



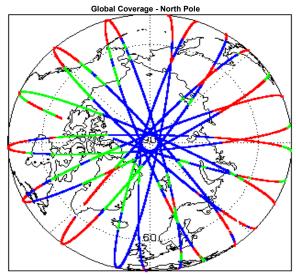
1. Overview

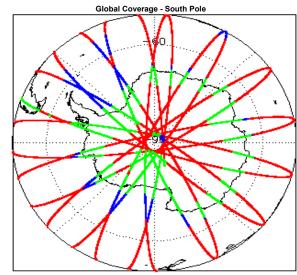
Report Production Date:	27-Apr-2017	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

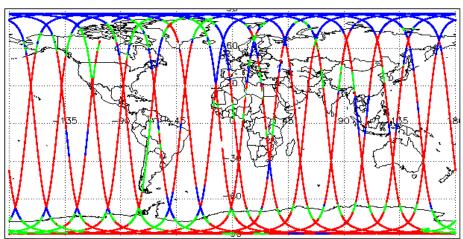
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File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

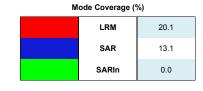
N	Mission / Instru	ment News
	28-Mar-2017	None
	29-Mar-2017	None
	30-Mar-2017	Nothing planned

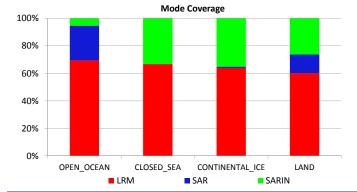
2. Global Coverage

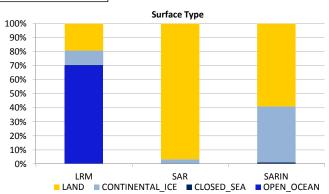












3. Instrument Configuration

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: 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:

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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:

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors: 100

Product	Test Failed	Description
	, ,	There is a height and backscatter error for Retracker 2 for one or more records
CS OFFE SIR FRM 2 201703291002217 201703291002927 C001	,	There is a height and backscatter error for Retracker 2 for one or more records
		There is a height and backscatter error for Retracker 2 for one or more records

CS OFFI SID IDM 2 20170220T040020 20170220T04220F C004	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_OFFL_SIR_LRM_220170329T010020_20170329T013305_C001	(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_220170329T015108_20170329T022119_C001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220170329T024157_20170329T025430_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_220170329T025634_20170329T031222_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_220170329T032827_20170329T033844_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_220170329T034503_20170329T035619_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_220170329T043212_20170329T043455_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_220170329T050444_20170329T053836_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_220170329T054053_20170329T054141_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_220170329T060632_20170329T063052_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_220170329T064339_20170329T071256_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_220170329T074418_20170329T081013_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_220170329T081654_20170329T082021_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170329T082305_20170329T083454_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_220170329T084031_20170329T085759_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_220170329T092022_20170329T092536_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170329T100229_20170329T103633_C001	Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170329T110143_20170329T110324_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_20170329T110951_20170329T112933_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_20170329T113105_20170329T113614_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_2_20170329T114132_20170329T121621_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220170329T124052_20170329T124513_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170329T124608_20170329T130344_C001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220170329T132209_20170329T133817_C001	Height Error (Retracker 2), Height Error (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_220170329T133820_20170329T134216_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_220170329T134415_20170329T135128_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_220170329T141123_20170329T142921_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_220170329T143224_20170329T144419_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_220170329T145226_20170329T145426_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170329T150107_20170329T151645_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_220170329T151846_20170329T152035_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_220170329T152037_20170329T152810_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_220170329T155342_20170329T155411_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_220170329T155602_20170329T160734_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_220170329T162325_20170329T162454_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_220170329T163035_20170329T163829_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20170329T164016_20170329T165550_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_20170329T173324_20170329T174254_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_220170329T174257_20170329T180637_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_20170329T180904_20170329T181115_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20170329T181135_20170329T181718_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20170329T181950_20170329T184517_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_220170329T191647_20170329T191922_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_0, 1 E_011/_E1XM_Z2011/00291191041_2011/00291191922_0001	(Retracker 2)	for Retracker 3 for one or more records

See OFFE, BRILDE 2. 2070020710000 207000070000 2010 ORD OFFE, BRILDE 2. 2070020710000 2070000700000 2010 ORD OFFE, BRILDE 2. 2070020710000 207000070000 2010 ORD OFFE, BRILDE 2. 2070020710000 207000070000 2010 ORD OFFE, BRILDE 2. 2070020710000 207000070000 2010 ORD OFFE, BRILDE 2. 2070000700000 207000070000 2010 ORD OFFE, BRILDE 2. 2070020710000 207000070000 2010 ORD OFFE, BRILDE 2. 2070000700000 20700000000000 2010 ORD OFFE, BRILDE 2. 2070000700000 207000000000000 2010 ORD OFFE, BRILDE 2. 20700000700000 207000000000000000000			
Part Bill Bill 2 2017/2007/2006 2 2017/	CS_OFFL_SIR_LRM_220170329T191925_20170329T192814_C001		
	CS_OFFL_SIR_LRM_220170329T193350_20170329T194538_C001		
Co. OFF. 38. No. 2. 2017/2017/2014 (2014) (2	CS_OFFL_SIR_LRM_220170329T195827_20170329T202802_C001	(Retracker 3), Backscatter Error	
Co. CPT_SILLENDCONTRODOTSSILLEND_CONTROLLENDS_CONTROL	CS_OFFL_SIR_LRM_220170329T205105_20170329T212442_C001	(Retracker 3), Backscatter Error	
Design Company Compa	CS_OFFL_SIR_LRM_220170329T222955_20170329T230406_C001	(Retracker 3), Backscatter Error	
Fig. Section Comparison	CS_OFFL_SIR_LRM_220170329T231621_20170329T233621_C001		
Sept. 1981 1991	CS_OFFL_SIR_LRM_220170329T234507_20170329T234645_C001		· ·
S. CFE, Sin S. W. 2017/32/07/07/07/07/07/07/32/07/07/07/07/07/07/07/07/07/07/07/07/07/	CS_OFFL_SIR_SIN_2_20170329T000524_20170329T000649_C001	SARIn X-track Angle Error	
CS OFF_SIR_SIR_2_201702019101317_201702017013405_C0011	CS_OFFL_SIR_SIN_2_20170329T004501_20170329T004902_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
Series Name 2_2017002071014314_2017020071043172_011001 Series Name Angle Primor Series Name An	CS_OFFL_SIR_SIN_2_20170329T013317_20170329T013452_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
See Deep Jalle Jan 2 2017/202710000 12017 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2017/202710000 12018 2018 2018 2018 2018 2018 201	CS_OFFL_SIR_SIN_2_20170329T014314_20170329T014458_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIO Accos Angle Error CS. CPFL_SML_SML_2_2017002010113127_2017002010131046_C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for one or more receipts. CS. CPFL_SML_SML_2017002010201020102010201020102010 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or or more receipts. An antigopous angle was detected for SARio mode for or or or more receipts. An antigopous angle was detected for SARio mode for or or or more receipts. CS. CPFL_SML_SML_20170020102010201702017000441 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_20170020100412 20170020100444 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_20170020100412 20170020100440 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_20170020100412 20170020100440 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_20170020100412 20170020100440 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_20170020100412 20170020100400 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_20170020100412 20170020100400 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_20170020100410 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_201700201004000 201700201004000 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode for or or more receipts. CS. CPFL_SML_SML_201700201104000 2017004000 C001 SARIO Accos Angle Error An antigopous angle was detected for SARio mode f	CS_OFFL_SIR_SIN_2_20170329T022704_20170329T022759_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SAFIN X-1984 Angle Error SAFIN X-1984 Angle	CS_OFFL_SIR_SIN_2_20170329T031222_20170329T031404_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN Krimak Angle Error SARIN Krimak Angle	CS_OFFL_SIR_SIN_220170329T031937_20170329T031945_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN Kittack Angle Error SARIN Kittack Angle Error An ambiguous angle was detected for SARIn mode for one or more SARIN Kittack Angle Error SARIN Kitta	CS_OFFL_SIR_SIN_220170329T032108_20170329T032326_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
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S. OFFL_SIR_SIN_2_20170329706004_201703297063402_C001 SARIN X-Yusuk Angle Error SARIN X-Yusuk Angle Error An ambiguous angle was detected for SARIn mode for one or more records. SARIN X-Yusuk 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. SARIN X-track Angle Error SARIN X-	CS_OFFL_SIR_SIN_220170329T045123_20170329T045317_C001		An ambiguous angle was detected for SARIn mode for one or more
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records		- Control of the cont	An ambiguous angle was detected for SARIn mode for one or more
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CS_OFFL_SIR_SIN_2_20170329T212648_20170329T213023_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170329T213558_20170329T213713_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170329T230607_20170329T230926_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170329T231438_20170329T231603_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170329T235653_20170329T235806_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	154	154	154	0	0
SIR_LRM_2	153	153	153	0	0
SIR_LRMI2_	153	153	153	0	0
SIR_SAR_1B	105	105	105	0	0
SIR_SAR_2	105	105	105	0	0
SIR_SARI2_	105	105	105	0	0
SIR_SIN_1B	102	102	102	0	0
SIR_SIN_2	102	102	102	0	0
SIR_SINI2	102	102	102	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

٥

6.2 Missing QCC Reports

Number of products with missing QCC reports:

198