



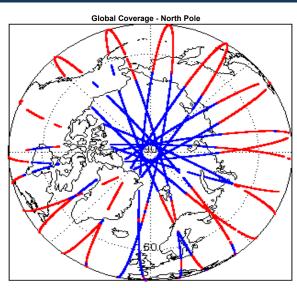
1. Overview

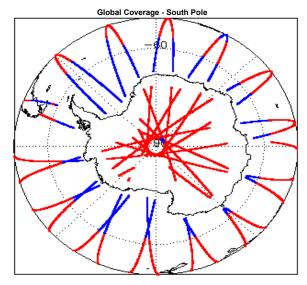
Report Production Date:	24-Jul-2017
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data

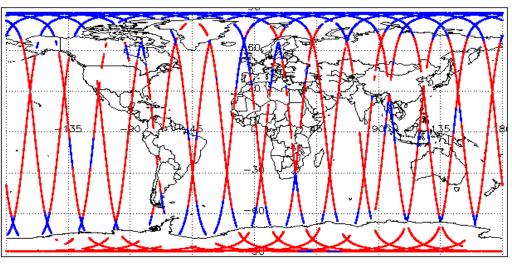
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6, 5.5, 5.6, 5.7 and 5.8

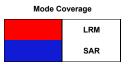
Mission / Instrument News			
20-Jul-2017	None		
21-Jul-2017	None		
22-Jul-2017	Nothing planned		

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

4. IOP 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 binary product file (.DBL).

Number of products with errors:

0

4.2 L1B Product Header Analysis

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

4.3 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:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 60) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20170721T015616_20170721T015640_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_1B_20170721T015725_20170721T023057_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_1B_20170721T033233_20170721T033916_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag (field 65) for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

9

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20170721T015725_20170721T023057_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T072555_20170721T073241_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T090631_20170721T091200_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T094057_20170721T095020_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T162640_20170721T162714_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T180644_20170721T180717_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T180857_20170721T181629_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T220754_20170721T222146_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170721T230959_20170721T231213_B001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP 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 binary product file (.DBL).

Number of products with errors:

0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed 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.

Wind Model File Usage: This file is currently not included in all L2 products.

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are two common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170720T232825_20170721T000044_B001	IGIM Ionospheric Correction	There is an error with the GIM lonospheric correction for one or more records
CS_OFFL_SIR_IOP_2_20170721T000044_20170721T000308_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T000308_20170721T000352_B001	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T001339_20170721T001449_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T034337_20170721T035250_B001	Lintal Geocentric Ocean Line (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170721T051451_20170721T051809_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_IOP_220170721T082058_20170721T082219_B001		more records
CS_OFFL_SIR_IOP_220170721T094057_20170721T095020_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T101246_20170721T102944_B001		There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T131754_20170721T132014_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T142227_20170721T144922_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_2_20170721T163251_20170721T163603_B001	requilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T180857_20170721T181629_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T220615_20170721T220753_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T230124_20170721T230817_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170721T231726_20170721T232440_B001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170721T015616_20170721T015640_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220170721T015725_20170721T023057_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220170721T033233_20170721T033916_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean (field 25) and Ice (field 30) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170721T005612_20170721T005943_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T005950_20170721T005959_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170721T010005_20170721T010333_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170721T023355_20170721T023857_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T023904_20170721T024231_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170721T041353_20170721T041928_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T042120_20170721T042130_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170721T055315_20170721T055823_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170721T073524_20170721T073727_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T091436_20170721T091636_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170721T091746_20170721T092137_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T100832_20170721T100946_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170721T105245_20170721T110039_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T123114_20170721T123324_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T123345_20170721T123927_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T141036_20170721T141147_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T141323_20170721T141754_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T155233_20170721T155807_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T173136_20170721T173648_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T190842_20170721T191135_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T191135_20170721T191141_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T191153_20170721T191550_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T195555_20170721T195819_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_2_20170721T204516_20170721T205034_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T205040_20170721T205046_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T205052_20170721T205253_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T222441_20170721T222945_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T222951_20170721T223002_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170721T223009_20170721T223124_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

CS_OFFL_SIR_IOP_2_20170721T00990_20170721T00999_B001 Cs_Backscatter Averaging Status Cs_OFFL_SIR_IOP_2_20170721T000990_20170721T00333_B001 Cs_GFL_SIR_IOP_2_20170721T00005_20170721T00333_B001 Cs_GFL_SIR_IOP_2_20170721T00335_20170721T023857_B001 Cs_GFL_SIR_IOP_2_20170721T02304_20170721T023857_B001 Cs_GFL_SIR_IOP_2_20170721T02304_20170721T02431_B001 Cs_GFL_SIR_IOP_2_20170721T02304_20170721T02431_B001 Cs_GFL_SIR_IOP_2_20170721T02304_20170721T02431_B001 Cs_GFL_SIR_IOP_2_20170721T02304_20170721T02431_B001 Cs_GFL_SIR_IOP_2_20170721T02304_20170721T02432_B001 Cs_GFL_SIR_IOP_2_20170721T02304_20170721T03583_B001 Cs_GFL_SIR_IOP_2_20170721T03534_20170721T03583_B001 Cs_GFL_SIR_IOP_2_20170721T03534_20170721T03583_B001 Cs_GFL_SIR_IOP_2_20170721T03534_20170721T03583_B001 Cs_GFL_SIR_IOP_2_20170721T03534_20170721T03524_3000 Cs_GFL_SIR_IOP_2_20170721T03534_20170721T03535_B001 Cs_GFL_SIR_IOP_2_20170721T03542_20170721T03535_B001 Cs_GFL_SIR_IOP_2_20170721T03542_20170721T03535_B001 Cs_GFL_SIR_IOP_2_20170721T03542_20170721T103935_B001 Cs_GFL_SIR_IOP_2_20170721T03542_20170721T10333_B001 Cs_GFL_SIR_IOP_2_20170721T03342_20170721T103345_B001 Cs_GFL_SIR_IOP_2_20170721T103345_20170721T103345_B001 Cs_GFL_SIR_IOP_2_20170721T103345_20170721T103354_B001 Cs_GFL_SIR_IOP_2_20170721T103345_20170721T103354_B001 Cs_GFL_SIR_IOP_2_20170721T103345_20170721T103354_B001 Cs_GFL_SIR_IOP_2_20170721T13345_20170721T13354_B001 Cs_GFL_SIR_IOP_2_20170721T13345_20170721T13354_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13344_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13344_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13344_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13448_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13344_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13548_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13548_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13548_B001 Cs_GFL_SIR_IOP_2_20170721T1335_20170721T13548_B001 Cs_GFL_SIR_IOP_2_20170721T13555_20170721T13548_B001 Cs_GFL_SIR_IOP_2_20170721T13555_20170721T13555	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20170721T003005_20170721T00333_B001	CS_OFFL_SIR_IOP_220170721T005612_20170721T005943_B001	Ice Backscatter Averaging Status	* * *
CS_OFFL_SIR_IOP_2_20170721T003355_20170721T0103355_D001 De Backscatter Averaging Status The Lee Backscatter Averaging Status The L	CS_OFFL_SIR_IOP_220170721T005950_20170721T005959_B001	Ice Backscatter Averaging Status	
CS_OFF_SIR_IOP_2_20170721T023904_20170721T024321_B001 CS_OFF_SIR_IOP_2_20170721T023904_20170721T0249231_B001 CS_OFF_SIR_IOP_2_20170721T023904_20170721T041928_B001 CS_OFF_SIR_IOP_2_20170721T035515_20170721T055823_B001 CS_OFF_SIR_IOP_2_20170721T073524_20170721T0973727_B001 CS_OFF_SIR_IOP_2_20170721T073524_20170721T091636_B001 CS_OFF_SIR_IOP_2_20170721T091746_20170721T091636_B001 CS_OFF_SIR_IOP_2_20170721T091746_20170721T091636_B001 CS_OFF_SIR_IOP_2_20170721T091746_20170721T091636_B001 CS_OFF_SIR_IOP_2_20170721T091746_20170721T091636_B001 CS_OFF_SIR_IOP_2_20170721T091746_20170721T091636_B001 CS_OFF_SIR_IOP_2_20170721T091746_20170721T094636_B001 CS_OFF_SIR_IOP_2_20170721T03345_20170721T100346_B001 CS_OFF_SIR_IOP_2_20170721T03345_20170721T103342_B001 CS_OFF_SIR_IOP_2_20170721T123345_20170721T103345_B001 CS_OFF_SIR_IOP_2_20170721T13345_20170721T143345_B001 CS_OFF_SIR_IOP_2_20170721T143345_20170721T143345_B001 CS_OFF_SIR_IOP_2_20170721T143345_20170721T143907_B001 CS_OFF_SIR_IOP_2_20170721T143345_20170721T143848_B001 CS_OFF_SIR_IOP_2_20170721T193345_20170721T193640_B001 CS_OFF_SIR_IOP_2_20170721T193345_20170721T193640_B001 CS_OFF_SIR_IOP_2_20170721T193555_20170721T1936504_B001 CS_OFF_SIR_	CS_OFFL_SIR_IOP_220170721T010005_20170721T010333_B001	Ice Backscatter Averaging Status	
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CS_OFFL_SIR_IOP_2_20170721T222941_20170721T223902_B001	CS_OFFL_SIR_IOP_220170721T205052_20170721T205253_B001	Ice Backscatter Averaging Status	
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	CS_OFFL_SIR_IOP_220170721T222951_20170721T223002_B001	Ice Backscatter Averaging Status	
	CS_OFFL_SIR_IOP_220170721T223009_20170721T223124_B001	Ice Backscatter Averaging Status	

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors: 147

6. IOP 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
Ī	SIR_IOP_1B	234	234	234	0	0
	SIR_IOP_2	233	233	233	0	0

6.1 QCC Errors

Number of QCC reports with errors:

Number of QCC reports with warnings

0

6.3 Missing QCC Reports

Number of products with missing QCC reports:

0