

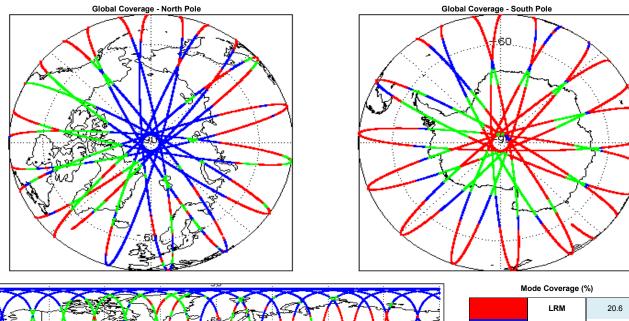
IDEAS+ Daily Report for OFFLINE data:

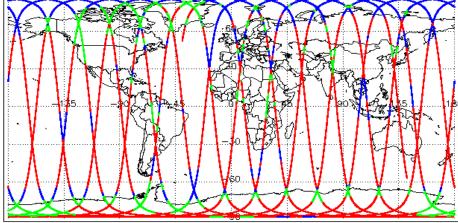
<u>16/01/2018</u>

Report Production Date:	14-Feb-2018	Check	Status	
Report Production Date.	14-2018	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used.		Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Osec.		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	

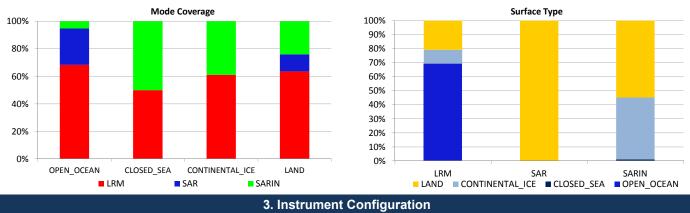
16-Jan-2018	None
17-Jan-2018	Nothing planned







M	Mode Coverage (%)		
	LRM	20.6	
	SAR	12.9	
	SARIn	0.0	



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

SIRAL instrument(s) in use: SIRAL - A

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: 0

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

0

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

Number of products with errors.

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: 0

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: 0

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: 104		
Product	Test Failed	Description
		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
	5	There is a height and backscatter error for Retracker 2 for one or more records
	5	There is a height and backscatter error for Retracker 2 for one or more records

CS_0FFL_SIR_LRM_220180116T011933_20180116T012108_C001
CS_OFFL_SIR_LRM_220180116T012722_20180116T012958_C001
CS_OFFL_SIR_LRM_220180116T013648_20180116T015130_C001
CS_OFFL_SIR_LRM_220180116T015310_20180116T015552_C001
CS_0FFL_SIR_LRM_220180116T023000_20180116T023550_C001
CS_OFFL_SIR_LRM_220180116T030510_20180116T031356_C001
CS_OFFL_SIR_LRM_220180116T031614_20180116T034008_C001
CS_0FFL_SIR_LRM_220180116T040708_20180116T044107_C001
CS_OFFL_SIR_LRM_220180116T045446_20180116T052033_C001
CS_OFFL_SIR_LRM_220180116T054841_20180116T060340_C001
CS_OFFL_SIR_LRM_220180116T060915_20180116T062009_C001
CS_OFFL_SIR_LRM_220180116T064244_20180116T065220_C001
CS_OFFL_SIR_LRM_220180116T072509_20180116T075953_C001
CS_OFFL_SIR_LRM_220180116T081744_20180116T083200_C001
CS_OFFL_SIR_LRM_220180116T090441_20180116T091349_C001
CS_OFFL_SIR_LRM_220180116T091635_20180116T093829_C001
CS_OFFL_SIR_LRM_220180116T095209_20180116T101411_C001
CS_OFFL_SIR_LRM_220180116T101504_20180116T101925_C001
CS_OFFL_SIR_LRM_220180116T104601_20180116T111755_C001
CS_OFFL_SIR_LRM_220180116T112502_20180116T112727_C001
CS_OFFL_SIR_LRM_220180116T113547_20180116T114814_C001
CS_OFFL_SIR_LRM_220180116T114901_20180116T120606_C001
CS_OFFL_SIR_LRM_220180116T122741_20180116T123910_C001
CS_0FFL_SIR_LRM_220180116T124114_20180116T125646_C001
CS_OFFL_SIR_LRM_220180116T132940_20180116T134119_C001
CS_OFFL_SIR_LRM_220180116T144908_20180116T151610_C001
CS_OFFL_SIR_LRM_220180116T155005_20180116T161538_C001
CS_OFFL_SIR_LRM_220180116T162230_20180116T162556_C001
CS_OFFL_SIR_LRM_220180116T162821_20180116T164206_C001
CS_OFFL_SIR_LRM_220180116T164555_20180116T165701_C001
CS_OFFL_SIR_LRM_220180116T172827_20180116T175443_C001
CS_OFFL_SIR_LRM_220180116T180129_20180116T180457_C001
CS_OFFL_SIR_LRM_220180116T180856_20180116T181935_C001
CS_OFFL_SIR_LRM_220180116T182509_20180116T184300_C001
CS_OFFL_SIR_LRM_220180116T193624_20180116T194152_C001
CS_OFFL_SIR_LRM_220180116T194747_20180116T202118_C001
CS_OFFL_SIR_LRM_220180116T204511_20180116T205136_C001
CS_OFFL_SIR_LRM_220180116T205403_20180116T211335_C001
CS_OFFL_SIR_LRM_220180116T211544_20180116T212049_C001
CS_OFFL_SIR_LRM_220180116T212648_20180116T220005_C001
CS_OFFL_SIR_LRM_220180116T222541_20180116T224824_C001
CS_OFFL_SIR_LRM_220180116T225800_20180116T225953_C001
CS_OFFL_SIR_LRM_220180116T230639_20180116T232145_C001
CS_OFFL_SIR_LRM_220180116T232148_20180116T232226_C001

Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2) Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)

There is a height and backscatter error for Retracker 2 for one or more No DEM or Slope Model was used for the location of one or more records. There is a height and backscatter error for Retracker 2 for one or more 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 There is a height and backscatter error for Retracker 2 for one or more No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more 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 There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more 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 There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more 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 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 There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more No DEM or Slope Model was used for the location of one or more records

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_2__20180116T232229_20180116T232412_C001 CS OFFL SIR LRM 2 20180116T232853 20180116T233719 C001 CS OFFL SIR SIN 2 20180116T004118 20180116T004235 C001 CS OFFL SIR SIN 2 20180116T004620 20180116T004749 C001 CS_OFFL_SIR_SIN_2__20180116T012109_20180116T012721_C001 CS OFFL SIR SIN 2 20180116T012959 20180116T013018 C001 CS OFFL SIR SIN 2 20180116T013446 20180116T013626 C001 CS_OFFL_SIR_SIN_2__20180116T022050_20180116T022301_C001 CS_OFFL_SIR_SIN_2_20180116T022355_20180116T022623_C001 CS_OFFL_SIR_SIN_2__20180116T030332_20180116T030509_C001 CS_OFFL_SIR_SIN_2__20180116T031357_20180116T031554_C001 CS OFFL SIR SIN 2 20180116T040007 20180116T040452 C001 CS OFFL SIR SIN 2 20180116T044308 20180116T044439 C001 CS OFFL SIR SIN 2 20180116T044615 20180116T044725 C001 CS OFFL SIR SIN 2 20180116T045148 20180116T045422 C001 CS_OFFL_SIR_SIN_2__20180116T062249_20180116T062639_C001 CS_OFFL_SIR_SIN_2__20180116T063227_20180116T063350_C001 CS OFFL SIR SIN 2 20180116T071313 20180116T071348 C001 CS_OFFL_SIR_SIN_2__20180116T071351_20180116T071405_C001 CS OFFL SIR SIN 2 20180116T080231 20180116T080544 C001 CS_OFFL_SIR_SIN_2__20180116T081058_20180116T081212_C001 CS_OFFL_SIR_SIN_2__20180116T093948_20180116T094410_C001 CS OFFL SIR SIN 2 20180116T095002 20180116T095118 C001 CS_OFFL_SIR_SIN_2__20180116T102918_20180116T103201_C001 CS_OFFL_SIR_SIN_2__20180116T103209_20180116T103335_C001 CS_OFFL_SIR_SIN_2__20180116T111755_20180116T111917_C001 CS_OFFL_SIR_SIN_2__20180116T112728_20180116T112914_C001 CS_OFFL_SIR_SIN_2__20180116T120607_20180116T120743_C001 CS OFFL SIR SIN 2 20180116T120753 20180116T121010 C001 CS_OFFL_SIR_SIN_2__20180116T121138_20180116T121241_C001 CS OFFL SIR SIN 2 20180116T125702 20180116T125844 C001 CS OFFL SIR SIN 2 20180116T130412 20180116T130419 C001 CS_OFFL_SIR_SIN_2_20180116T130539_20180116T130807_C001 CS OFFL SIR SIN 2 20180116T134931 20180116T135141 C001 CS_OFFL_SIR_SIN_2__20180116T143553_20180116T143810_C001 CS_OFFL_SIR_SIN_2__20180116T144311_20180116T144316_C001 CS OFFL SIR SIN 2 20180116T144326 20180116T144332 C001 CS OFFL SIR SIN 2 20180116T144445 20180116T144823 C001 CS_OFFL_SIR_SIN_2__20180116T153513_20180116T153548_C001 CS_OFFL_SIR_SIN_2_20180116T161600_20180116T161830_C001 CS_OFFL_SIR_SIN_2_20180116T162207_20180116T162214_C001 CS_OFFL_SIR_SIN_2__20180116T162556_20180116T162739_C001 CS OFFL SIR SIN 2 20180116T171534 20180116T171555 C001 CS_OFFL_SIR_SIN_2__20180116T175459_20180116T175625_C001 CS OFFL SIR SIN 2 20180116T180121 20180116T180128 C001 CS OFFL SIR SIN 2 20180116T180457 20180116T180637 C001 CS OFFL SIR SIN 2 20180116T193503 20180116T193623 C001 CS_OFFL_SIR_SIN_2__20180116T194152_20180116T194507_C001 CS_OFFL_SIR_SIN_2__20180116T203303_20180116T203358_C001 CS_OFFL_SIR_SIN_2__20180116T211430_20180116T211544_C001 CS OFFL SIR SIN 2 20180116T212049 20180116T212405 C001

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable 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 SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records 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 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 and no DEM or Slope 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 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 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 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 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 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 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

CS_OFFL_SIR_SIN_220180116T225523_20180116T225800_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180116T225953_20180116T230538_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180116T235037_20180116T235157_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180116T235432_20180116T235549_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	161	161	161	0	0
SIR_LRM_2	161	161	161	0	0
SIR_LRMI2_	161	161	161	0	0
SIR_SAR_1B	112	112	112	0	0
SIR_SAR_2	112	112	112	0	0
SIR_SARI2_	112	112	112	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		
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:	189	