

<u>19/04/2020</u>



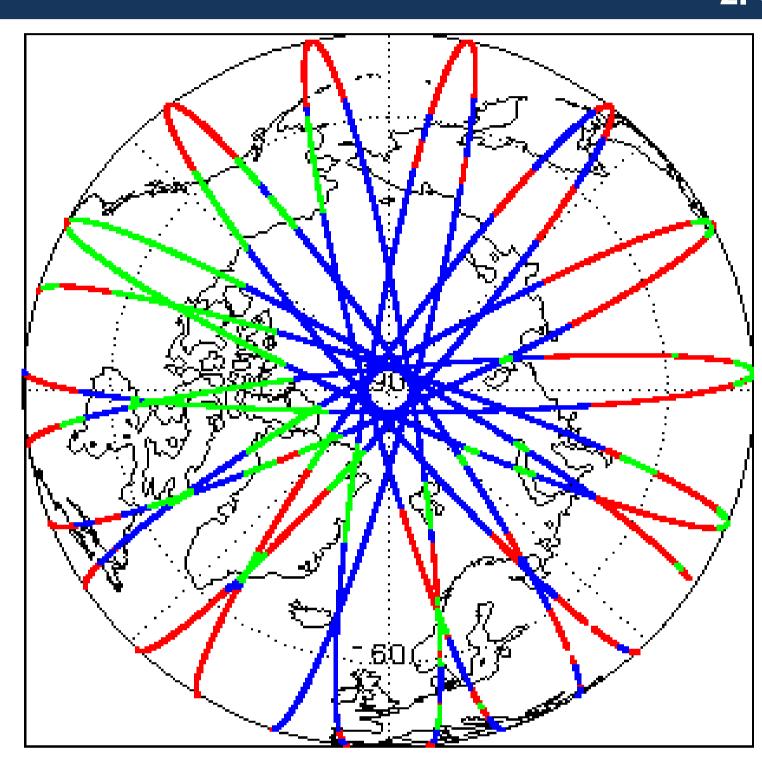
1. Overview

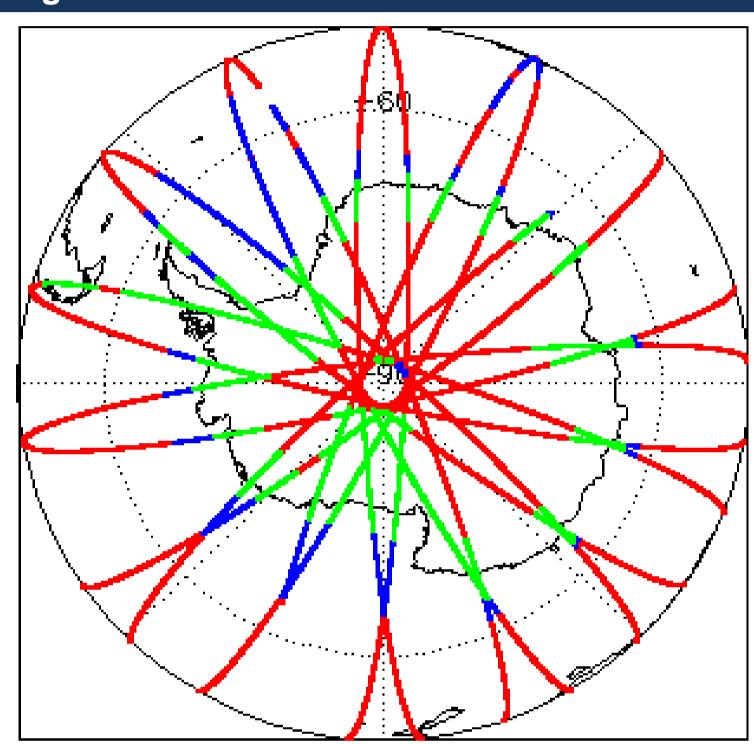
Report Production Date:	20-May-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

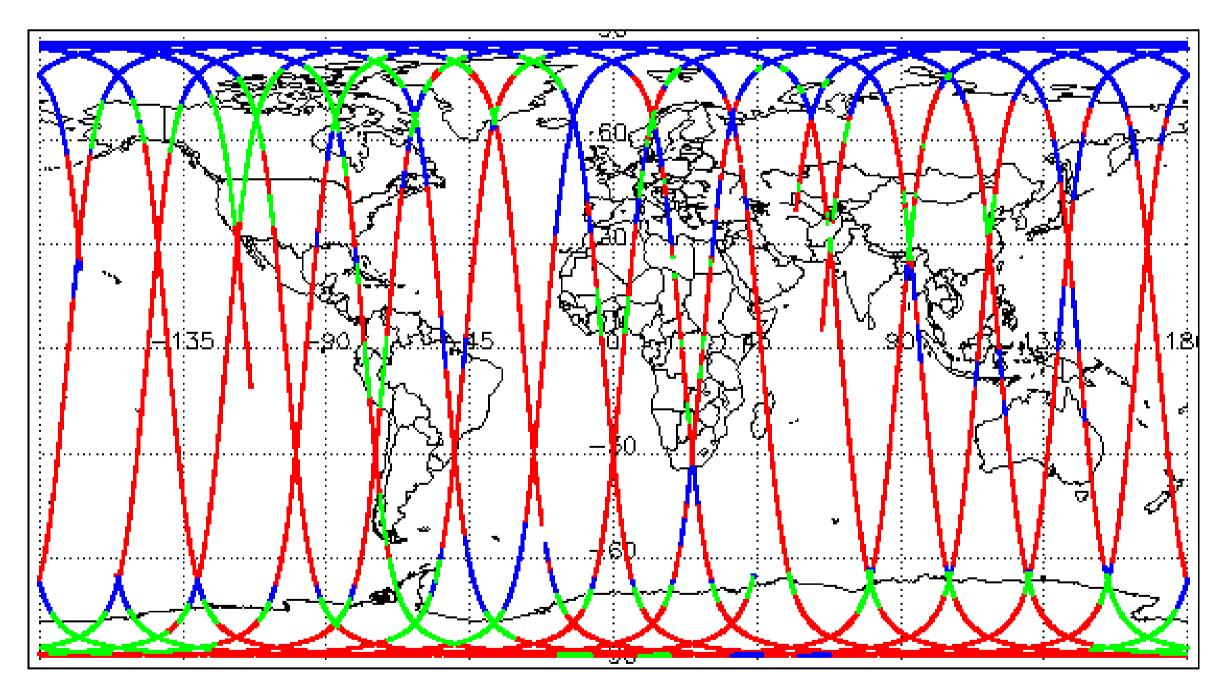
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	See Section 4.5
L1B & L2 Auxiliary Data File Usage Check	See Section 4.6, 5.3 and 6.3
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5

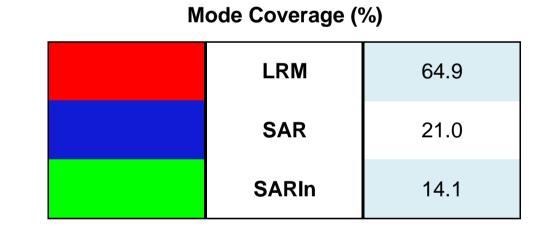
Mission / Instrument News	
18-Apr-2020	None
19-Apr-2020	None
20-Apr-2020	Nothing planned

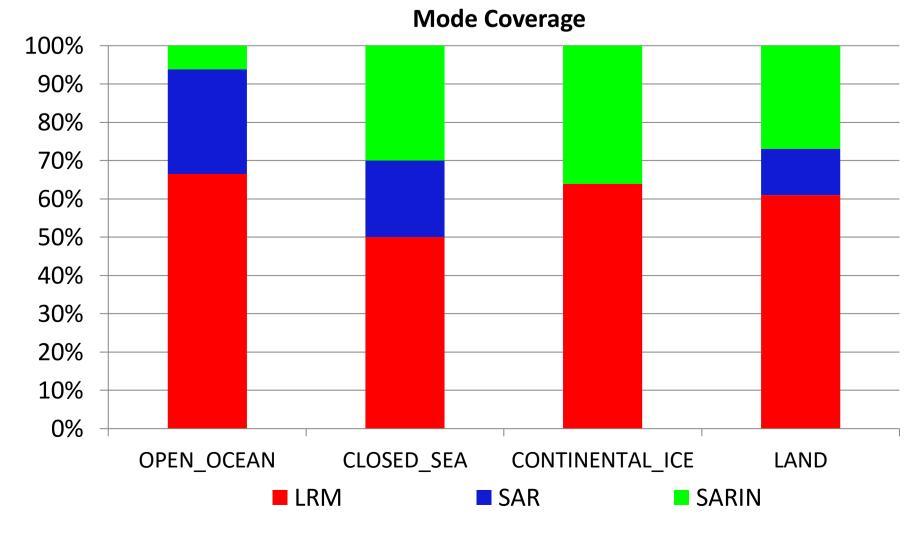
2. Global Coverage

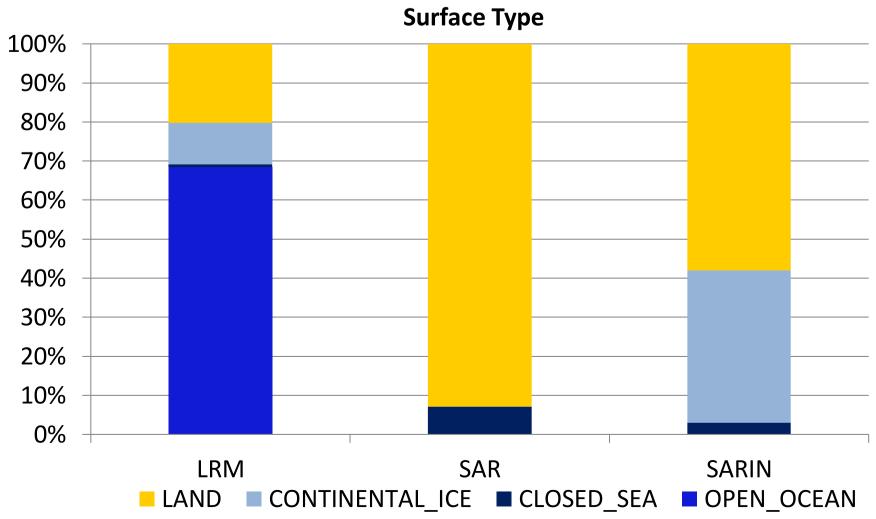












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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.

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.

Number of products with errors:

107

0

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200418T234318_20200419T001147_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T001150_20200419T001204_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T003324_20200419T003848_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T003909_20200419T004047_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T011620_20200419T011949_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T021413_20200419T021634_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T021707_20200419T021751_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T021938_20200419T022048_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T022332_20200419T022404_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T022418_20200419T023006_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T023045_20200419T023217_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T023304_20200419T024012_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T035316_20200419T035342_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T035552_20200419T035617_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T040003_20200419T040347_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T040349_20200419T040610_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T043037_20200419T043541_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T044138_20200419T051454_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T051724_20200419T051754_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T051756_20200419T051801_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T051803_20200419T051814_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T051817_20200419T051835_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T062150_20200419T063339_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T063420_20200419T063703_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T063707_20200419T063730_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T063733_20200419T063907_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T064348_20200419T065226_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T065531_20200419T065535_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T065537_20200419T065541_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T065543_20200419T065601_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T065604_20200419T065632_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T065634_20200419T065637_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T065640_20200419T065810_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T073001_20200419T074432_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T080045_20200419T081312_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T081415_20200419T081612_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T081812_20200419T082734_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T082929_20200419T083317_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T083320_20200419T083328_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200419T083332_20200419T083337_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T083341_20200419T083403_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_1B_20200419T083405_20200419T083429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T083431_20200419T083759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T085206_20200419T085351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T085502_20200419T090700_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T091218_20200419T092646_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T092943_20200419T093800_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T100342_20200419T100446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T100833_20200419T100913_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T100956_20200419T101022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T101025_20200419T101656_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T103203_20200419T103758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T103855_20200419T110559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T111119_20200419T111628_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T114648_20200419T114717_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T114729_20200419T114754_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T114757_20200419T115505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T121602_20200419T121608_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T121612_20200419T121617_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T121621_20200419T124433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T125815_20200419T132709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T132755_20200419T133025_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T144600_20200419T144929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T145052_20200419T145538_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T145556_20200419T150057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T150712_20200419T150822_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T150835_20200419T150950_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T151228_20200419T151244_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T151333_20200419T151658_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T152913_20200419T153752_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T154037_20200419T160301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T163909_20200419T164344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T164447_20200419T164619_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T170527_20200419T170640_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T184401_20200419T184507_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T184510_20200419T184520_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T184522_20200419T184552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T184554_20200419T184621_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T190311_20200419T190410_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T190413_20200419T192046_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T193800_20200419T195132_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T195345_20200419T195402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T200711_20200419T200731_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T202242_20200419T202702_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T202704_20200419T203024_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T203310_20200419T204331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T212044_20200419T212824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T213235_20200419T213723_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200419T220537_20200419T220724_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T220537_20200419T220724_D001 CS_OFFL_SIR_LRM_1B_20200419T220727_20200419T220745_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 The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200419T220537_20200419T220724_D001 CS_OFFL_SIR_LRM_1B_20200419T220727_20200419T220745_D001 CS_OFFL_SIR_LRM_1B_20200419T220747_20200419T220802_D001 CS_OFFL_SIR_LRM_1B_20200419T220804_20200419T220805_D001 CS_OFFL_SIR_LRM_1B_20200419T220807_20200419T220908_D001 CS_OFFL_SIR_LRM_1B_20200419T220910_20200419T220918_D001 CS_OFFL_SIR_LRM_1B_20200419T220910_20200419T220927_D001 CS_OFFL_SIR_LRM_1B_20200419T220922_20200419T220940_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200419T235034_20200419T235046_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200419T235303_20200420T001843_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:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20200419T192822_20200419T192826_D001	Cal1 Correction Missing	The Cal1 correction has not been applied

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200419T193800_20200419T195132_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200419T220537_20200419T220724_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_SIN_1B_20200419T192822_20200419T192826_D001	Cal1 Correction Missing	The Cal1 correction has not been applied.

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

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: 54

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200418T234318_20200419T001147_D001	HREHACKELSI BACKSCAHELEHOL	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
US OFFE SIR ERMEZ 202004191012311 202004191015753 10001		There is a height and backscatter error for Retracker 2 for one or more records
U.S OFFI SIK I KIVI / /U/UU4191U/11U8 /U/UU4191U/17US 1JUU1		There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220200419T032731_20200419T033612_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_220200419T035134_20200419T035149_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_220200419T040849_20200419T042824_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_220200419T044138_20200419T051454_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_220200419T054020_20200419T060316_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_220200419T062150_20200419T063339_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_220200419T063420_20200419T063703_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_220200419T063733_20200419T063907_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_220200419T064348_20200419T065226_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_220200419T071119_20200419T072754_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_220200419T073001_20200419T074432_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_220200419T080045_20200419T081312_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_220200419T081415_20200419T081612_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_220200419T081812_20200419T082734_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_220200419T085206_20200419T085351_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200419T085502_20200419T090700_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_220200419T091218_20200419T092646_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_220200419T094020_20200419T095642_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_220200419T095929_20200419T100141_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_220200419T100833_20200419T100913_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200419T101025_20200419T101656_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200419T103855_20200419T110559_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_220200419T111920_20200419T114433_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_220200419T121621_20200419T124433_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_220200419T125815_20200419T132709_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_220200419T133443_20200419T133606_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_220200419T134948_20200419T142337_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_220200419T151333_20200419T151658_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_220200419T152913_20200419T153752_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_220200419T154037_20200419T160301_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_220200419T161608_20200419T163543_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_220200419T170527_20200419T170640_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200419T170741_20200419T174111_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_220200419T175954_20200419T183116_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

### CS_OFFL_SIR_LRM_2_20200419T190311_20200419T190410_D001	
Error (Retracker 2) Backscatter Error (Retracker 2) Error (Retracker 2) Backscatter Error (Retracker 2) Error (Retracker 2) Backscatter Error (Retracker 2) Backscat	There is a height and backscatter error for Retracker 2 for one or more records
Error (Retracker 2) Fecords	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20200419T195523_20200419T200557_D001	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20200419T202704_20200419T203024_D001 CS_OFFL_SIR_LRM_2_20200419T202704_20200419T203024_D001 CS_OFFL_SIR_LRM_2_20200419T203310_20200419T204331_D001 CS_OFFL_SIR_LRM_2_20200419T203310_20200419T205941_D001 CS_OFFL_SIR_LRM_2_20200419T204511_20200419T205941_D001 CS_OFFL_SIR_LRM_2_20200419T212044_20200419T212824_D001 CS_OFFL_SIR_LRM_2_20200419T212044_20200419T212824_D001 CS_OFFL_SIR_LRM_2_20200419T213235_20200419T213723_D001 CS_OFFL_SIR_LRM_2_20200419T213235_20200419T213723_D001 CS_OFFL_SIR_LRM_2_20200419T214007_20200419T214553_D001 CS_OFFL_SIR_LRM_2_20200419T214007_20200419T21030_D001 CS_OFFL_SIR_LRM_2_20200419T220943_20200419T221030_D001 CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20200419T203310_20200419T205941_D001 CS_OFFL_SIR_LRM_2_20200419T204511_20200419T205941_D001 CS_OFFL_SIR_LRM_2_20200419T212044_20200419T212824_D001 CS_OFFL_SIR_LRM_2_20200419T212044_20200419T213723_D001 CS_OFFL_SIR_LRM_2_20200419T213235_20200419T213723_D001 CS_OFFL_SIR_LRM_2_20200419T213235_20200419T213723_D001 CS_OFFL_SIR_LRM_2_20200419T214007_20200419T214553_D001 CS_OFFL_SIR_LRM_2_20200419T214007_20200419T21000_D001 CS_OFFL_SIR_LRM_2_20200419T220943_20200419T221000_D001 CS_OFFL_SIR_LRM_2_20200419T220943_20200419T221000_D001 CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20200419T204511_20200419T205941_D001 (Retracker 3), Backscatter Error (Retracker 2). Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Backsc	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20200419T204511_20200419T205941_D001 CS_OFFL_SIR_LRM_2_20200419T212044_20200419T212824_D001 CS_OFFL_SIR_LRM_2_20200419T213235_20200419T213723_D001 CS_OFFL_SIR_LRM_2_20200419T213235_20200419T214553_D001 CS_OFFL_SIR_LRM_2_20200419T220943_20200419T221030_D001 CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 CS_OFFL_SIR_LRM_2_20200419T233203_20200419T234259_D001 CS_OFFL_SIR_LRM_2_20200419T233203_20200419T234259_D001 CS_OFFL_SIR_LRM_2_30200419T235303_20200420T001843_D001	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20200419T213235_20200419T213723_D001 Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T214007_20200419T214553_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T220943_20200419T221030_D001 Surface Model Unavailable No DEM CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 Height Error (Retracker 2), Height Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T225235_20200419T223904_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 Height Error (Retracker 2), Height Error (Retrac	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20200419T213235_20200419T214553_D001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable No DEM CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T223904_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) There is records CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2) There is records CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 There is for Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2) There is for Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20200419T214007_20200419T214933_D001 Error (Retracker 2) Frecords CS_OFFL_SIR_LRM_2_20200419T220943_20200419T221030_D001 CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T225235_20200419T231811_D001 CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Frecords There is for Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) There is for Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2) There is for Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) There is for Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2) There is for Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 CS_OFFL_SIR_LRM_2_30200419T235303_20200420T001843_D001	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20200419T221609_20200419T223904_D001 (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20200419T23535_20200419T2318T1_D001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200419T234212_20200419T234259_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_202004191234212_202004191234259_D001 Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) There is for Retracker 2)	
CS_OFFL_SIR_LRM_2_20200419T235303_20200420T001843_D001 (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
The Cali	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
U.S. OFFI, SIR, SIN, 7 - 202004191192822 202004191192826 DUUL	The Calibration correction is missing or has been taken from the IPFDB instead of the Calibration products for one or more records