



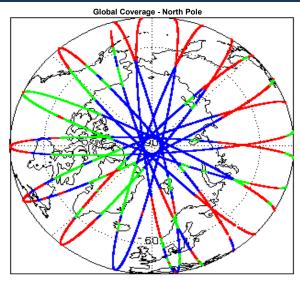
# 1. Overview

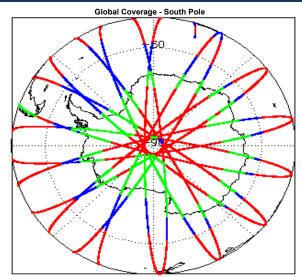
Report Production Date:	30-Jul-2018		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

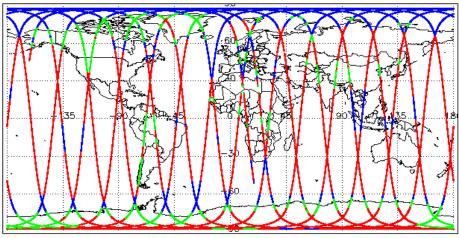
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5

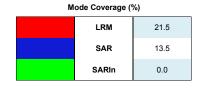
Mission / Instru	ment News
28-Jun-2018	None
29-Jun-2018	None
30-Jun-2018	Nothing planned

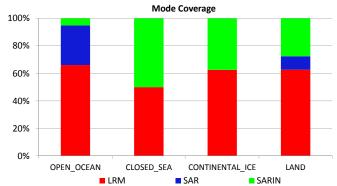
# 2. Global Coverage

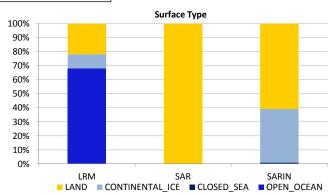












# 3. Instrument Configuration

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

Number of products with errors:

## 4.4 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:

## 4.5 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:

0

#### 4.6 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:

### 4.7 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_20180629T054059_20180629T055050_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20180629T055053_20180629T055433_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20180629T063257_20180629T070541_C001	IECDO ERROR I RK ECDO ERROR	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).

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.

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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:

Septimental Land Control (1999) and the second control (1999) and	Product	Test Failed	Description
COUNT_BELLINECONDESTITUTES_C		Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Control politically_interest (1994) interest (		,	
CL_OFF_BR_UNIN_2_PROMOTERISES_COMES TO SERVER AND ADMINISTRATION OF THE PROMOTERS AND ADMINISTRATION O	CS_OFFL_SIR_LRM_220180629T003035_20180629T003431_C001	Error (Retracker 2)	
CO_CPT_RIGHT LIMB 2_D010020711411 2916020701924 DOI  OR_CPT_RIGHT LIMB 2_D01002071141 2916020701924 DOI  OR_CPT_RIGHT LIMB	CS_OFFL_SIR_LRM_220180629T004459_20180629T005601_C001	(Retracker 3), Backscatter Error (Retracker 2)	
Comp. Sp. 1984 2 20100027105124 20100007105124 2010  Comp. Sp. 1984 2 20100027105124 20100007105124 2010  Comp. Sp. 1984 2 20100027105124 20100007105124 2010  Comp. Sp. 1984 2 20100027105124 20100007105120 2010  Comp. Sp. 1984 2 20100027105120 2010  Comp. Sp. 1	CS_OFFL_SIR_LRM_220180629T005847_20180629T011959_C001	(Retracker 3), Backscatter Error	
House of the service	CS_OFFL_SIR_LRM_220180629T013631_20180629T014720_C001		
DOUGHT_SRI_UNIORNADOTHOSIS _ ORNADOTHOSIS _ ORNAD	CS OFFL SIR LRM 2 20180629T014908 20180629T015626 C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
COLORS, SIRL LEW 2 - 201000001000001 COLORS (COLORS ) COL		Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
CS_CFF_BIL_FML_2_SINEDSTT00342_2019028T100350_2019  CS_CFF_BIL_FML_2_SINEDSTT00342_2019028T100350_2019  CS_CFF_BIL_FML_2_SINEDSTT00342_2019028T100350_2019  CS_CFF_BIL_FML_2_SINEDSTT00342_2019028T100350_2019  CS_CFF_BIL_FML_2_SINEDSTT00342_2019028T100350_2019  CS_CFF_BIL_FML_2_SINEDSTT00342_2019028T100350_2019  CS_CFF_BIL_FML_2_SINEDSTT00350_2019028T100350_2019  CS_CFF_BIL_FML_2_SINEDSTT00350_2019028T100350_2019028T100350_2019028T100350_2019028T100350_2019028T100350_2019028T100350_2019028T100350_2019028T100350_2019028T100350_2019028T	CS_OFFL_SIR_LRM_220180629T021051_20180629T021115_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
So, Deep, Sell, Lenk 2_consecuration for purposed processors and a control of the control of one or more control of the control of the control of one or more control of the control of the control of one or more control of the control of	CS_OFFL_SIR_LRM_220180629T022346_20180629T025858_C001	(Retracker 3), Backscatter Error	
So, OFFL, SRL LYML 2, 201000291704902 201000291704910 COD  So, OFFL, SRL LYML 2, 201000291704902 201000291704900 COD  So, OFFL, SRL LYML 2, 20100029170490 COD  So, OFF	CS_OFFL_SIR_LRM_220180629T030715_20180629T030952_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
GS_GFFL_SIN_LEM_2_TOINSECRIFICATION_TOINSECRIFICATION_TO TRANSPORT OF Relations 2 for one or more second to the part of the company of the part of the	CS OFFL SIR LRM 2 20180629T031757 20180629T033028 C001		
ScyPFL_SRL_MR_2_processorTrivators_processorTrivators_collections_		,	
Sey, FFL, BRL (PML2_2010002011040022_010002011040000_0000000000	C3_O11E_SIN_ENW_2201000291033042_201000291034002_0001		
Company   Comp	CS_OFFL_SIR_LRM_220180629T040211_20180629T040828_C001	(Retracker 3), Backscatter Error (Retracker 2)	
Exr. (Retables 2)  SOFT_SR_LRU_2_201806207106020 201806207106320 CO1  CS_OFT_SR_LRU_2_201806207106320 201806207106320 CO1  CS_OFT_SR_LRU_2_201806207106320 201806207107004 LO01  CS_OFT_SR_LRU_2_201806207106320 201806207106300 CO1  CS_OFT_SR_LRU_2_201806207106300 CO1  CS_OFT_SR_LRU_2_2018062071106300 CO1  CS_OFT_SR_LRU_2_20180620	CS_OFFL_SIR_LRM_220180629T040932_20180629T042118_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
Error (Retander 2)  For Fill Limbl 2 201800207105115   201800207105259   201800207105215   2018002071105215   2018002071105205	CS_OFFL_SIR_LRM_220180629T042322_20180629T043810_C001	Error (Retracker 2)	records
(Relinater 9), Backwarder Enror (Relinater 2), Backwarder Enro	CS_OFFL_SIR_LRM_220180629T045506_20180629T050535_C001	Error (Retracker 2)	records
Error (Retracker 2) ESCOPEL_SIR_LEM_2_201800297105292_201800297115495_0001  CS_OFFL_SIR_LEM_2_201800297115495_201800297115495_0001  CS_OFFL_SIR_LEM_2_20180029711559_201800297115495_0001  CS_OFFL_SIR_LEM_2_201800297115595_201800297115595_0001  CS_OFFL_SIR_LEM_2_201800297115955_201800297115955_0001  CS_OFFL_SIR_LEM_2_201800297115955_201800297115955_0001  CS_OFFL_SIR_LEM_2_201800297115955_201800297115955_0001  CS_OFFL_SIR_LEM_2_201800297115955_0001  CS_OFFL_SIR_LEM_2_2018002971159	CS_OFFL_SIR_LRM_220180629T051154_20180629T052359_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
Error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error (Retracker 2). Backscatter from For Retracker 2 and a height error for Re	CS_OFFL_SIR_LRM_220180629T060319_20180629T061715_C001	Error (Retracker 2)	records
Error (Retracker 2) Height Error (Retracker 3) H	CS_OFFL_SIR_LRM_220180629T063257_20180629T070541_C001		•
CS_OFFL_SIR_LRM_2_20180620T081125_20180620T080092TO80092T.  CS_OFFL_SIR_LRM_2_20180620T090715_20180620T090097_C001  CS_OFFL_SIR_LRM_2_20180620T1090715_20180620T090097_C001  CS_OFFL_SIR_LRM_2_20180620T1090721_20180620T090097_C001  CS_OFFL_SIR_LRM_2_20180620T1090721_20180620T109209_C001  CS_OFFL_SIR_LRM_2_20180620T1090820T1090820T009090_C001  CS_OFFL_SIR_LRM_2_20180620T1090820T1090820T1090800_C001  CS_OFFL_SIR_LRM_2_20180620T1090820T10908000_C001  CS_OFFL_SIR_LRM_2_20180620T10908000000000000000000000000000000000	CS_OFFL_SIR_LRM_220180629T073310_20180629T075601_C001		
GS_OFFL_SIR_LRM_2_20180629T090715_20180629T093807_C001  S_OFFL_SIR_LRM_2_20180629T090715_20180629T093007_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102505_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102505_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102505_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T102505_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100722_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100723_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100723_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100723_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T100723_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140740_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140740_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR_LRM_2_20180629T140700_20180629T100725_C001  S_OFFL_SIR	CS_OFFL_SIR_LRM_220180629T080442_20180629T080810_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Esport Retracker 2) Esport Retracker 3) Esport	CS_OFFL_SIR_LRM_220180629T081125_20180629T083922_C001	(Retracker 3), Backscatter Error	
Right Error (Retracker 2), Backscatter Error (Retracker 2), Backsc	CS_OFFL_SIR_LRM_220180629T090715_20180629T093607_C001		
Error (Retracker 2). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 3). Backscatter	CS_OFFL_SIR_LRM_220180629T094341_20180629T094709_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
SO OFFL_SIR_LRM_2_20180629T104354_2001  SO OFFL_SIR_LRM_2_20180629T104930_20180629T105657_C001  Surface Model Unavailable Height Error (Retracker 2). Backscatter Error (Retracker 2) and a height error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Height Error (Retracker 2). Backscatter Error (Retracker 3). Backscatter Error (Ret	CS_OFFL_SIR_LRM_2_20180629T100722_20180629T102503_C001		•
Error (Retracker 2)  Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 2) and a height error for Retracker 2 and a height error for Retracker 3 and a height error for for for Retracker 3 and a height error for for for for Retracker 3 and a height error for for for for for for for for for	CS_OFFL_SIR_LRM_220180629T103813_20180629T104354_C001	Height Error (Retracker 2), Backscatter	
Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (R	CS_OFFL_SIR_LRM_2_20180629T104930_20180629T105657_C001		ŭ
(Retracker 3), Backscatter Error (Retracker 2) in Cor Retracker 2 and a height error (Retracker 2) in Cor Retracker 3 for one or more records in Cor Retracker 3 for one or more records in Cord Retracker 2 in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 2 in Cord Retracker 2 in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Cord Retracker 3 for one or more records in Retracker 3	CS_OFFL_SIR_LRM_2_20180629T111832_20180629T112405_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20180629T121818_20180629T123011_C001  CS_OFFL_SIR_LRM_2_20180629T123635_20180629T125332_C001  CS_OFFL_SIR_LRM_2_20180629T123635_20180629T125332_C001  CS_OFFL_SIR_LRM_2_20180629T125635_20180629T125332_C001  CS_OFFL_SIR_LRM_2_20180629T126365_20180629T136736_C001  CS_OFFL_SIR_LRM_2_20180629T136755_20180629T136736_C001  CS_OFFL_SIR_LRM_2_20180629T136755_20180629T136736_C001  CS_OFFL_SIR_LRM_2_20180629T140629T1406_20180629T141265_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T144298_20180629T144206_C001  CS_OFFL_SIR_LRM_2_20180629T144938_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T155520_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T156262_C001  CS_OFFL_SIR_LRM_2_20180629T156262_C001  CS_OFFL_SIR_LRM_2_20180629T156262_C001  CS_OFFL_SIR_LRM_2_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155550_C001  CS_OFFL_SIR_LRM_2_20180629T155062_C001  CS_OFFL_S	CS_OFFL_SIR_LRM_220180629T113059_20180629T120555_C001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 3) Sackscatter Error (Retracker 3) Free 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_20180629T125752_20180629T130300_C001  CS_OFFL_SIR_LRM_2_20180629T130928_20180629T134536_C001  CS_OFFL_SIR_LRM_2_20180629T130928_20180629T134536_C001  CS_OFFL_SIR_LRM_2_20180629T135655_20180629T135725_C001  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T1440303_C001  CS_OFFL_SIR_LRM_2_20180629T144008_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T144008_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T144008_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T1513820_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T164334_C001  Error (Retracker 2) Height Error (Retrac	CS_OFFL_SIR_LRM_220180629T121657_20180629T121819_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20180629T125752_20180629T13000_C001  CS_OFFL_SIR_LRM_2_20180629T125752_20180629T13000_C001  CS_OFFL_SIR_LRM_2_20180629T130928_20180629T134536_C001  CS_OFFL_SIR_LRM_2_20180629T130928_20180629T134536_C001  CS_OFFL_SIR_LRM_2_20180629T130928_20180629T134536_C001  CS_OFFL_SIR_LRM_2_20180629T130928_20180629T135725_C001  CS_OFFL_SIR_LRM_2_20180629T130928_20180629T135725_C001  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T14406_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T14406_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T14406_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T14406_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T1515771_20180629T16121_C001  CS_OFFL_SIR_LRM_2_20180629T155771_20180629T161121_C001  CS_OFFL_SIR_LRM_2_20180629T155771_20180629T161121_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161343_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T16124_C001  CS_OFFL_SIR_LRM_2_20180629T160824_20180629T16124_C001  CS_OFFL_SIR_LRM_2_20180629T160824_20180629T16124_C001  CS_OFFL_SIR_LRM_2_20180629T160824_20180629T164334_C001  CS_OFFL_SIR_LRM_2_20180629T160824_20180629T161212	CS_OFFL_SIR_LRM_220180629T122818_20180629T123011_C001	Height Error (Retracker 2), Backscatter	ŭ
Height Error (Retracker 2), Height Error (Retracker 2) and a height error for Retracker 2 and a height error for Retracke	CS_OFFL_SIR_LRM_220180629T123635_20180629T125332_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20180629T130928_20180629T135725_C001  CS_OFFL_SIR_LRM_2_20180629T135655_20180629T135725_C001  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T143033_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T143033_C001  CS_OFFL_SIR_LRM_2_20180629T144006_20180629T14404_C001  CS_OFFL_SIR_LRM_2_20180629T144006_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T144036_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T152536_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T153820_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161121_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161121_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161334_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161334_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161334_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161334_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161334_C001  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161334_C001  CS_OFFL_SIR_LRM_2_20180629T152824_20180629T164334_C001  CS_OFFL_SIR_LRM_2_20180629T152824_20180629T164334_C001  CS_OFFL_SIR_LRM_2_20180629T152824_20180629T164334_C001  CS_OFFL_SIR_LRM_2_20180629T162824_20180629T164334_C001  CS_OFFL_SIR_LRM_2_20180629T1628	CS_OFFL_SIR_LRM_220180629T125752_20180629T130300_C001		No DEM or Slope Model was used for the location of one or more records
Height Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20180629T140740_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T141205_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T143033_C001  CS_OFFL_SIR_LRM_2_20180629T141255_20180629T143033_C001  CS_OFFL_SIR_LRM_2_20180629T144006_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T144936_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T144936_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T152536_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T153820_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T153820_20180629T162824_20180629T161121_C001  CS_OFFL_SIR_LRM_2_20180629T162824_20180629T164334_C001  Height Error (Retracker 2), He	CS_OFFL_SIR_LRM_220180629T130928_20180629T134536_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20180629T141205_C001 (Retracker 3), Backscatter Error (Retracker 2) theight Error (Retracker 2) and a height error (Retracker 3) for one or more records  CS_OFFL_SIR_LRM_2_20180629T144205_20180629T144204_C001 Surface Model Unavailable  CS_OFFL_SIR_LRM_2_20180629T144936_20180629T144204_C001 Surface Model Unavailable  CS_OFFL_SIR_LRM_2_20180629T144936_20180629T150626_C001 (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220180629T135655_20180629T135725_C001	Height Error (Retracker 2), Backscatter	•
CS_OFFL_SIR_LRM_2_20180629T144006_20180629T144204_C001  CS_OFFL_SIR_LRM_2_20180629T144036_20180629T150626_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T152536_C001  CS_OFFL_SIR_LRM_2_20180629T151107_20180629T152536_C001  CS_OFFL_SIR_LRM_2_20180629T153820_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T153820_20180629T155551_C001  CS_OFFL_SIR_LRM_2_20180629T15721_20180629T161121_C001  CS_OFFL_SIR_LRM_2_20180629T15721_20180629T161121_C001  Error (Retracker 2)  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 for Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2	CS_OFFL_SIR_LRM_220180629T140740_20180629T141205_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20180629T144006_20180629T144204_C001  Surface Model Unavailable  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3)	CS_OFFL_SIR_LRM_220180629T141255_20180629T143033_C001	Height Error (Retracker 2), Backscatter	•
CS_OFFL_SIR_LRM_2_20180629T144936_20180629T150626_C001  (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error	CS_OFFL_SIR_LRM_220180629T144006_20180629T144204_C001	, ,	
CS_OFFL_SIR_LRM_2_20180629T151107_20180629T152536_C001  (Retracker 3), Backscatter Error (Retracker 3), Height Error (Retracker 3), Backscatter Error (Retracker 3),	CS_OFFL_SIR_LRM_220180629T144936_20180629T150626_C001	(Retracker 3), Backscatter Error (Retracker 2)	
CS_OFFL_SIR_LRM_2_20180629T153820_20180629T155551_C001  (Retracker 3), Backscatter Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20180629T155721_20180629T161121_C001  (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (R	CS_OFFL_SIR_LRM_220180629T151107_20180629T152536_C001	(Retracker 3), Backscatter Error (Retracker 2)	
Error (Retracker 2) Height Error (Retracker 2), Height Error  CS_OFFL_SIR_LRM_2_20180629T162824_20180629T164334_C001  Error (Retracker 2), Height Error  (Retracker 3), Backscatter Error	CS_OFFL_SIR_LRM_220180629T153820_20180629T155551_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_220180629T162824_20180629T164334_C001 (Retracker 3), Backscatter Error in the property of th	CS_OFFL_SIR_LRM_220180629T155721_20180629T161121_C001	Height Error (Retracker 2), Backscatter	· ·
	CS_OFFL_SIR_LRM_220180629T162824_20180629T164334_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error

00.0751.015.1514.0.00400000000000000000000000	Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220180629T164536_20180629T165459_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220180629T171748_20180629T171850_C001	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_220180629T172151_20180629T173400_C001	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_220180629T174115_20180629T174304_C001	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_220180629T175716_20180629T180518_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180629T180759_20180629T182241_C001	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_220180629T185939_20180629T193230_C001	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_220180629T193553_20180629T193800_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180629T193830_20180629T194402_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20180629T194756_20180629T201151_C001	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_220180629T204434_20180629T205501_C001	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_220180629T210038_20180629T211118_C001	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_220180629T212638_20180629T215414_C001	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_220180629T215818_20180629T220331_C001	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_220180629T221739_20180629T224953_C001	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_220180629T234138_20180629T234422_C001	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_20180629T235625_20180630T002945_C001	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_SIN_2_20180629T012214_20180629T012632_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180629T013212_20180629T013335_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180629T021145_20180629T021552_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T030006_20180629T030131_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T030952_20180629T031139_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T034813_20180629T034930_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T035354_20180629T035447_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T043910_20180629T044052_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T044624_20180629T044631_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T044754_20180629T045016_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T052807_20180629T053102_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180629T053149_20180629T053401_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20180629T061802_20180629T062010_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T062522_20180629T062528_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T062538_20180629T062545_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T062653_20180629T063124_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T071739_20180629T071812_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180629T075816_20180629T080051_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T080420_20180629T080427_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T080810_20180629T080953_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T093703_20180629T093833_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T094333_20180629T094340_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T094709_20180629T094845_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T103553_20180629T103618_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180629T111715_20180629T111831_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T112405_20180629T112724_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T121519_20180629T121614_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180629T125634_20180629T125752_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T130301_20180629T130612_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T143728_20180629T144006_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T144204_20180629T144737_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

	1	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220180629T153257_20180629T153746_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_220180629T162114_20180629T162218_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T162616_20180629T162754_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T171201_20180629T171310_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T171416_20180629T171540_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T174341_20180629T174958_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180629T175455_20180629T175715_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T180518_20180629T180706_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T185118_20180629T185328_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180629T193404_20180629T193552_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T193800_20180629T193829_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T194403_20180629T194627_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T202449_20180629T202511_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180629T202608_20180629T202638_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180629T211332_20180629T211513_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T211619_20180629T211801_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T212242_20180629T212318_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T212358_20180629T212521_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T225339_20180629T225710_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180629T230243_20180629T230359_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode 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	141	141	141	0	0
SIR_LRM_2	140	140	140	0	0
SIR_LRMI2_	140	140	140	0	0
SIR_SAR_1B	96	96	96	0	0
SIR_SAR_2	96	96	96	0	0
SIR_SARI2_	96	96	96	0	0
SIR SIN 1B	108	108	108	0	0
SIR_SIN_2	108	108	108	0	0
SIR_SINI2	108	108	108	0	0
SIR GDR 2	15	15	15	0	0

# 6.1 QCC Errors

Number of products with QCC errors:

0

## 6.2 QCC Warnings

Number of QCC reports with warnings

0

## 6.2 Missing QCC Reports

Number of products with missing QCC reports:

181