

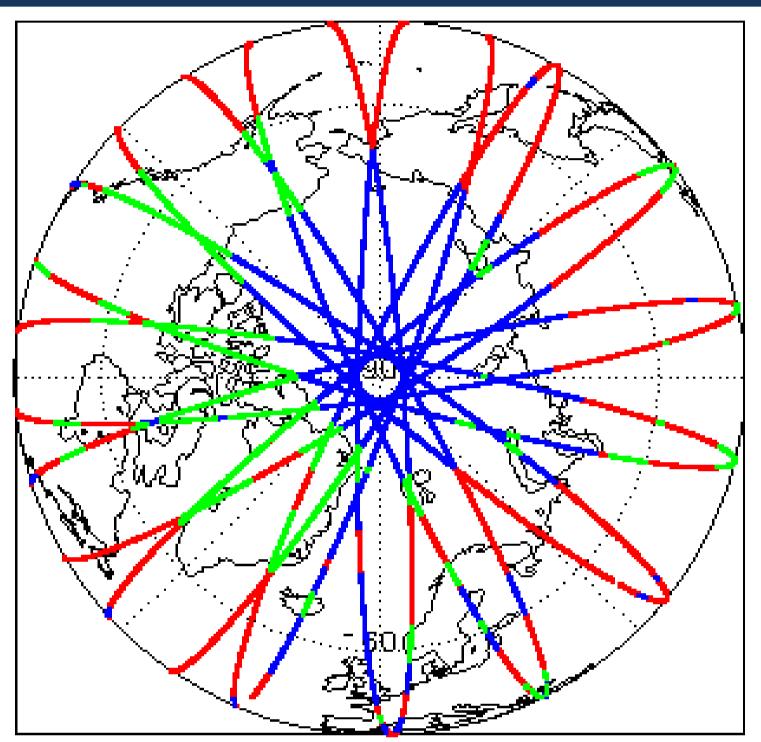


1. Overview

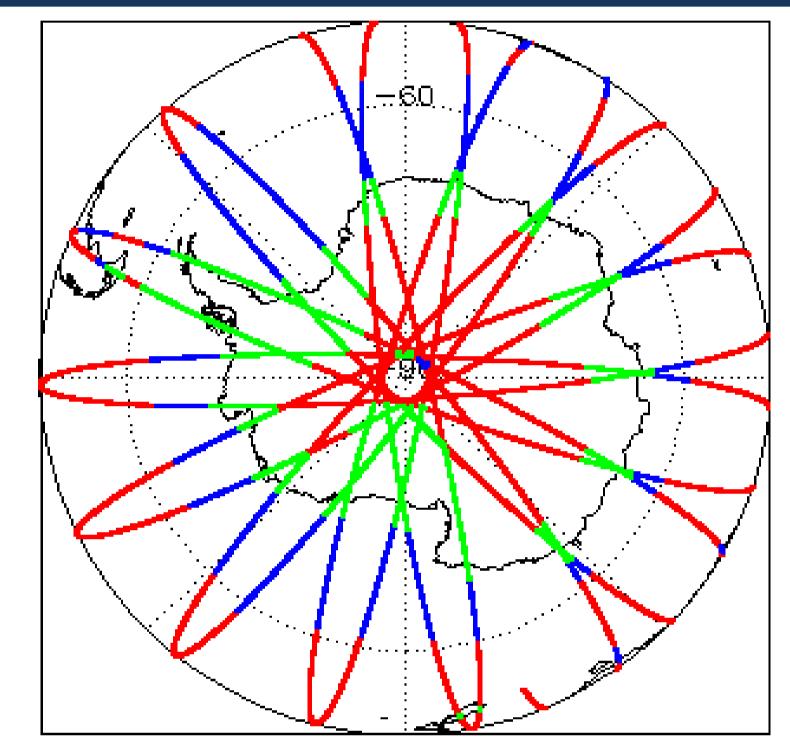
Report Production Date:	16-Sep-2020	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

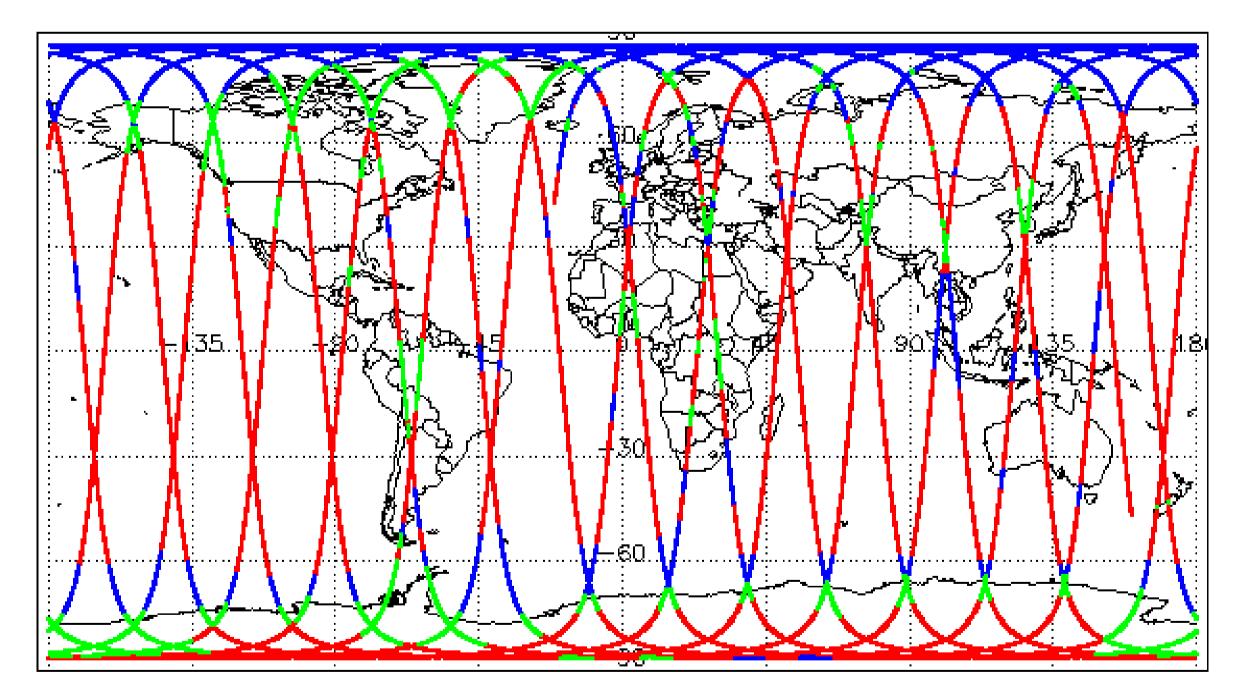
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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
15-Aug-2020	None
16-Aug-2020	None
17-Aug-2020	Nothing planned



2. Global Coverage

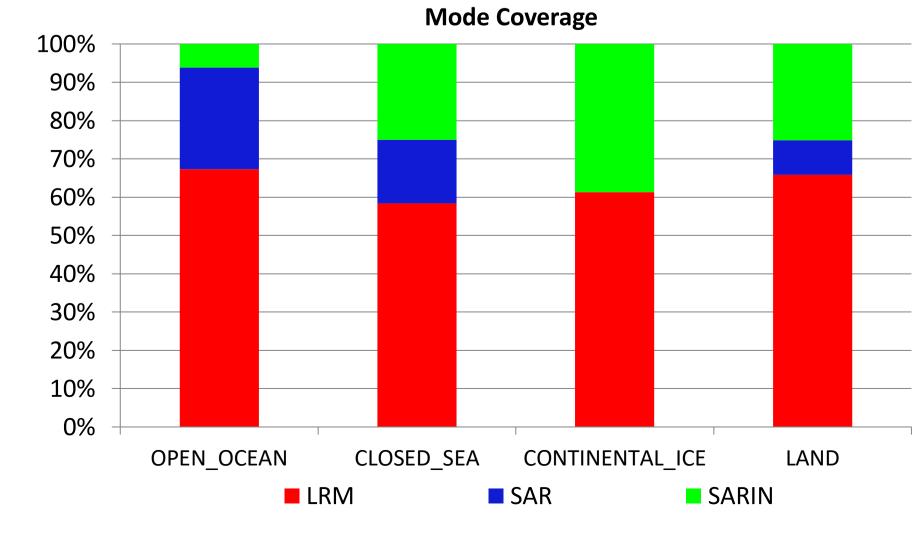


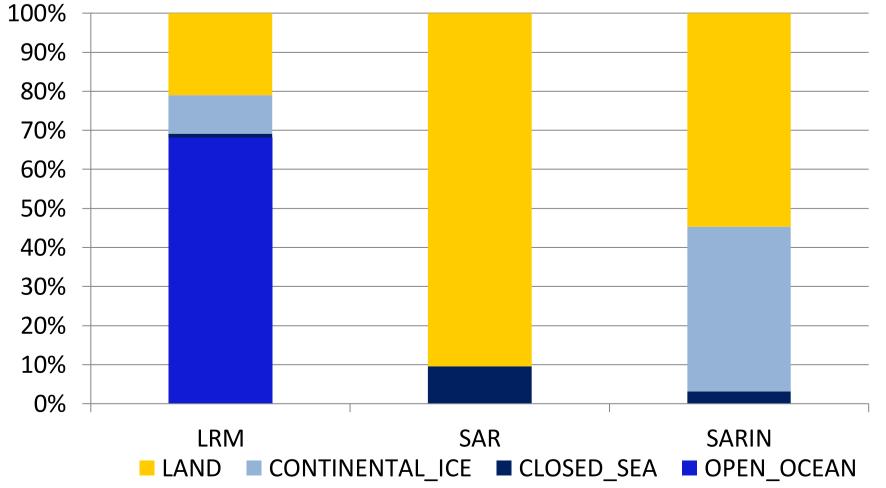




LRM	66.2
SAR	19.9
SARIn	13.9

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 Chec	;k			
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.				

Number of products with errors:

97

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200815T235539_20200816T003033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200816T003035_20200816T003134_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200816T010311_20200816T011625_D001 CS_OFFL_SIR_LRM_1B_20200816T012510_20200816T012707_D001 CS_OFFL_SIR_LRM_1B_20200816T013437_20200816T014930_D001 CS_OFFL_SIR_LRM_1B_20200816T020421_20200816T021106_D001 CS_OFFL_SIR_LRM_1B_20200816T022307_20200816T024013_D001 CS_OFFL_SIR_LRM_1B_20200816T024536_20200816T024614_D001 CS_OFFL_SIR_LRM_1B_20200816T024619_20200816T024728_D001 CS_OFFL_SIR_LRM_1B_20200816T024749_20200816T024750_D001 CS_OFFL_SIR_LRM_1B_20200816T024753_20200816T024800_D001 CS_OFFL_SIR_LRM_1B_20200816T024804_20200816T024847_D001 CS_OFFL_SIR_LRM_1B_20200816T024857_20200816T025440_D001 CS_OFFL_SIR_LRM_1B_20200816T030332_20200816T030633_D001 CS_OFFL_SIR_LRM_1B_20200816T033650_20200816T033757_D001 CS_OFFL_SIR_LRM_1B_20200816T034016_20200816T034039_D001 CS_OFFL_SIR_LRM_1B_20200816T034105_20200816T034312_D001 CS_OFFL_SIR_LRM_1B_20200816T034314_20200816T034646_D001 CS_OFFL_SIR_LRM_1B_20200816T034650_20200816T035059_D001 CS_OFFL_SIR_LRM_1B_20200816T040630_20200816T041034_D001 CS_OFFL_SIR_LRM_1B_20200816T041038_20200816T041341_D001 CS_OFFL_SIR_LRM_1B_20200816T041504_20200816T043802_D001 CS_OFFL_SIR_LRM_1B_20200816T044145_20200816T045011_D001 CS_OFFL_SIR_LRM_1B_20200816T045355_20200816T051829_D001 CS_OFFL_SIR_LRM_1B_20200816T052157_20200816T052157_D001 CS_OFFL_SIR_LRM_1B_20200816T052159_20200816T052630_D001 CS_OFFL_SIR_LRM_1B_20200816T054336_20200816T054716_D001 CS_OFFL_SIR_LRM_1B_20200816T054718_20200816T054719_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_20200816T055925_20200816T055025_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T055025_20200816T055045_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T055049_20200816T055046_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T055049_20200816T055104_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T055107_20200816T065112_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T063312_20200816T065911_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T065915_20200816T070119_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T070205_20200816T070333_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T070407_20200816T071103_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T082127_20200816T082545_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T082920_20200816T082936_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T083059_02020816T083704_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T083059_02020816T083704_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM	CS_OF	FL_SIR_LRM_1B_20200816T054722_20200816T054725_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200816T082127_20200816T082545_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200816T082920_20200816T082936_D001Loss of echoThe tracking echo is missing for one or more records	CS_OF	FL_SIR_LRM_1B_20200816T070205_20200816T070333_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OF	FL_SIR_LRM_1B_20200816T082127_20200816T082545_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200816T083059_20200816T083704_D001 Loss of echo The tracking echo is missing for one or more records	CS_OF	FL_SIR_LRM_1B_20200816T082920_20200816T082936_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OF	FL_SIR_LRM_1B_20200816T083059_20200816T083704_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200816T083951_20200816T084024_D001
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CS_OFFL_SIR_LRM_1B_20200816T154752_20200816T154855_D001
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CS_OFFL_SIR_LRM_1B_20200816T185416_20200816T190054_D001
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CS_OFFL_SIR_LRM_1B_20200816T222157_20200816T222718_D001

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CS_OFFL_SIR_LRM_1B_20200816T222157_20200816T222718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200816T225236_20200816T225728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200816T230443_20200816T230946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200816T230956_20200816T233704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200816T233706_20200816T234051_D001	Loss of echo	The tracking echo is missing for one or more records

Loss of echo

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 Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:



4.7 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

0

1

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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200816T233706_20200816T234051_D001	IECDO ERIOR I RK ECDO ERIOR	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Leve	2 Data	Quality	/ Check

5.1 L2 Product Format Check

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

Number of products with errors:

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:

0

0

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

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:

62

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200815T235539_20200816T003033_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_220200816T003035_20200816T003134_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200816T004312_20200816T010232_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_220200816T010311_20200816T011625_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_220200816T013437_20200816T014930_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_220200816T015133_20200816T020054_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_220200816T022307_20200816T024013_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_220200816T031408_20200816T032801_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_220200816T034105_20200816T034312_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

DUIL 101/102/2ACCOUNT OF LODGE 2010 DECEMPTION 1011Page 17/102 For ParticularPage 17/102 For ParticularCR. OPPL, BRLEND, LACOUNT OF DECEMPTION 2010Reg 17/102 For ParticularSee 30.Total 34 KBA and based are with an information 2010 or 2011	CS_OFFL_SIR_LRM_220200816T040228_20200816T040506_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
Cale Control (Cale Co	CS_OFFL_SIR_LRM_220200816T041038_20200816T041341_D001		C C
Sch Off, Die UW 2. Activity Diese	CS_OFFL_SIR_LRM_220200816T041504_20200816T043802_D001		
DB: CPFL BR. LBM 2 Sector Entropy State Stat	CS_OFFL_SIR_LRM_220200816T045355_20200816T051829_D001		
Colore Calculate Calculation in Colore Calculation in Colore Calculation in Colore Calculation	CS_OFFL_SIR_LRM_220200816T052159_20200816T052630_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CCUT Control Provide reack of the provide control Provide reack of the provide control of the provide c	CS_OFFL_SIR_LRM_220200816T052753_20200816T052824_D001		
CB: OPE SM: LMM 2 202000101100011 Implicit register registe	CS_OFFL_SIR_LRM_220200816T055107_20200816T061712_D001		
CS_UTL_ST_UTL_ST_UTL_ST_UTL_STATUS Frid (KROWER 7) From K CS_UTL_ST_UTL_ST_UTL_STATUS FROM KERNER 2), Status From K CS_UTL_ST_UTL_ST_UTL_STATUS FROM KERNER 2), Status From K CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_STATUS From KERNER 2), Status From KERNER 2), Status CS_UTL_ST_UTL_STATUS From KERN	CS_OFFL_SIR_LRM_220200816T063312_20200816T065911_D001	(Retracker 3), Backscatter Error	
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CB_OFT_SIR_LENK_2_200001r0700012 202001r07100505_D001 Brender 32	CS_OFFL_SIR_LRM_220200816T072419_20200816T075442_D001		
Corr L SR LRM 2_20006161110364_20006161110303_D001 Euro (Restance 2) results CS_OFFL_SR_LRM_2_20006161110364_20006161110303_D001 Peripti Enro (Restance 2). Height Enro There is a height and backstater enror for Restance 2 and a height enror CS_OFFL_SR_LRM_2_2000616111037_20006161110037_D00001 Peripti Enro (Restance 2). Height Enro There is a height and backstater enror for Restance 2 and a height enror CS_OFFL_SR_LRM_2_2000616111037_20006161110303_D001 Peripti Enro (Restance 2). Eachstater Enro There is a height and backstater enror for Restance 2 for one or more records. CS_OFFL_SR_LRM_2_2000616111037_20006161112030_D001 Height Enro (Restance 2). Eachstate There is a height and backstater enror for Restance 2 for one or more records. CS_OFFL_SR_LRM_2_2000616112030_D001 Height Enro (Restance 2). Eachstate There is a height and backstater enror for Restance 2 for one or more ecosts. CS_OFFL_SR_LRM_2_2000616112030_D001 Height Enro (Restance 2). Eachstate There is a height and backstater enror for Restance 2 for one or more ecosts. CS_OFFL_SR_LRM_2_2000616112030_D001 Height Enro (Restance 2). Eachstate There is a height and backstater enror for Restance 2 for one or more ecosts. CS_OFFL_SR_LRM_2_2000616112030_D001 Height Enro (Restance 2). Eachstate There is a height and backstater enror for Restance 2 for one or more ecosts. CS_OFFL_SR_LRM_2_20006161120300_D001 Height Enro (Restance 2). Eachstate	CS_OFFL_SIR_LRM_220200816T090212_20200816T093504_D001	(Retracker 3), Backscatter Error	
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CS_OFFL_SR_LEM_2_20200916T112637_20200916T112603_0001 Height End (Retracker 2) in an engine and (Retracker 2) end on the end of th	CS_OFFL_SIR_LRM_220200816T103854_20200816T110933_D001	(Retracker 3), Backscatter Error	
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CS_OFFL_SIR_LRM_2_20200816T123648_20200816T132450_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20200816T131228_20200816T132450_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20200816T132639_20200816T133519_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20200816T133646_20200816T134355_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20200816T140621_20200816T144355_D001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Ba	CS_OFFL_SIR_LRM_220200816T123820_20200816T123841_D001		
CS_OFFL_SIR_LRM_2_202008161131228_202008161132430_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_202008161132639_202008161133519_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_202008161133646_202008161134355_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_202008161140621_202008161144555_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_202008161141754_202008161142510_D001 Height Error (Retracker 2), Height Error (Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_202008161141754_202008161142510_D001 Height Error (Retracker 2), Height Error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_202008161145945_202008161142510_D001 Height Error (Retracker 2), Height Error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_202008161145945_202008161150016_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_202008161150016_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220200816T123848_20200816T124707_D001	C	
CS_OFFL_SIR_LRM_2_202008161132639_202008161133519_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_202008161133646_202008161134355_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_202008161140621_202008161141551_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Error Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 and a height error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_202008161145945_202008161150016_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_202008161151612 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220200816T131228_20200816T132450_D001		
CS_OFFL_SIR_LRM_2_202008161133646_202008161134355_D001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20200816T140621_20200816T141551_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2)	CS_OFFL_SIR_LRM_220200816T132639_20200816T133519_D001	G	
CS_OFFL_SIR_LRM_2_20200816T140621_20200816T141551_D001 (Retracker 3), Backscatter Error (Retracker 2) Intere is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LRM_2_20200816T141754_20200816T142510_D001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LRM_2_20200816T145945_20200816T150016_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20200816T150619_20200816T151432_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220200816T133646_20200816T134355_D001	G	
CS_OFFL_SIR_LRM_2_20200816T141754_20200816T142510_D001 (Retracker 3), Backscatter Error (Retracker 2) and a neight error for Retracker 2 for one or more error fo	CS_OFFL_SIR_LRM_220200816T140621_20200816T141551_D001	(Retracker 3), Backscatter Error	-
CS_OFEL_SIR_LRM_2_20200816T150619_20200816T151432_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220200816T141754_20200816T142510_D001	(Retracker 3), Backscatter Error	
	CS_OFFL_SIR_LRM_220200816T145945_20200816T150016_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
	CS_OFFL_SIR_LRM_220200816T150619_20200816T151432_D001		

CS_OFFL_SIR_LRM_220200816T151602_20200816T151915_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_220200816T152038_20200816T152300_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_220200816T154056_20200816T154121_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200816T154301_20200816T154554_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200816T155619_20200816T161121_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_220200816T162713_20200816T170036_D001		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_220200816T171500_20200816T171751_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_220200816T172548_20200816T175023_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_220200816T180609_20200816T183228_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_220200816T183423_20200816T183502_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_220200816T183511_20200816T183710_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_220200816T185416_20200816T190054_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_220200816T190423_20200816T192944_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_220200816T194631_20200816T201924_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_220200816T203055_20200816T203440_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_220200816T212534_20200816T214635_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_220200816T214921_20200816T220048_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_220200816T221034_20200816T221434_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_220200816T223038_20200816T223528_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_220200816T223716_20200816T224723_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_220200816T230443_20200816T230946_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_220200816T230956_20200816T233704_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_220200816T233706_20200816T234051_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_220200816T235130_20200816T235153_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_220200816T235651_20200817T000038_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	157	157	157	0	0
SIR_SAR_1B	96	96	96	0	0
SIR_SIN_1B	111	111	111	0	0
SIR_LRM_2	157	157	152	5	0

SIR_SAR_2	111	96	96	0	0
SIR_SIN_2	96	111	109	2	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

15

F	Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
	SIR_GDR_2_	15	15	15	15	15	15	15	-			

Test Description Ke	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

8

1

Total number of occurrences of each warning Product Type AXDME AXSMMEOCI SIR_GDR_2_ 0 1 Image: Colspan="5">Image: Colspan=15 SIR_GDR_2_ 0 1 Image: Colspan=15 Image: Colspan=1

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

Product name

CS_OFFL_SIR_GDR_2_20200816T232142_20200817T010057_D002