



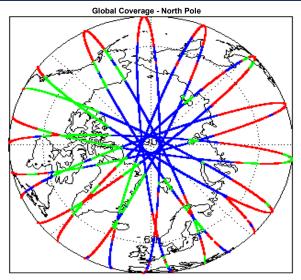
1. Overview

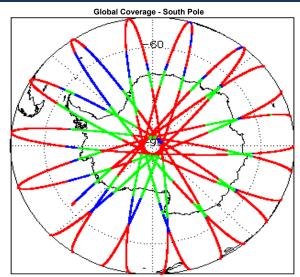
Report Production Date:	14-Feb-2019	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

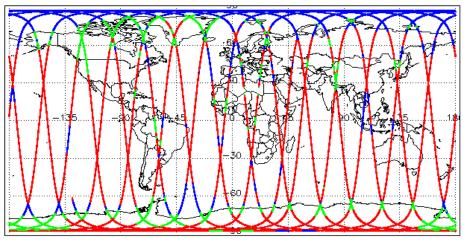
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2 and 5.2
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary 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

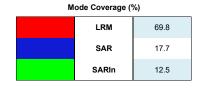
M	Mission / Instrument News		
	14-Jan-2019	None	
	15-Jan-2019	None	
	16-Jan-2019	Nothing planned	

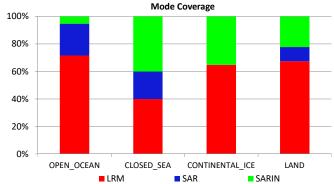
2. Global Coverage

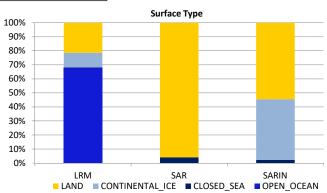












3. Instrument Configuration

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

Product	Test Failed
CS_OFFL_SIR_SAR_1B_20190115T044250_20190115T044252_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_1B_20190115T131338_20190115T131339_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_1B_20190115T044236_20190115T044238_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_1B_20190115T181328_20190115T181329_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.

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:

Λ

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:

0

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:

Λ

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:

0

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:

0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

3

Product	Test Failed
CS_OFFL_SIR_SAR_220190115T044250_20190115T044251_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_220190115T044236_20190115T044238_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_220190115T181328_20190115T181329_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.

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:

C

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_220190115T001353_20190115T002711_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_220190115T002921_20190115T003531_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_220190115T003731_20190115T004536_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190115T004921_20190115T012257_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_2_20190115T015739_20190115T020546_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_2_20190115T021707_20190115T022223_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190115T022758_20190115T025037_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_20190115T031443_20190115T031514_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_2_20190115T033411_20190115T033929_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_220190115T034117_20190115T035246_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_2_20190115T035830_20190115T040124_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190115T040753_20190115T044046_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_220190115T045742_20190115T050433_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_220190115T050446_20190115T052901_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_2_20190115T054659_20190115T061615_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_220190115T063754_20190115T065337_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_220190115T070230_20190115T071120_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_220190115T071717_20190115T071947_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190115T072631_20190115T074122_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_2_20190115T074302_20190115T074755_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_2_20190115T081954_20190115T082704_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_20190115T082827_20190115T085225_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_20190115T090604_20190115T092952_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_2_20190115T095703_20190115T103105_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_2_20190115T104430_20190115T111302_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_20190115T113853_20190115T115332_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_2_20190115T115907_20190115T120958_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_2_20190115T122357_20190115T123920_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_2_20190115T124105_20190115T124937_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

COUNT SELECTION AND SELECTION OF THE SEL	CS_OFFL_SIR_LRM_220190115T131457_20190115T134948_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
COUNTY SHALL PRO 1 PO 10 DO 20 JUNE 15 THANKS JUNE	CS_OFFL_SIR_LRM_220190115T141201_20190115T141918_C001	(Retracker 3), Backscatter Error	
Co., OFFILINITY_2010011510067_201011510067_001 Co., OFFI_RE1010201001151067_20101510067_001 Co., OFFI_RE10102010011510067_00101510067_001 Co., OFFI_RE10102010011510067_00101510067_001 Co., OFFI_RE10102010011510067_00101510067_00101510067_001 Co., OFFI_RE10102010011510067_00101510067_00101510067_0010 Co., OFFI_RE1010201001510067_00101510067_00101510067_0010 Co., OFFI_RE1010201001510067_00101510067_00	CS_OFFL_SIR_LRM_220190115T145445_20190115T150341_C001	Height Error (Retracker 2), Backscatter	
COUNT_BIT_LINE_2_2010115115801_2010115115800_2010 COUNT_BIT_LINE_2_2010115115801_2010115115800_2010 COUNT_BIT_LINE_2_2010115115801_2010115115800_2010 COUNT_BIT_LINE_2_2010115115801_2010115115800_2010 COUNT_BIT_LINE_2_2010115115800_2010115115800_2010 COUNT_BIT_LINE_2_2010115115800_2010115115800_2010 COUNT_BIT_LINE_2_2010115115800_2010115115800_2010 COUNT_BIT_LINE_2_2010115115800_2010115115800_2010 COUNT_BIT_LINE_2_2010115115800_201015115800_2010 COUNT_BIT_LINE_2_2010115115800_201015115800_2010 COUNT_BIT_LINE_2_2010115115800_2010 COUNT_BIT_LINE_2_2010	CS_OFFL_SIR_LRM_220190115T150627_20190115T152823_C001	(Retracker 3), Backscatter Error	
Section Control Contro	CS_OFFL_SIR_LRM_220190115T154158_20190115T155459_C001	Height Error (Retracker 2), Backscatter	
Legic (Entroducer) Legic	CS_OFFL_SIR_LRM_220190115T155647_20190115T160405_C001		
CS_OFF_SR_LEN_2_2019011571933_2000115717020_C001 Suppose Model Usership No. DEFA of Stops Mode was used for the location of one or more records. See Early See Early 20190115717333_2000115717030_C001 Height Early 20190115717333_2000115717333_2000115717335_C001 Height Early (Response 2), Basic cells and See Early California (Response 2) and Early Early and Seasocates error for Resource 2 for or or more seconds. CL_OFF_SR_LEN_2_20190115717333_2000115717355_C001 Height Early (Response 2), Basic cells Early E	CS_OFFL_SIR_LRM_220190115T160501_20190115T160907_C001		
Sept. Ent. (Retasser 2), Bodiescated Processor (Retasser 2) and a height and bodiescater crons for features 2 for one or more records and the sept. (Retasser 2) and a height and records and recor	CS_OFFL_SIR_LRM_220190115T163532_20190115T170740_C001	(Retracker 3), Backscatter Error	
Sec. OFFL_SIR_LEM_2_20160115T12934_20160115T129356_0001 City (Relatable 2) City (Rel	CS_OFFL_SIR_LRM_2_20190115T171454_20190115T171726_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Extra (Retrocker 2). Height Error (Retrocker 2) and a height error	CS_OFFL_SIR_LRM_2_20190115T172537_20190115T173807_C001		· ·
CS_OFFL_SIR_LENU_2_201001157120300_20100115712001C001 CS_OFFL_SIR_LENU_2_201001157190300_20100115712001C001 CS_OFFL_SIR_LENU_2_201001157190300_20100115712001C001 CS_OFFL_SIR_LENU_2_2010011571203000_20100115712001C001 CS_OFFL_SIR_LENU_2_2010011571203000_20100115712001C001 CS_OFFL_SIR_LENU_2_2010011571203000_20100115712001C001 CS_OFFL_SIR_LENU_2_2010011571203000_20100115712001C001 CS_OFFL_SIR_LENU_2_2010011571203000_20100115712001C001 CS_OFFL_SIR_LENU_2_2010011571203000_20100115712001C001 CS_OFFL_SIR_LENU_2_2010011571203000_20100115712001C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120001_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120001_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120001_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120000_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120000_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120000_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120000_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120000_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120000_C001 CS_OFFL_SIR_LENU_2_201001157120000_201001157120000_C001 CS_OFFL_SIR_LENU_2_20100115720000_201001157120000_C001 CS_OFFL_SIR_LENU_2_201001157200000_2010011570000000000000000000000000000000	CS_OFFL_SIR_LRM_2_20190115T173833_20190115T175555_C001		
CS_OFFL_SIR_LRM_2_20190115T190342_20190115T191044_2001 CS_OFFL_SIR_LRM_2_20190115T190342_20190115T190347_CO01 CS_OFFL_SIR_LRM_2_20190115T190347_CO01 CS_OFFL_SIR_LRM_2_20190115T190347_CO01 CS_OFFL_SIR_LRM_2_20190115T190347_CO01 CS_OFFL_SIR_LRM_2_20190115T190347_CO01 CS_OFFL_SIR_LRM_2_20190115T190347_CO01 CS_OFFL_SIR_LRM_2_20190115T120300_20190115T20303_CO01 CS_OFFL_SIR_LRM_2_20190115T20300_20190115T20303_CO01 CS_OFFL_SIR_LRM_2_20190115T20300_20190115T20303_CO01 CS_OFFL_SIR_LRM_2_20190115T20300_20190115T20303_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T20433_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T201000_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T2010000_20190115T204430_CO01 CS_OFFL_SIR_LRM_2_20190115T20100000000000000000000000000000000	CS_OFFL_SIR_LRM_2_20190115T181722_20190115T182900_C001	(Retracker 3), Backscatter Error	
Eror (Retracker 2) Roordes CS_OFFL_SIR_LRM_2_20190115T19303_20190115T193047_C001 Retracker 3, Backscatter Error (Retracker 2, Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscat	CS_OFFL_SIR_LRM_2_20190115T183103_20190115T184642_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LEM_2_201901157199306_20190115721192_C001 CS_OFFL_SIR_LEM_2_20190115720306_20190115721192_C001 CS_OFFL_SIR_LEM_2_20190115720306_20190115720201_C001 CS_OFFL_SIR_LEM_2_20190115720206_20190115720201_C001 CS_OFFL_SIR_LEM_2_20190115720206_201901157202001_C001 CS_OFFL_SIR_LEM_2_20190115720206_201901157202001_C001 CS_OFFL_SIR_LEM_2_20190115720206_201901157202001 CS_OFFL_SIR_LEM_2_2019011572006_201901157202001 CS_OFFL_SIR_LEM_2_2019011572006_201901157202006_201901157200001 CS_OFFL_SIR_LEM_2_2019011572006_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157201546_C001 CS_OFFL_SIR_LEM_2_2019011572006_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157201546_C001 CS_OFFL_SIR_LEM_2_201901157200507_20190115720452_C001 CS_OFFL_SIR_LEM_2_201901157200507_20190115720454_C001 CS_OFFL_SIR_LEM_2_201901157200507_201901157000731_C001 CS_OFFL_SIR_LEM_2_201901157000507_201901157000731_C001 CS_OFFL_SIR_SIN_2_201901157000507_201901157000464_C001 CS_OFFL_SIR_SIN_2_201901157000507_201901157000464_C001 CS_OFFL_SIR_SIN_2_201901157000507_201901157000464_C001 CS_OFFL_SIR_SIN_2_201901157000507_201901157000464_C001 CS_OFFL_SIR_SIN_2_201901157000507_201901157000507_20001 CS_OFFL_SIR_SIN_2_201901157000507_201	CS_OFFL_SIR_LRM_2_20190115T190238_20190115T191044_C001		
Eiror (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 3) Backscatter Error (Retracker 3) Backscatter Error (Retracker 2) Backscatter Error (Retracker 3) Backscatter Error (Retrac	CS_OFFL_SIR_LRM_2_20190115T191933_20190115T193047_C001	(Retracker 3), Backscatter Error	
OS OFFL_SIR_LRM_2_201901157220209_201901157220533_C001 CS_OFFL_SIR_LRM_2_201901157220209_201901157220533_C001 CS_OFFL_SIR_LRM_2_201901157221221_201901157221544_C001 Surface Model Unavailable No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe Model was used for the location of one or more records No DEM or Skipe 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 3), Backscatter	CS_OFFL_SIR_LRM_2_20190115T203906_20190115T211323_C001		
Enror (Retracker 2) CS_OFFL_SIR_LRM_2_20190115T221221_20190115T221548_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Retracker 2) Retracker 2, Height Error (Retracker 2) Retracker 3 for one or more records SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20190115T003807_20190115T003731_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error	CS_OFFL_SIR_LRM_2_20190115T214050_20190115T220201_C001	(Retracker 3), Backscatter Error	
Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatte	CS_OFFL_SIR_LRM_220190115T220209_20190115T220533_C001		
CS_OFFL_SIR_IRM_2_20190115T221813_20190115T224730_C001 CRetracker 3). Backscatter Error (Retracker 2) the light Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2) through the records (Retracker 3). Backscatter Error (Retracker 3	CS_OFFL_SIR_LRM_2_20190115T221221_20190115T221548_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_IRM_2_20190115T234432_C001 (Retracker 3) Backscatter Error (Retracker 3) Earth Care or more records SARIN X-track Angle Error SARIN X-track A	CS_OFFL_SIR_LRM_220190115T221813_20190115T224730_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_SIN_2_20190115T004537_20190115T004648_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more r	CS_OFFL_SIR_LRM_220190115T231455_20190115T234432_C001	(Retracker 3), Backscatter Error	
SARIN X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more	CS_OFFL_SIR_SIN_220190115T003607_20190115T003731_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190115T022224_20190115T022529_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_2_20190115T004537_20190115T004648_C001	SARIn X-track Angle Error	•
CS_OFFL_SIR_SIN_2_20190115T035526_20190115T035830_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T053602_20190115T053836_C001 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T054031_20190115T054254_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T054031_20190115T054655_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T063113_20190115T063232_C001 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T063113_20190115T063754_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T063632_20190115T063754_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T071120_20190115T077116_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_2_20190115T021542_20190115T021707_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190115T040124_20190115T040504_C001 SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20190115T053602_20190115T053836_C001 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T054031_20190115T054254_C001 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T054521_20190115T054655_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T063113_20190115T063232_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T063113_20190115T063754_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T063632_20190115T063754_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T071120_20190115T071716_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_220190115T022224_20190115T022529_C001	SARIn X-track Angle Error	
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CS_OFFL_SIR_SIN_2_20190115T063632_20190115T063754_C001 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T071120_20190115T071716_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T071947_20190115T072011_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_220190115T054521_20190115T054655_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_201901151003632_201901151003794_C001 SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_2_20190115T063113_20190115T063232_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190115T071947_20190115T072011_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190115T072437_20190115T072011_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_220190115T063632_20190115T063754_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_201901151071947_201901151072011_C001 SARIN X-track Angle Error records CS_OFFL_SIR_SIN_2_201901151071947_201901151072011_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more	CS_OFFL_SIR_SIN_2_20190115T071120_20190115T071716_C001	SARIn X-track Angle Error	
	CS_OFFL_SIR_SIN_220190115T071947_20190115T072011_C001	SARIn X-track Angle Error	
	CS_OFFL_SIR_SIN_2_20190115T072437_20190115T072617_C001	SARIn X-track Angle Error	

CS_OFFL_SIR_SIN_220190115T080552_20190115T080632_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_220190115T081046_20190115T081255_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T085324_20190115T085459_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T090352_20190115T090553_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T094959_20190115T095444_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_20190115T103300_20190115T103427_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T103609_20190115T103714_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T104141_20190115T104408_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T121237_20190115T121629_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T122219_20190115T122343_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T130305_20190115T130402_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_20190115T135222_20190115T135535_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T140050_20190115T140201_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T152947_20190115T153408_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T153952_20190115T154112_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T161921_20190115T162331_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T170746_20190115T170905_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T171726_20190115T171914_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T175556_20190115T175720_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T175848_20190115T175938_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T180134_20190115T180234_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T184651_20190115T184833_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T185403_20190115T185409_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T185532_20190115T185756_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T193552_20190115T193846_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_220190115T193928_20190115T194139_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_220190115T202537_20190115T202753_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T203302_20190115T203307_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T203317_20190115T203323_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T203433_20190115T203858_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T220554_20190115T220826_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190115T221159_20190115T221205_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T221215_20190115T221221_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T221548_20190115T221731_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190115T234445_20190115T234614_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_2__20190115T235112_20190115T235119_C001

CS_OFFL_SIR_SIN_2__20190115T235448_20190115T235625_C001

SARIn X-track Angle Error

An ambiguous angle was detected for SARIn mode for one or more records

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	162	162	162	0	0
SIR_LRM_2	161	161	161	0	0
SIR_LRMI2_	161	161	161	0	0
SIR_SAR_1B	130	130	130	0	0
SIR_SAR_2	129	129	129	0	0
SIR_SARI2_	129	129	129	0	0
SIR_SIN_1B	104	104	104	0	0
SIR_SIN_2	104	104	104	0	0
SIR_SINI2	104	104	104	0	0
SIR GDR 2	14	14	14	0	0

6.1	QCC	Errors
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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:

190