



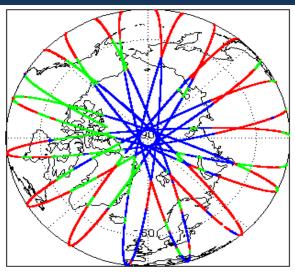
1. Overview

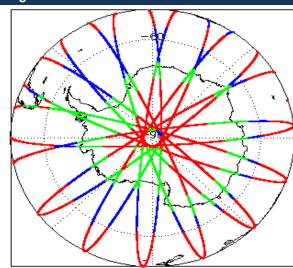
Report Production Date:	13-Sep-2019	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

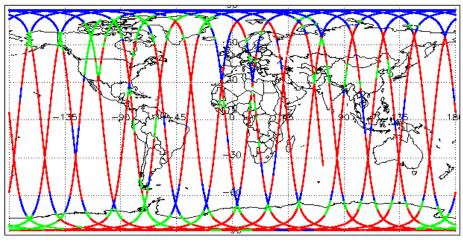
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	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

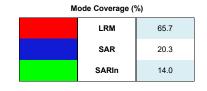
Mission / Instru	ment News
12-Aug-2019	None
13-Aug-2019	None
14-Aug-2019	Nothing planned

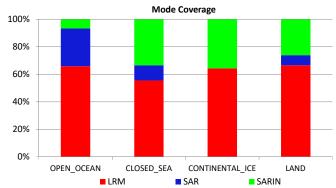
2. Global Coverage

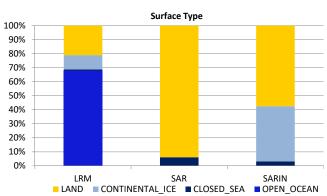












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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: 0

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: 85

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20190812T235346_20190813T001729_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T001915_20190813T002831_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T013228_20190813T015155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T015157_20190813T015942_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T020049_20190813T020112_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T020140_20190813T020258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T020331_20190813T020521_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T020558_20190813T021023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T030223_20190813T030744_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T031829_20190813T032201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T032323_20190813T032805_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T032829_20190813T032959_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T033144_20190813T033329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T033513_20190813T033617_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T034020_20190813T034031_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T034115_20190813T034129_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T034159_20190813T034230_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T034434_20190813T034450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T050331_20190813T050929_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190813T051137 20190813T051605 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190813T053808 20190813T061307 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T071624_20190813T073106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T073547_20190813T073645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T073648_20190813T075237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T081015_20190813T082404_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T082617_20190813T084237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T085524_20190813T090306_D001	Loss of echo	
		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T090308_20190813T090330_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T090549_20190813T091606_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T095153_20190813T100208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T100434_20190813T100956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T101240_20190813T102208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T103345_20190813T103741_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T103744_20190813T104039_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T104042_20190813T104113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T104116_20190813T104127_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T104130_20190813T104157_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T104228_20190813T104313_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T104713_20190813T104739_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T111910_20190813T112209_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T112612_20190813T115106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T115109_20190813T115351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T115639_20190813T115742_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T121659_20190813T122237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T122259_20190813T122329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T122519_20190813T124923_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T135113_20190813T135819_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T135853_20190813T140041_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20190813T140047_20190813T141932_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T144627_20190813T151812_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T153308_20190813T153334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T153702_20190813T153842_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T153915_20190813T154007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T154328_20190813T154434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T154943_20190813T155324_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T164828_20190813T170003_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T171918_20190813T172051_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T172205_20190813T172237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T172240_20190813T172645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T172737_20190813T172805_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T172821_20190813T174632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T180408_20190813T184011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T191144_20190813T192438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T193342_20190813T193538_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T193717_20190813T194041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T194306_20190813T195803_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T201308_20190813T201941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T203200_20190813T204845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T205230_20190813T205258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T205326_20190813T210143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T211208_20190813T211500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T214521_20190813T214636_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T214752_20190813T214759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T214802_20190813T214953_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T214956_20190813T215307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T215324_20190813T215935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T221117_20190813T221339_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T221502_20190813T222051_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T222336_20190813T224625_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T225012_20190813T225843_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T230209_20190813T232641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T233030_20190813T233502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T235209_20190813T235607_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T235809_20190813T235845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190813T235848_20190814T001010_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:

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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20190813T101240_20190813T102208_D001	IECHO error IRK 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_20190813T215324_20190813T215935_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

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).

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.

0

61

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220190812T235346_20190813T001729_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_220190813T001915_20190813T002831_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_220190813T005023_20190813T010017_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_220190813T013228_20190813T015155_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_220190813T015157_20190813T015942_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_220190813T020558_20190813T021023_D001	,,	There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190813T022210_20190813T025447_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_220190813T031132_20190813T031540_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_220190813T034546_20190813T034934_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_220190813T040112_20190813T041027_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_220190813T041312_20190813T043426_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_220190813T045200_20190813T050143_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_220190813T050331_20190813T050929_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_220190813T051137_20190813T051605_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_220190813T053808_20190813T061307_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_220190813T063223_20190813T070402_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_220190813T071624_20190813T073106_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_220190813T073547_20190813T073645_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_220190813T073648_20190813T075237_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_220190813T081015_20190813T082404_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_220190813T082617_20190813T084237_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_220190813T085524_20190813T090306_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190813T090549_20190813T091606_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

COUNT SECURITY CONTROL OF CONTROL	CS_OFFL_SIR_LRM_2 _20190813T091746_20190813T093122_D001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Section 2 - 2000001100000 20100110000 2010 CO. OPEL DRI LINE 2 - 2000001110000 20100110000 2010 CO. OPEL DRI LINE 2 - 20000011100000 201001100000 2010 CO. OPEL DRI LINE 2 - 20000011100000 201001110000 2010 CO. OPEL DRI LINE 2 - 20000011100000 2010011100000 2010 CO. OPEL DRI LINE 2 - 20000011100000 2010011100000 2010 CO. OPEL DRI LINE 2 - 20000011100000 2010011100000 2010 CO. OPEL DRI LINE 2 - 20000011100000 2010011100000 2010 CO. OPEL DRI LINE 2 - 20000011100000 2010011100000 2010 CO. OPEL DRI LINE 2 - 20000011100000 2010011100000 2010 CO. OPEL DRI LINE 2 - 20000011100000 2010011100000 2010011100000 201001110000 201001110000 201001110000 201001110000 2010011100000 2010011100000 2010011100000 2010011100000 2010011100000 20100000000			records There is a height and backscatter error for Retracker 2 and a height error
COUNTY BIT UPON 2 201000001100020 COUNTY COU	CS_OFFL_SIR_LRM_220190813T095153_20190813T100208_D001	(Retracker 2)	for Retracker 3 for one or more records
CEL CEPT. BIRL 194. 2. 201000311101022 2010011110202 2010 CEL CEPT. BIRL 194. 2. 20100031110102 2010011110202 201001111000 2001 CEL CEPT. BIRL 194. 2. 20100031110102 2010011111000 2001 CEL CEPT. BIRL 194. 2. 20100031110102 2010011111000 2001 CEL CEPT. BIRL 194. 2. 20100031110102 2010011111000 2001 CEL CEPT. BIRL 194. 2. 20100031110100 2001 CEL CEPT. BIRL 194. 2. 20100031111010 2010011111000 2001 CEL CEPT. BIRL 194. 2. 20100031111010 2010011111000 2001 CEL CEPT. BIRL 194. 2. 20100031111010 2010011111000 2001 CEL CEPT. BIRL 194. 2. 201000311110100 2001 CEL CEPT. BIRL 194. 2. 20100031111000 2001 CEL CEPT. BIRL 194. 2. 2010033111000 2001 CEL CEPT. BIRL 194. 2. 2010033111000 2001 CEL CEPT. BIRL 194. 2. 20100331110000 2001 CEL CEPT. BIRL 194. 2. 201003	CS_OFFL_SIR_LRM_220190813T100434_20190813T100956_D001	(Retracker 3), Backscatter Error (Retracker 2)	
Co., OFF., SRI, LAN 2_20100031110002_0019013110002_0019 Co., OFF., SRI, LAN 2_20100031110002_0019013110002_0019 Co., OFF., SRI, LAN 2_20100031110002_00190131110002_0019 Co., OFF., SRI, LAN 2_20100031110002_00190131110002_0019 Co., OFF., SRI, LAN 2_20100031110002_00190131110002_0019 Co., OFF., SRI, LAN 2_20100031110002_0019131110002_00191 Co., OFF., SRI, LAN 2_20100031110002_001913110002_00191 Co., OFF., SRI, LAN 2_20100031110002_001913110000_00191 Co., OFF., SRI, LAN 2_20100031110002_001913110000_00191 Co., OFF., SRI, LAN 2_20100031110002_001913110000_00191 Co., OFF., SRI, LAN 2_20100031110000_001913110000_00191 Co., OFF., SRI, LAN 2_20100031110000_001913110000_00191 Co., OFF., SRI, LAN 2_20100031110000_001913110000_00191 Co., OFF., SRI, LAN 2_20100031110000_0019131100000_00191 Co., OFF., SRI, LAN 2_20100031110000_0019131100000_001913110000000000	CS_OFFL_SIR_LRM_2_20190813T101240_20190813T102208_D001	(Retracker 3), Backscatter Error (Retracker 2)	
Co. GPFL_SRL_EAL_2_procedual Triscolog_20000457100052 Co. GPFL_SRL_EAL_2_procedual Triscolog_2010045710000 Co. GPFL_SRL_EAL_2_procedual Triscolog_201004571000 Co. GPFL_SRL_EAL_2_procedual Triscolog_201004571000 Co. GPFL_SRL_EAL_2_procedual Triscolog_201004571000 Co. GPFL_SRL_EAL_2_procedual Triscolog_201004571000 Co. GPFL_SRL_EAL_2_procedual Triscolog_2010045710000 Co. GPFL_SRL_EAL_2_procedual Triscolog_20100457100000 Co. GPFL_SRL_EAL_2_procedual Trisc	CS_OFFL_SIR_LRM_220190813T102242_20190813T102248_D001	(Retracker 3), Backscatter Error	
Co. OFT., SRI, LIM 2. 2016/09/17/126/9, 2016/05/17/126/9. 2016/05/	CS_OFFL_SIR_LRM_2_20190813T104845_20190813T110933_D001	(Retracker 3), Backscatter Error	
CS. OFTL. SRI, LEM 2. 2010/03/1715291 2.010/03/1715392 2.	CS_OFFL_SIR_LRM_220190813T112612_20190813T115106_D001		
For Price (Section 2) and a section of the section	CS_OFFL_SIR_LRM_220190813T121502_20190813T121535_D001		
SoOFFL_SRL_EMA_2_20100615115244_2010015115030_0001 Fight (Find Reduced 2) Bediescated error for Reduced 2 for one or more find (Reduced 2) Bediescated error for Reduced 2 for one or more find (Reduced 2) Bediescated error for Reduced 2 for one or more find (Reduced 2) Bediescated error for Reduced 2 for one or more find (Reduced 2) Bediescated error for Reduced 2 for one or more find (Reduced 2) Bediescated error for Reduced 2 and one OEM of Stope Model was used for the Nacional of an original find (Reduced 2) Bediescated error for Reduced 2 and english error for Reduced 3 and english error for Reduced 4 and english error for R	CS_OFFL_SIR_LRM_220190813T122519_20190813T124923_D001		
Enro (Retracter 2). Behavioral Processor 2) and backgrafter error for Retracter 2 A rore or more records. Sp. FFL_SRL_PAL2_201009137140047_201909137141932_0010 Sp. FFL_SRL_PAL2_201009137140047_201909137141932_0010 Sp. FFL_SRL_PAL2_201009137140047_201909137140048_0010 Sp. FFL_SRL_PAL2_201009137140047_201909137140048_0010 Sp. FFL_SRL_PAL2_201009137140047_201909137140049_0010 Sp. FFL_SRL_PAL2_201009137140047_201909137140049_0010 Sp. FFL_SRL_PAL2_201009137140047_201909137140049_0010 Sp. FFL_SRL_PAL2_201009137140049_00100137140049_0010 Sp. FFL_SRL_PAL2_201009137150049_00100137140059_0010 Sp. FFL_SRL_PAL2_201009137150049_00100137140059_0010 Sp. FFL_SRL_PAL2_201009137150049_00100137140059_001001371400	CS_OFFL_SIR_LRM_220190813T130528_20190813T131605_D001		
See CFFL_SIR_LENU_2_2010813T14024_2019813T14030_001 See CFFL_SIR_LENU_2_2010813T14024_2019813T14024_001 See CFFL_SIR_LENU_2_2010813T14024_2019813T14024_001 See CFFL_SIR_LENU_2_2010813T14024_2019813T14024_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T14024_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T15025_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T15025_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T15028_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T15024_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T15024_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T15024_001 See CFFL_SIR_LENU_2_2010813T15024_2019813T170020_001 See CFFL_SIR_LENU_2_2010813T15024_20198013T170020_001 See CFFL_SIR_LENU_2_2010813T15024_20198013T170020_001 See CFFL_SIR_LENU_2_2010813T15024_20198013T170020_001 See CFFL_SIR_LENU_2_2010813T170245_20198013T170020_001 See CFFL_SIR_LENU_2_2010813T170245_20198013T170020_001 See CFFL	CS_OFFL_SIR_LRM_2_20190813T132144_20190813T133830_D001		
CS_OFFL_SR_LRN_2_20190813T140342_0010813T140340_001 CS_OFFL_SR_LRN_2_20190813T1423440_20190813T140340_001 CS_OFFL_SR_LRN_2_20190813T1423440_20190813T1540340_001 CS_OFFL_SR_LRN_2_20190813T15235_20190813T152132_0001 CS_OFFL_SR_LRN_2_20190813T15235_20190813T152132_0001 CS_OFFL_SR_LRN_2_20190813T15235_20190813T15235_0001 CS_OFFL_SR_LRN_2_20190813T15235_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T153004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T153004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T153004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T153004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T153004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T153004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T163004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T163004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T163004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T163004_20190813T153000_0001 CS_OFFL_SR_LRN_2_20190813T164430_0001 CS_OFFL_SR_LRN_2_20190813T164430_0001 CS_OFFL_SR_LRN_2_20190813T164430_0001 CS_OFFL_SR_LRN_2_20190813T170003_0001 CS_OFFL_SR_LRN_2_20190813T10003_00010813T200030_0001 CS_OFFL_SR_LRN_2_20190813T100030_00010813T200030_0001 CS_OFFL_SR_LRN_2_20190813T200030_00010813T200030_0001 CS_OFFL_SR_LRN_2_20190813T200000_00013T200000_00010013T0000000000000000000000000	CS_OFFL_SIR_LRM_220190813T135113_20190813T135819_D001		
For (Retracker 2) process For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and no DEM or Stape Model was used for the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) and part of the location of one or more secrets For (Retracker 2) an	CS_OFFL_SIR_LRM_2_20190813T140047_20190813T141932_D001	(Retracker 3), Backscatter Error	Retracker 3 and no DEM or Slope Model was used for the location of one
(SCOFFL.SIR_LRM.2_20190813T149212, 20190813T16212, 20100813T16212, 20190813T16212, 20190813T16222, 20190813T177152, 2019	CS_OFFL_SIR_LRM_2_20190813T142440_20190813T142848_D001		
Enror (Retracker 2) Backscatter Forror (Retracker 2) Backscatter F	CS_OFFL_SIR_LRM_2_20190813T144627_20190813T151812_D001	(Retracker 3), Backscatter Error	Retracker 3 and no DEM or Slope Model was used for the location of one
Error (Retracker 2). Surface Model Unavailable CS_OFFL_SIR_LRM_2_20190813T153047_20190813T153202_D001 Error (Retracker 2). Backscatter Error (Retracker 2). Backsca	CS_OFFL_SIR_LRM_2_20190813T152135_20190813T152152_D001		· ·
Enror (Retracker 2) Enror	CS_OFFL_SIR_LRM_2_20190813T153004_20190813T153039_D001	Error (Retracker 2), Surface Model	
Esro (Retracker 2) teroods Height Error (Retracker 2), Backscatter Error (Retracker 2) to no er more exceeds CS_OFFL_SIR_LRM_2_20190813T168432_20190813T170003_D001 Elight Error (Retracker 2), Backscatter Error (Retracker 2) to no er more exceeds There is a height and backscatter error for Retracker 2 for one or more exceeds There is a height and backscatter error for Retracker 2 for one or more exceeds There is a height and backscatter error for Retracker 2 for one or more exceeds There is a height and backscatter error for Retracker 2 for one or more exceeds There is a height and backscatter error for Retracker 2 for one or more exceeds Error (Retracker 2) ES_OFFL_SIR_LRM_2_20190813T17821_20190813T174832_D001 Height Error (Retracker 2). Backscatter Error (Retracker 2). There is a height and backscatter error for Retracker 2 for one or more exceeds Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). There is a height and backscatter error for Retracker 2 for one or more exceeds Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). There is a height and backscatter error for Retracker 2 for one or more exceeds Error (Retracker 2). Backscatter Error (Retra	CS_OFFL_SIR_LRM_2_20190813T153047_20190813T153220_D001		
Enor (Retracker 2) records En	CS_OFFL_SIR_LRM_220190813T155340_20190813T160638_D001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190813T170923_20190813T171152_D001	CS_OFFL_SIR_LRM_2_20190813T162432_20190813T164543_D001		
Error (Retracker 2) Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker	CS_OFFL_SIR_LRM_2_20190813T164828_20190813T170003_D001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190813T184011_D001	CS_OFFL_SIR_LRM_2_20190813T170923_20190813T171152_D001	,	~
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190813T185150_20190813T191122_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (CS_OFFL_SIR_LRM_220190813T172821_20190813T174632_D001		
CS_OFFL_SIR_LRM_2_20190813T191144_20190813T192438_D001 CS_OFFL_SIR_LRM_2_20190813T191144_20190813T192438_D001 CS_OFFL_SIR_LRM_2_20190813T194306_20190813T195803_D001 CS_OFFL_SIR_LRM_2_20190813T200006_20190813T200932_D001 CS_OFFL_SIR_LRM_2_20190813T200006_20190813T200932_D001 CS_OFFL_SIR_LRM_2_20190813T203200_20190813T200932_D001 CS_OFFL_SIR_LRM_2_20190813T203200_20190813T204845_D001 CS_OFFL_SIR_LRM_2_20190813T203200_20190813T204845_D001 CS_OFFL_SIR_LRM_2_20190813T212235_20190813T213631_D001 CS_OFFL_SIR_LRM_2_20190813T212235_20190813T213631_D001 CS_OFFL_SIR_LRM_2_20190813T214752_20190813T214759_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T21339_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T21339_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T21339_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215339_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215	CS_OFFL_SIR_LRM_220190813T180408_20190813T184011_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190813T194306_20190813T195803_D001 Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), B	CS_OFFL_SIR_LRM_2_20190813T185150_20190813T191122_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190813T200006_20190813T200932_D001 Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3)	CS_OFFL_SIR_LRM_220190813T191144_20190813T192438_D001		~
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190813T203200_20190813T204845_D001 CS_OFFL_SIR_LRM_2_20190813T203200_20190813T204845_D001 CS_OFFL_SIR_LRM_2_20190813T212235_20190813T213631_D001 CS_OFFL_SIR_LRM_2_20190813T212235_20190813T214759_D001 CS_OFFL_SIR_LRM_2_20190813T214752_20190813T214759_D001 CS_OFFL_SIR_LRM_2_20190813T214802_20190813T214953_D001 CS_OFFL_SIR_LRM_2_20190813T214802_20190813T214953_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 CS_OFFL_SIR_LRM_2_20190813T21117_20190813T221339_D001 CS_OFFL_SIR_LRM_2_20190813T221117_20190813T221339_D001 CS_OFFL_SI	CS_OFFL_SIR_LRM_220190813T194306_20190813T195803_D001		_
CS_OFFL_SIR_LRM_2_20190813T203200_20190813T204845_D001 (Retracker 3), Backscatter Error (Retracker 2) for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20190813T212235_20190813T213631_D001 CS_OFFL_SIR_LRM_2_20190813T214752_20190813T214759_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 Surface Model Unavailable 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 (Retracker 2), Height Error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220190813T200006_20190813T200932_D001		
CS_OFFL_SIR_LRM_2_20190813T212235_20190813T213631_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190813T214802_20190813T214953_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220190813T203200_20190813T204845_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20190813T214802_20190813T214953_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscat	CS_OFFL_SIR_LRM_220190813T212235_20190813T213631_D001	Height Error (Retracker 2), Backscatter	
CS_OFFL_SIR_LRM_2_20190813T215324_20190813T215935_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), For the residual part of the records of the records of the records of 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 for one or more records There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220190813T214752_20190813T214759_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190813T221117_20190813T221339_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20190813T221502_20190813T222051_D001 Height Error (Retracker 2), Backscatter 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	CS_OFFL_SIR_LRM_220190813T214802_20190813T214953_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190813T221117_20190813T221339_D001 (Retracker 3), Backscatter Error (Retracker 2) Inere is a neight and backscatter error for Retracker 2 and a neight error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20190813T221502_20190813T222051_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 and a neight error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220190813T215324_20190813T215935_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190813T221502_20190813T222051_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220190813T221117_20190813T221339_D001	(Retracker 3), Backscatter Error	
	CS_OFFL_SIR_LRM_220190813T221502_20190813T222051_D001	Height Error (Retracker 2), Backscatter	

		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_220190813T230209_20190813T232641_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
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records