



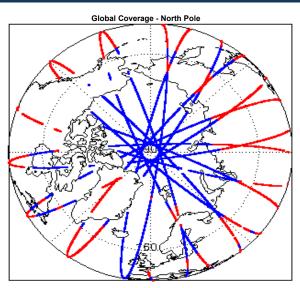
1. Overview

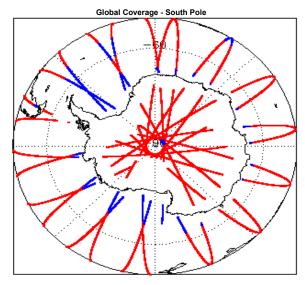
Report Production Date:	27-Mar-2017
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data

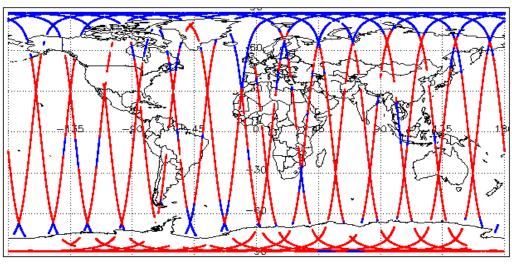
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

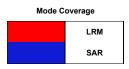
٨	Mission / Instrument News				
	22-Mar-2017	None			
	23-Mar-2017	None			
	24-Mar-2017	Nothing planned			

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

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:

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:

0

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_20170323T040355_20170323T040539_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T042642_20170323T044215_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T091643_20170323T092131_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T104729_20170323T105737_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T160000_20170323T160316_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T172536_20170323T173150_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T190546_20170323T190646_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T205850_20170323T211447_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170323T222224_20170323T222334_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_2_20170323T024120_20170323T024239_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_2_20170323T073120_20170323T074125_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_2_20170323T074125_20170323T074240_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_2_20170323T091643_20170323T092131_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_2_20170323T104649_20170323T104702_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_220170323T110600_20170323T110919_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_220170323T125329_20170323T131127_B001	Geoid Height, Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the Geoid height, the Total Geocentric Ocean Tide height (solution 2: FES) and Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_2_20170323T190246_20170323T190528_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_2_20170323T200550_20170323T203552_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium 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_220170323T205850_20170323T211447_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_220170323T221810_20170323T222124_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_220170323T222224_20170323T222334_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_220170323T222506_20170323T223254_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) 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:

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.

umber of products with errors:

ComptSim_Compt201700221700040_201700221700440_0001 Inc. Resign Averaging Status Flag has been set for one or more records.	Product	Test Failed	Description
SCOPPL_SIR_LOP_2_00170023104273_0010023104413_B001 CR_OPPL_SIR_LOP_2_0017002310473_0010023104413_B001 CR_OPPL_SIR_LOP_2_00170023104743_D01023104473_B001 CR_OPPL_SIR_LOP_2_00170023104743_D01023104473_B001 CR_OPPL_SIR_LOP_2_00170023104743_D010023104473_B001 CR_OPPL_SIR_LOP_2_00170023104743_D010023104473_B001 CR_OPPL_SIR_LOP_2_00170023100240_D01002310443_B001 CR_OPPL_SIR_LOP_2_00170023100240_D010023102404_B001 CR_OPPL_SIR_LOP_2_00170023100240_D0100231024404_B001 CR_OPPL_SIR_LOP_2_00170023100240_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_D01002310244_B001 CR_OPPL_SIR_LOP_2_00170023100241_B0104_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR_LOP_2_001700231102404_B001 CR_OPPL_SIR	CS_OFFL_SIR_IOP_220170323T000720_20170323T000833_B001	Ice Range Averaging Status	
SCOPEL, SIRL (OP 2, 201703231014723, 201703231014743, SID01 CS_OFFL_SIRL (OP 2, 201703231014742, 201703231014745, SID01 CS_OFFL_SIRL (OP 2, 201703231014745, 201703231014745, SID01 CS_OFFL_SIRL (OP 2, 201703231014745, 201703231030429, BID01 CS_OFFL_SIRL (OP 2, 201703231023642, 201703231030429, SID01 CS_OFFL_SIRL (OP 2, 201703231030429, 20170323103049, SID01 CS_OFFL_SIRL (OP 2, 20170323103049, 20170323103049, SID01 CS_OFFL_SIRL (OP 2, 20170323103049, 20170323103049, SID01 CS_OFFL_SIRL (OP 2, 20170323103049, 201703231030594, SID01 CS_OFFL_SIRL (OP 2, 20170323103049, 201703231005059, SID01 CS_OFFL_SIRL (OP 2, 20170323103049, 201703231005059, SID01 CS_OFFL_SIRL (OP 2, 20170323103049, 201703231005059, SID01 CS_OFFL_SIRL (OP 2, 201703231005049, 201703231005059, SID01 CS_OFFL_SIRL (OP 2, 201703231060602, 201703231005059, SID01 CS_OFFL_SIRL (OP 2, 201703231060602, 201703231005059, SID01 CS_OFFL_SIRL (OP 2, 201703231066049, 201703231006448, SID01 CS_OFFL_SIRL (OP 2, 201703231066949, SID01 CS_OFFL_SIRL (OP 2, 201703231106940, SID01) CS_OFFL_SIRL (OP 2, 201703231106944, SID01) C	CS_OFFL_SIR_IOP_220170323T000840_20170323T001245_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_01703237014754_001703237016962_B001 CS_OFFL_SIR_IOP_2_01703237014751_001703237016962_B001 CS_OFFL_SIR_IOP_2_01703237014751_001703237016962_B001 CS_OFFL_SIR_IOP_2_01703237016252_0170323702686_B001 CS_OFFL_SIR_IOP_2_01703237036852_0170323702686_B001 CS_OFFL_SIR_IOP_2_0170323703686_0170323702686_B001 CS_OFFL_SIR_IOP_2_0170323703686_0170323702686_B001 CS_OFFL_SIR_IOP_2_0170323703686_0170323702686_B001 CS_OFFL_SIR_IOP_2_0170323703686_0170323702686_B001 CS_OFFL_SIR_IOP_2_0170323703686_0170323702686_B001 CS_OFFL_SIR_IOP_2_0170323703686_01703237036800 CS_OFFL_SIR_IOP_2_0170323703686_01703237036800 CS_OFFL_SIR_IOP_2_0170323703686_01703237036800 CS_OFFL_SIR_IOP_2_0170323703686_01703237036886 CS_OFFL_SIR_IOP_2_0170323703686_01703237036800 CS_OFFL_SIR_IOP_2_0170323703686_01703237036886 CS_OFFL_SIR_IOP_2_01703237036860_0170323706888 CS_OFFL_SIR_IOP_2_0170323706000_0170323706088 CS_OFFL_SIR_IOP_2_0170323706000_0170323706088 CS_OFFL_SIR_IOP_2_01703237060000_0170323706088 CS_OFFL_SIR_IOP_2_01703237060000_01703237060728 CS_OFFL_SIR_IOP_2_01703237060000_01703237060728 CS_OFFL_SIR_IOP_2_01703237060000_01703237060728 CS_OFFL_SIR_IOP_2_01703237060000_01703237060728 CS_OFFL_SIR_IOP_2_01703237060000_01703237060728 CS_OFFL_SIR_IOP_2_01703237060000_01703237060728 CS_OFFL_SIR_IOP_2_01703237060000_017032370607468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_0170323706249 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_01703237060000_01703237064468 CS_OFFL_SIR_IOP_2_017032370600000000000000000000000000000000	CS_OFFL_SIR_IOP_220170323T014225_20170323T014731_B001	Ice Range Averaging Status	
SCOPEL_SIN_OP_2_controscation_file_control_con	CS_OFFL_SIR_IOP_220170323T014737_20170323T014743_B001	Ice Range Averaging Status	
the Range Averaging Status CS_OFFL_SIR_IOP_2_2017032371032122_01703237103249_B001 Loe Range Averaging Status CS_OFFL_SIR_IOP_2_20170323710321032542_B001 Loe Range Averaging Status CS_OFFL_SIR_IOP_2_20170323710321032542_B001 Loe Range Averaging Status Loe Range Averaging Stat	CS_OFFL_SIR_IOP_220170323T014743_20170323T014751_B001	Ice Range Averaging Status	
CS_OFFL_SIR_JOP_2_201700337103203_201703237103248_B001 CS_OFFL_SIR_JOP_2_201700337103203_201703237103248_B001 CS_OFFL_SIR_JOP_2_201700337103203_201703237103248_B001 CS_OFFL_SIR_JOP_2_201700337103203_201703237103203_B001 CS_OFFL_SIR_JOP_2_20170033710303_2017032371032370_B001 CS_OFFL_SIR_JOP_2_20170033710303_20170323710303_B001 CS_OFFL_SIR_JOP_2_20170033710303_20170323710303_B001 CS_OFFL_SIR_JOP_2_20170033710303_201700323700503_B001 CS_OFFL_SIR_JOP_2_20170033710303_201700323700503_B001 CS_OFFL_SIR_JOP_2_20170033710303_2017003237005073_B001 CS_OFFL_SIR_JOP_2_2017003371030419_2017003237005073_B001 CS_OFFL_SIR_JOP_2_2017003371030419_2017003237100442_B001 CS_OFFL_SIR_JOP_2_201700337103001_201700323710044_B001 CS_OFFL_SIR_JOP_2_2017003237103001_201700323710044_B001 CS_OFFL_SIR_JOP_2_2017003237110302_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110302_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110302_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110302_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110303_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110303_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110303_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110303_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110303_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110303_2017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110304_B0017003237110304_B001 CS_OFFL_SIR_JOP_2_2017003237110304_B00170032	CS_OFFL_SIR_IOP_220170323T014751_20170323T015052_B001	Ice Range Averaging Status	
CS_OFFL_SIR_JOP_2_2017032371032442_0017032371032708_B001 CS_OFFL_SIR_JOP_2_2017032371032442_0017032371032708_B001 CS_OFFL_SIR_JOP_2_2017032371032442_0017032371032708_B001 CS_OFFL_SIR_JOP_2_2017032371032408_2017032371032708_B001 CS_OFFL_SIR_JOP_2_2017032371032082_0017032371032708_B001 CS_OFFL_SIR_JOP_2_2017032371030842_0017032371032708_B001 CS_OFFL_SIR_JOP_2_2017032371030820_0017032371030838_B001 CS_OFFL_SIR_JOP_2_201703237103082_0017032371030728_B001 CS_OFFL_SIR_JOP_2_201703237103082_0017032371030728_B001 CS_OFFL_SIR_JOP_2_201703237103082_0017032371030728_B001 CS_OFFL_SIR_JOP_2_201703237103082_0017032371030728_B001 CS_OFFL_SIR_JOP_2_201703237103082_0017032371030728_B001 CS_OFFL_SIR_JOP_2_201703237103082_0017032371030724_B001 CS_OFFL_SIR_JOP_2_2017032371030801_00170323710428_B001 CS_OFFL_SIR_JOP_2_2017032371030801_00170323710428_B001 CS_OFFL_SIR_JOP_2_2017032371030801_00170323710428_B001 CS_OFFL_SIR_JOP_2_2017032371030801_00170323710428_B001 CS_OFFL_SIR_JOP_2_2017032371030801_00170323710428_B001 CS_OFFL_SIR_JOP_2_201703237103081_00170323710428_B001 CS_OFFL_SIR_JOP_2_201703237103081_00170323710428_B001 CS_OFFL_SIR_JOP_2_201703237103081_00170323710428_B001 CS_OFFL_SIR_JOP_2_201703237110308_00170323710428_B001 CS_OFFL_SIR_JOP_2_201703237110308_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110308_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110308_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110308_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110308_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110308_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110448_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110408_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110408_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110408_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110408_B001 CS_OFFL_SIR_JOP_2_201703237110408_001703237110408_B001 CS_OFFL_SIR_JO	CS_OFFL_SIR_IOP_220170323T032122_20170323T032629_B001	Ice Range Averaging Status	
Les Parties Profession De Parties Profession de la Partie Partie Profession de la Partie Partie Profession de la Partie Partie Profession de la Partie	CS_OFFL_SIR_IOP_220170323T032635_20170323T032642_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323105038_20170323105058_B001	CS_OFFL_SIR_IOP_220170323T032642_20170323T032648_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T050349_20170323T050559_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T050549_20170323T050559_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T0505249_20170323T050529_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064517_20170323T06458_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064517_20170323T06428_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064517_20170323T064428_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064512_20170323T00442_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T100421_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T100421_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T100421_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T100421_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T104042_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. Loc Range Aver	CS_OFFL_SIR_IOP_220170323T032648_20170323T032700_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T056546_20170323T056558_B001 ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T066419_20170323T064268_B001 ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064119_20170323T064268_B001 ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064919_20170323T06429_B001 ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064902_20170323T06429_B001 ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T064916_20170323T106442_B001 ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T1065901_20170323T106442_B001 ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T13262_20170323T11326_B001 ce Range Averaging Status ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T13208_20170323T113208_B001 ce Range Averaging Status ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T164964_20170323T15048_B001 ce Range Averaging Status ce Range Averaging Status ce Range Averaging Status ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T164964_20170323T164964_B001 ce Range Averaging Status ce Range Averaging Status ce Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T164964_20170323T164560_B001 ce Range Averaging Status ce Range Averaging Status The loc Range	CS_OFFL_SIR_IOP_220170323T032707_20170323T032834_B001	Ice Range Averaging Status	
CS_OFF_SIR_IOP_2_20170323T0650962_02170323T064096_001 CR Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T082416_20170323T082409_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T082416_20170323T100442_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T100521_20170323T100442_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T113262_20170323T1100644_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T113262_20170323T114336_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T145849_20170323T150447_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T145849_20170323T15048_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T16541_20170323T15048_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_IOP_2_20170323T16541_20170323T165418_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averagi	CS_OFFL_SIR_IOP_220170323T050039_20170323T050539_B001	Ice Range Averaging Status	
CS_OFF_SIR_IOP_2_20170323T064192_20170323T06456_B001	CS_OFFL_SIR_IOP_220170323T050546_20170323T050558_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T064517_20170323T06428_B001 Loc Range Averaging Status Tecords. The Loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T062406_20170323T108244_B001 Loc Range Averaging Status Lo	CS_OFFL_SIR_IOP_220170323T050620_20170323T050723_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_2017032371081902_2017032371081409_B001	CS_OFFL_SIR_IOP_220170323T064119_20170323T064456_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T082418_20170323T082744_B001	CS_OFFL_SIR_IOP_220170323T064517_20170323T064828_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T100521_02416_20170323T100442_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T1100521_20170323T1100644_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T132206_20170323T132238_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T132206_20170323T150147_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T145949_20170323T150147_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T150341_20170323T150648_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T163808_20170323T150648_B001 Loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging S	CS_OFFL_SIR_IOP_220170323T081902_20170323T082409_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T103	CS_OFFL_SIR_IOP_220170323T082416_20170323T082744_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T110322_0170323T110323_B001	CS_OFFL_SIR_IOP_220170323T095901_20170323T100442_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T132026_20170323T132238_B001 Loe Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T164116_20170323T164150_B001 Loe Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T181623_20170323T181838_B001 Loe Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T190546_20170323T190646_B001 Loe Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or	CS_OFFL_SIR_IOP_220170323T100521_20170323T100644_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T145949_20170323T150147_B001	CS_OFFL_SIR_IOP_220170323T113826_20170323T114336_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T150312_20170323T155514_B001	CS_OFFL_SIR_IOP_220170323T132026_20170323T132238_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T155341_20170323T155514_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T164116_20170323T164550_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T181623_20170323T181838_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T181623_20170323T181838_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T181843_20170323T182445_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T190546_20170323T190646_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T195547_20170323T195706_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T195833_20170323T200248_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T195833_20170323T200248_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T213744_20170323T214325_B001 Lee Range Averaging Status The Lee Range Averaging Status Flag has been set for one or more records. The Lee Range Averaging Status Flag has been set for one or more records. The Lee Range Averaging Status Flag has been set for one or more records. The Lee Range Averaging Status Flag has been set for one or more records. The Lee Range Averaging Status Flag has been set for one or more records. The Lee Range Averaging Status Flag has been set for one or more records. The Lee Range Averaging Status Flag has been set for one or more records. The Le	CS_OFFL_SIR_IOP_220170323T145949_20170323T150147_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T163808_20170323T164550_B001	CS_OFFL_SIR_IOP_220170323T150312_20170323T150648_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T181623_20170323T181838_B001 CS_OFFL_SIR_IOP_2_20170323T181623_20170323T181838_B001 CS_OFFL_SIR_IOP_2_20170323T181843_20170323T181838_B001 CS_OFFL_SIR_IOP_2_20170323T181843_20170323T182445_B001 CS_OFFL_SIR_IOP_2_20170323T181843_20170323T182445_B001 CS_OFFL_SIR_IOP_2_20170323T190546_20170323T190646_B001 CS_OFFL_SIR_IOP_2_20170323T190546_20170323T190646_B001 CS_OFFL_SIR_IOP_2_20170323T195547_20170323T195706_B001 CS_OFFL_SIR_IOP_2_20170323T195547_20170323T195706_B001 CS_OFFL_SIR_IOP_2_20170323T195833_20170323T200248_B001 CS_OFFL_SIR_IOP_2_20170323T195833_20170323T200248_B001 CS_OFFL_SIR_IOP_2_20170323T23744_20170323T214325_B001 CS_OFFL_SIR_IOP_2_20170323T237244_20170323T23254_B001 CS_OFFL_SIR_IOP_2_20170323T22506_20170323T223554_B001 CS_OFFL_SIR_IOP_2_20170323T22506_20170323T223554_B001 CS_OFFL_SIR_IOP_2_20170323T231648_20170323T232200_B001 CS_OFFL_SIR_IOP_2_20170323T231648_	CS_OFFL_SIR_IOP_220170323T155341_20170323T155514_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T181623_20170323T181838_B001 Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170323T163808_20170323T164113_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_IOP_2_20170323T190546_20170323T190546_B001 Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170323T181623_20170323T181838_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T195847_20170323T195706_B001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T195833_20170323T200248_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T213744_20170323T214325_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170323T213744_20170323T213254_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170323T181843_20170323T182445_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T195833_20170323T200248_B001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170323T190546_20170323T190646_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170323T195833_20170323T200246_B001	CS_OFFL_SIR_IOP_220170323T195547_20170323T195706_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_201703231213744_0170323121335_B001	CS_OFFL_SIR_IOP_220170323T195833_20170323T200248_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2201703231222506_201703231223254_B001	CS_OFFL_SIR_IOP_220170323T213744_20170323T214325_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_IOP_220170323T222506_20170323T223254_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_IOP_220170323T231648_20170323T232200_B001	Ice Range Averaging Status	

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:

29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170323T000720_20170323T000833_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T000840_20170323T001245_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T014225_20170323T014731_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T014737_20170323T014743_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T014751_20170323T015052_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T032122_20170323T032629_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T032635_20170323T032642_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T032648_20170323T032700_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T050620_20170323T050723_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T064119_20170323T064456_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T064517_20170323T064828_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T081902_20170323T082409_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T082416_20170323T082744_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T095901_20170323T100442_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T100521_20170323T100644_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T113826_20170323T114336_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T132026_20170323T132238_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T145949_20170323T150147_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T150312_20170323T150648_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T155341_20170323T155514_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T163808_20170323T164113_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T181623_20170323T181838_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T181843_20170323T182445_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T190546_20170323T190646_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T195547_20170323T195706_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T195833_20170323T200248_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T213744_20170323T214325_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170323T222506_20170323T223254_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170323T231648_20170323T232200_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

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: 138

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
SIR_IOP_1B	252	252	252	0	0
SIR_IOP_2	252	252	252	0	0

6.1 QCC Errors

Number of QCC reports with errors:

6.2 QCC Warnings

6.3 Missing QCC Reports

Number of products with missing QCC reports:

0