515T213658_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T213701_20200515T213719_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T213850_20200515T213948_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T214225_20200515T220317_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T222122_20200515T224919_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T231051_20200515T231617_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T231723_20200515T231955_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T231957_20200515T232118_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T232122_20200515T234704_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200515T235350_20200515T235719_D001	Loss of echo
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# 4.5 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing. 0

Number of products with errors:

# 4.6 L1B Auxilary Data File Usage Check

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

0

4.7 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag (field 54) for each measuremen	nt record. The bit value of this flag indicates	any problems when set.	
Number of products with errors: 0			
4.8 L1B Measurement Confidence Data Check			
CryoSat L1B data includes a measurement confidence flag (field 18) for each me	easurement record. The bit value of this fla	g indicates any problems when set.	
Currently, there are several common error flags raised in the Level 1B prod	ducts which are expected due to operati	onal 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 record	ts 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 applicati	on is deactivated, but this is in line with the current configuration.	
Number of products with errors: 1			
Product	Test Failed	Description The tracking echo has returned an error and the Rx1 Echo Error flag is set,	
CS_OFFL_SIR_LRM_1B_20200515T082221_20200515T082812_D001	Echo error, TRK echo error	indicating a degraded echo	
5.	Level 2 Data Quality Che	ck	
5.1 L2 Product Format Check			
Each product, retrieved and unpacked from the science server, is checked to en	sure it consists of both an XML boader file	(HDR) and a product file (DRI )	
Number of products with errors: 0			
5.2 L2 Product Header Analysis			
For all products, a series of pre-defined checks are carried out on the MPH and	SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain.	
Number of products with errors: 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: 0			
5.5 L2 Measurement Quality Flag Check			
	word. The hit value of this flag indicates an	v problems when set	
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: 53			
Product	Test Failed	Description	
CS_OFFL_SIR_LRM_220200515T000916_20200515T001648_D001	Height Error (Retracker 2), Backscatte Error (Retracker 2)	r There is a height and backscatter error for Retracker 2 for one or more records	
	Height Error (Potropkor 2) Height Erro	-	

C3_011E_31(_L1(M_2202003131000410_202003131001040_D001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220200515T001650_20200515T002845_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_220200515T005152_20200515T012512_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_220200515T020657_20200515T021639_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_220200515T023127_20200515T025305_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_220200515T025550_20200515T030519_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_220200515T030643_20200515T030659_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_220200515T031639_20200515T032108_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_220200515T033556_20200515T034159_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_220200515T034347_20200515T035443_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_220200515T041056_20200515T044030_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_220200515T044139_20200515T044348_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_220200515T045954_20200515T050658_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_220200515T050712_20200515T053131_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_220200515T055422_20200515T061641_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_220200515T061655_20200515T061828_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_220200515T064007_20200515T065607_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_220200515T070214_20200515T070753_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_220200515T072938_20200515T074352_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_220200515T074531_20200515T074814_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_220200515T075957_20200515T080046_D001	(Retracker 2) Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200515T082221_20200515T082812_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_220200515T083055_20200515T085436_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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_220200515T090856_20200515T093230_D001	(Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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_220200515T100712_20200515T103325_D001	(Retracker 2) 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_220200515T104813_20200515T111545_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_220200515T111547_20200515T112255_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200515T114100_20200515T121237_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_220200515T122628_20200515T123233_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_220200515T122628_20200515T123233_D001 CS_OFFL_SIR_LRM_220200515T123516_20200515T124409_D001	<b>o</b>	
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CS_OFFL_SIR_LRM_220200515T123516_20200515T124409_D001 CS_OFFL_SIR_LRM_220200515T131732_20200515T132823_D001 CS_OFFL_SIR_LRM_220200515T132832_20200515T132817_D001 CS_OFFL_SIR_LRM_220200515T140614_20200515T140805_D001 CS_OFFL_SIR_LRM_220200515T141957_20200515T142422_D001 CS_OFFL_SIR_LRM_220200515T145721_20200515T142422_D001 CS_OFFL_SIR_LRM_220200515T150857_20200515T150611_D001 CS_OFFL_SIR_LRM_220200515T150857_20200515T160633_D001 CS_OFFL_SIR_LRM_220200515T160722_20200515T160633_D001 CS_OFFL_SIR_LRM_220200515T161520_20200515T161147_D001 CS_OFFL_SIR_LRM_220200515T161520_20200515T162021_D001 CS_OFFL_SIR_LRM_220200515T164317_20200515T164138_D001 CS_OFFL_SIR_LRM_220200515T164317_20200515T170941_D001 CS_OFFL_SIR_LRM_220200515T172808_20200515T174035_D001 CS_OFFL_SIR_LRM_220200515T174125_20200515T175821_D001	<ul> <li>Error (Retracker 2)</li> <li>Height Error (Retracker 2), Backscatter Error (Retracker 2)</li> <li>Height Error (Retracker 2), Backscatter Error (Retracker 2)</li> <li>Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)</li> <li>Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2)</li> <li>Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error</li> </ul>	records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records 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 There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height

CS_OFFL_SIR_LRM_220200515T190459_20200515T191722_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_220200515T192202_20200515T193345_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_220200515T193619_20200515T193738_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200515T201257_20200515T202745_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_220200515T204213_20200515T210832_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_220200515T214225_20200515T220317_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_220200515T222122_20200515T224919_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_220200515T232122_20200515T234704_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