



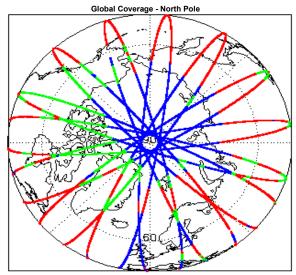
# 1. Overview

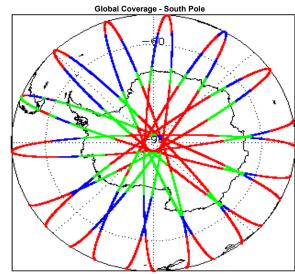
Report Production Date:	15-Sep-2017		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

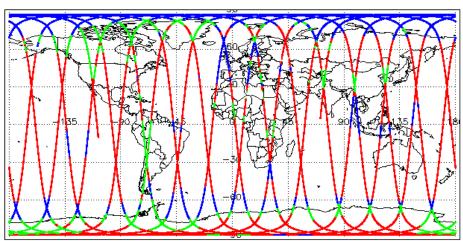
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File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

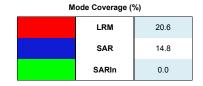
Mission / Instrument News			
16-Aug-2017	None		
17-Aug-2017	None		
18-Aug-2017	Nothing planned		

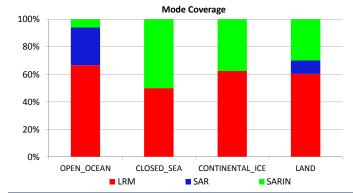
# 2. Global Coverage

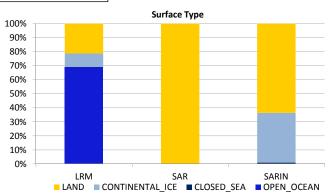












# 3. Instrument Configuration

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_20170817T035640_20170817T035645_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_20170817T072959_20170817T074339_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_20170817T121023_20170817T121329_C001		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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_2_20170816T234415_20170817T001223_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_220170817T004221_20170817T010745_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_220170817T011621_20170817T011948_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170817T012352_20170817T013422_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_220170817T014000_20170817T015725_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_220170817T020920_20170817T021631_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_220170817T021948_20170817T023005_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_220170817T024258_20170817T024710_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_220170817T025108_20170817T025645_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170817T030426_20170817T033649_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_220170817T033737_20170817T033817_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_220170817T033847_20170817T034006_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_220170817T040917_20170817T042504_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_220170817T044243_20170817T051814_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 for Retracker 3 for one or more records
CS OFFL SIR LRM 2 20170817T052753 20170817T053003 C001	(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20170817T054017_20170817T054438_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170817T054533_20170817T060308_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20170817T061238_20170817T061443_C001	Error (Retracker 2) Surface Model Unavailable	records  No DEM or Slope Model was used for the location of one or more records
	Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220170817T062228_20170817T064247_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220170817T064345_20170817T065819_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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_220170817T071005_20170817T072850_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170817T072959_20170817T074339_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_2_20170817T080122_20170817T081614_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	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_20170817T081816_20170817T082739_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	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_20170817T084903_20170817T090658_C001	(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_220170817T102943_20170817T103155_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_20170817T103319_20170817T110453_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_220170817T110830_20170817T111041_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170817T111059_20170817T111645_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170817T112108_20170817T114452_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_220170817T121653_20170817T121842_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_220170817T121852_20170817T122738_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_220170817T123314_20170817T124349_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_20170817T125958_20170817T132503_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_220170817T133054_20170817T133750_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_220170817T135035_20170817T142124_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_220170817T151425_20170817T151644_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_20170817T152913_20170817T160147_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_220170817T161941_20170817T163551_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_220170817T165347_20170817T165453_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_20170817T170532_20170817T174034_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_220170817T174909_20170817T175308_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170817T175813_20170817T182405_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_220170817T182421_20170817T183209_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_20170817T184358_20170817T185829_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

G. CPR, SPR. 19. 2. 2016/01/11/2003 (2016)  G. CPR, SPR. 19. 2. 20		Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Find   Telescope   1   Note   1		Error (Retracker 2)	records
Co. OFF, 1981 (2.1.) 20/07/07/17/2002 20/07/07/17/2002 (1) Control off the control of the contro	CS_OFFL_SIR_LRM_220170817T193849_20170817T195128_C001	Error (Retracker 2)	records
Co. CHE, SRI, USA 2. 20170917120002. 20170917120000. CO. CHE, SRI, USA 2. 20170917120000. 2017091712000. CO. CHE, SRI, USA 2. 20170917120000. CO. CHE, SRI, USA 2. 20170917120000. CO. CHE, SRI, USA 2. 2017091712000. CO. CHE, SRI, USA 2. 20170917120000. CO. CHE, SRI, USA 2. 201709171200000. CO. CHE, SRI, USA 2. 201709171200000. CO. CHE, SRI, USA 2. 201709171200000. CO. CHE, SRI, USA 2. 2017091712000000000000000000000000000000	CS_OFFL_SIR_LRM_220170817T195343_20170817T201230_C001	(Retracker 3), Backscatter Error (Retracker 2)	
Co. CPFL_SRI_MAY01700471720440_001004  Co. CPFL_SRI_MAY01700471720440_001004  Co. CPFL_SRI_MAY01700471720400_001004  Co. CPFL_SRI_MAY01700471720400_001004004  Co. CPFL_SRI_MAY01700471720400_001004  Co. CPFL_SRI_MAY01700471720400_0	CS_OFFL_SIR_LRM_220170817T203302_20170817T204211_C001	(Retracker 3), Backscatter Error (Retracker 2)	
Cap	CS_OFFL_SIR_LRM_220170817T204214_20170817T204232_C001	(Retracker 3), Backscatter Error	
Co. OFT. SR. LEW DOTTON TYCHOLOGY D	CS_OFFL_SIR_LRM_220170817T204508_20170817T205901_C001		
GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MOPOTRETTOSAS_OUTGETTENSSS_COT GB_CPF_SRIP_MO_POTRETTOSAS_OUTGETTENSSS_COT GB_C	CS_OFFL_SIR_LRM_220170817T213442_20170817T213720_C001	(Retracker 3), Backscatter Error	
Co. CPF_SRI_MN_2_POTRETTPSAFE_DOTRETTPSAFE	CS_OFFL_SIR_LRM_220170817T213843_20170817T214555_C001	(Retracker 3), Backscatter Error (Retracker 2)	
CS_OFFL_SIR_LEM_2_201708171292642_20170817109094_CDD01 CS_OFFL_SIR_SIR_S_2_201708171292642_20170817109094_CDD01 CS_OFFL_SIR_SIR_S_2_201708171709094_CD109171091169_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD10917109171091709189_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD1091710917091709189_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD109170917091709189_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD109170917091709199_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD109170917091709199_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD109170917091709199_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD109170917091709199_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709095_CD10917091709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD109171709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD109171709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD109171709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD109171709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD109171709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD109171709199_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD01091709189_CD01 CS_OFFL_SIR_S_SIR_S_2_201708171709399_CD0109171709189_CD01091709189_CD01091709189_CD01091709189_CD01091709189_CD01091709189_CD01091709189_CD01091709189_CD010917	CS_OFFL_SIR_LRM_220170817T214718_20170817T214933_C001	(Retracker 3), Backscatter Error	
Page   Enter   Company	CS_OFFL_SIR_LRM_220170817T224639_20170817T224818_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
General Section 1.5   Content Section 1.5	CS_OFFL_SIR_LRM_220170817T225356_20170817T231739_C001		
SARIO, Kuteck Ange Error  SARIO, Kuteck Ange Error  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SCE, OFFL, Birl, Shi, 2, 20170917101642, 20170917101609, 2001  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SCE, OFFL, Birl, Shi, 2, 20170917103646, 20170917103093, 2001  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SCE, OFFL, Birl, Shi, 2, 20170917103646, 20170917103093, 2001  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SCE, OFFL, Birl, Shi, 2, 20170917103640, 20170917103003, 2001  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SCE, OFFL, Birl, Shi, 2, 20170917103640, 20170917103000, 2001  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SCE, OFFL, Birl, Shi, 2, 201709171042007, 20170917103000, 2001  SARIO, Kuteck Ange Error  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SCE, OFFL, Birl, Shi, 2, 201709171042007, 20170917104300, 2001  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebed for SARIO mode for one or more records.  SARIO, Kuteck Ange Error  An ambiguous angle was celebe	CS_OFFL_SIR_LRM_220170817T235246_20170818T001654_C001	(Retracker 3), Backscatter Error	
SARIN X-rack Angle Error  SARIN X-rack Angle	CS_OFFL_SIR_SIN_220170817T010937_20170817T011109_C001	,	
SAPIR X-track Angle Error  SAPIR X-track Angle E	CS_OFFL_SIR_SIN_220170817T011614_20170817T011620_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
S. GFFL_SR_SN_2_20170817702685_20170817102610_0010  S. GFFL_SR_SN_2_201708171026842_01708171026012_0001  S. GFFL_SR_SN_2_20170817102680_201708171026002_0010  S. GFFL_SR_SN_2_20170817102680_201708171026002_0010  S. GFFL_SR_SN_2_20170817102680_201708171026002_0010  S. GFFL_SR_SN_2_20170817102600_201708171026002_0010  S. GFFL_SR_SN_2_201708171026002_00108171026002_0010  S. GFFL_SR_SN_2_201708171026002_00108171026002_0010  S. GFFL_SR_SN_2_201708171026002_00108171026002_0010  S. GFFL_SR_SN_2_201708171026002_00108171026002_0010  S. GFFL_SR_SN_2_201708171026002_00108171026002_001081706002_001081000000000000000000000000000000	CS_OFFL_SIR_SIN_220170817T011948_20170817T012122_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SOFT_SIR_SIN_2_20170917102694_20170917103000_C001  SARIN X-track Angle Error  SARIN X-track Angle Error  SARIN X-track Angle Error  SARIN X-track Angle Error  An archiguous angle was detected for SARIn mode for one or more excepts  SARIN X-track Angle Error  SARIN	CS_OFFL_SIR_SIN_220170817T024955_20170817T025107_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SOFFL_SIR_SIN_2_20170817102684_20170817103482_2001  ASARIN X-BEAK Angle Error  SARIN X-BEAK Angl		-	An ambiguous angle was detected for SARIn mode for one or more
SARIA X-rack Angle Error.  SARIA X-rack Angle Er		_	An ambiguous angle was detected for SARIn mode for one or more
SAFID X-Israel Angle Error.  SAFID X-Israel A			
SARIN X-track Angle Error  SARIN X-track Angle E			
SARIN X-track Angle Error SARIN X-track Angl			
So, OFFL_SIR_SIN_2_201708171008308_201708171062848_C0001 SARIN X-track Angle Error records SARIN X-track Ang		_	records
Scheft, Sirk, Sin. 2_20170817109432_20170817106501_C001  SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records. SARIN X-track Angle Error Part Review of the Sarin Market Review of the Sarin Mark		-	records
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.  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-t	CS_OFFL_SIR_SIN_220170817T060952_20170817T061238_C001	SARIn X-track Angle Error	records
GS_OFFL_SIR_SIN_2_201708171070452_S0170817075152_C001  SARIN X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error  SA	CS_OFFL_SIR_SIN_220170817T061443_20170817T062010_C001	SARIn X-track Angle Error	records
CS_OFF_SIR_SIN_2_20170817107692_CU10  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	CS_OFFL_SIR_SIN_220170817T070538_20170817T071005_C001	SARIn X-track Angle Error	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 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 wa	CS_OFFL_SIR_SIN_2_20170817T074917_20170817T075152_C001	SARIn X-track Angle Error	records
SARIN X-track Angle Error  SARIN X-track Angle E	CS_OFFL_SIR_SIN_2_20170817T075353_20170817T075505_C001	SARIn X-track Angle Error	records
SAIN X-track Angle Error  SARIN X-track Angle Error  SARIN SIN_2_201708171084572_201708171093756_20170817109393_C001  SARIN X-track Angle Error  SARIN X-tra	CS_OFFL_SIR_SIN_220170817T075854_20170817T080034_C001	SARIn X-track Angle Error	records
SARIN X-track Angle Error  SARIN X-track Angle E	CS_OFFL_SIR_SIN_220170817T084438_20170817T084513_C001	SARIn X-track Angle Error	
SARIN X-track Angle Error  SARIN X-track Angle E	CS_OFFL_SIR_SIN_220170817T084517_20170817T084548_C001	SARIn X-track Angle Error	
SARIN X-track Angle Error  SARIN X-track Angle E	CS_OFFL_SIR_SIN_220170817T084707_20170817T084902_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20170817T1093759_20170817T102849_C001  CS_OFFL_SIR_SIN_2_20170817T1102357_20170817T110849_C001  CS_OFFL_SIR_SIN_2_20170817T110640_20170817T110829_C001  CS_OFFL_SIR_SIN_2_20170817T1110640_20170817T1110829_C001  CS_OFFL_SIR_SIN_2_20170817T1110640_20170817T111059_C001  SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20170817T1110640_20170817T111059_C001  SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20170817T1110640_20170817T111059_C001  SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20170817T111646_20170817T1115749_C001  SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error, Surface Model Unavailable  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	CS_OFFL_SIR_SIN_220170817T092635_20170817T093003_C001	SARIn X-track Angle Error	ŭ ŭ
SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error  An ambiguous angle was detected for SARIN mode for one or more records  An	CS_OFFL_SIR_SIN_220170817T093756_20170817T093943_C001	SARIn X-track Angle Error	
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	CS_OFFL_SIR_SIN_220170817T102357_20170817T102849_C001		
SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error, Surface Model Was used for one or more records  SARIN X-track Angle Error, Surface Model Was used for one or more records  SARIN X-track Angle Error, Surface Model Was used for one or more records  SARIN X-track Angle Error, Surface Model Was used for one or more records  SARIN X-track Angle Error, Surface Model Was used for one or more records  SARIN X-track Angle Error, Surface Model Was used for one or more records  SARIN X-track Angle Error, Surface Model Was used for one or more records  SARIN X-track Angle Error  SARIN X-t	CS_OFFL_SIR_SIN_220170817T110640_20170817T110829_C001		An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170817T111646_20170817T111907_C001  SARIn X-track Angle Error, Surface Model Unavailable  SARIn X-track Angle Error, Surface Model was used for one or more records  CS_OFFL_SIR_SIN_2_20170817T115847_20170817T115920_C001  CS_OFFL_SIR_SIN_2_20170817T115847_20170817T115920_C001  CS_OFFL_SIR_SIN_2_20170817T1124612_20170817T1124751_C001  CS_OFFL_SIR_SIN_2_20170817T124612_20170817T124751_C001  CS_OFFL_SIR_SIN_2_20170817T124905_20170817T125038_C001  CS_OFFL_SIR_SIN_2_20170817T125507_20170817T125530_C001  CS_OFFL_SIR_SIN_2_20170817T125507_20170817T125753_C001  CS_OFFL_SIR_SIN_2_20170817T142613_20170817T142949_C001  CS_OFFL_SIR_SIN_2_20170817T142613_20170817T142949_C001  CS_OFFL_SIR_SIN_2_20170817T143526_20170817T143640_C001  CS_OFFL_SIR_SIN_2_20170817T151644_20170817T151712_C001  CS_OFFL_SIR_SIN_2_20170817T151644_20170817T151712_C001  CS_OFFL_SIR_SIN_2_20170817T151644_20170817T151712_C001  CS_OFFL_SIR_SIN_2_20170817T160533_20170817T160852_C001  CS_OFFL_SIR_SIN_2_20170817T160533_20170817T160852_C001  CS_OFFL_SIR_SIN_2_20170817T161405_20170817T161530_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  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 ambigu	CS_OFFL_SIR_SIN_220170817T111042_20170817T111059_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170817T115733_20170817T115749_C001  SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn M-track Angle Error SARIn M-track Angle Error SARIn M-track Angle Error SARIn M-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn M-track Angle Error SARIn M-track Angle Error SARIn M-track Angle Error 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 o	CS_OFFL_SIR_SIN_220170817T111646_20170817T111907_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170817T115847_20170817T115920_C001  CS_OFFL_SIR_SIN_2_20170817T124612_20170817T124751_C001  CS_OFFL_SIR_SIN_2_20170817T124905_20170817T125038_C001  CS_OFFL_SIR_SIN_2_20170817T125507_20170817T125038_C001  CS_OFFL_SIR_SIN_2_20170817T125507_20170817T125753_C001  CS_OFFL_SIR_SIN_2_20170817T142613_20170817T142949_C001  CS_OFFL_SIR_SIN_2_20170817T143526_20170817T143640_C001  CS_OFFL_SIR_SIN_2_20170817T143526_20170817T143640_C001  CS_OFFL_SIR_SIN_2_20170817T151644_20170817T151712_C001  CS_OFFL_SIR_SIN_2_20170817T151644_20170817T151712_C001  CS_OFFL_SIR_SIN_2_20170817T160533_20170817T160852_C001  CS_OFFL_SIR_SIN_2_20170817T160533_20170817T160852_C001  CS_OFFL_SIR_SIN_2_20170817T160533_20170817T161530_C001  CS_OFFL_SIR_SIN_2_20170817T161405_20170817T161530_C001  CS_OFFL_SIR_SIN_2_20170817T161405_20170817T161533_C001  CS_OFFL_SIR_SIN_2_20170817T161405_20170817T161530_C001  CS_OFFL_SIR_SIN_2_20170817T161	CS_OFFL_SIR_SIN_220170817T115733_20170817T115749_C001		An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_2_20170817T124612_20170817T124751_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_20170817T115847_20170817T115920_C001	SARIn X-track Angle Error, Surface	An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_2_20170817T124905_20170817T125038_C001  SARIn X-track Angle Error  SARIn X-track Angle Error, Surface  Model Unavailable  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
CS_OFFL_SIR_SIN_2_20170817T125507_20170817T125753_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
CS_OFFL_SIR_SIN_2_20170817T142613_20170817T142949_C001  SARIn X-track Angle Error  SARIn X-track Angle Error, Surface  Model Unavailable  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
CS_OFFL_SIR_SIN_2_20170817T143526_20170817T143640_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
CS_OFFL_SIR_SIN_2_20170817T151644_20170817T151712_C001  SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error Surface Model Was used for one or more records  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Was used 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  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
CS_OFFL_SIR_SIN_2_20170817T160533_20170817T160852_C001  SARIn X-track Angle Error  CS_OFFL_SIR_SIN_2_20170817T161405_20170817T161530_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		SARIn X-track Angle Error, Surface	An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_2_20170817T161405_20170817T161530_C001  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  An ambiguous angle was detected for SARIn mode for one or more			
CS_OFFL_SIR_SIN_2_201706171161405_201706171161530_C001  SARIII A-track Angle Error  CS_OFFL_SIR_SIN_2_201706171161623_201706171161530_C001  SARIII A-track Angle Error  SARIII A-track Angle Error  SARIII A-track Angle Error		-	
		_	records
	00_0FFL_0IN_0IIN_Z_Z01/001/1100023_Z01/081/1105/33_C001	SAMIII A-HACK ANGIE EFFOF	records

CS_OFFL_SIR_SIN_220170817T174246_20170817T174617_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T175309_20170817T175416_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T183210_20170817T183228_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T183232_20170817T183324_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T183536_20170817T183647_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T192051_20170817T192231_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T193011_20170817T193200_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T201319_20170817T201520_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T201523_20170817T201601_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_220170817T210010_20170817T210156_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T210841_20170817T211532_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T215258_20170817T215444_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_220170817T223915_20170817T224153_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170817T224818_20170817T225127_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	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_LRM_1B	142	142	142	0	0
SIR_LRM_2	140	140	140	0	0
SIR_LRMI2_	140	140	140	0	0
SIR_SAR_1B	89	89	89	0	0
SIR_SAR_2	89	89	89	0	0
SIR_SARI2_	89	89	89	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:

### 6.2 QCC Warnings

Number of QCC reports with warnings

# 6.2 Missing QCC Reports

Number of products with missing QCC reports:

173

0

0