



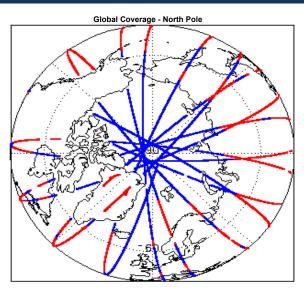
## 1. Overview

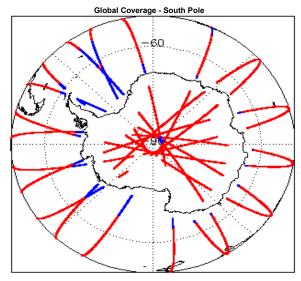
Report Production Date:	16-Mar-2017			
Processor Used:	CryoSat Ocean Processor			
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data			

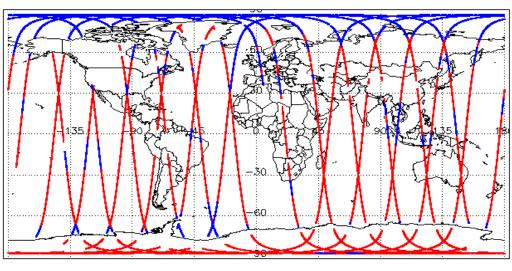
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

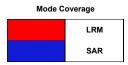
Ī	Mission / Instrument News		
	13-Mar-2017	None	
	14-Mar-2017	L0 data missing on 14-Mar-2017 from ~09:30 to ~13:50 due to an unplanned ground segment anomaly.	
	15-Mar-2017	Nothing planned	

# 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:

6

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20170314T000434_20170314T000629_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170314T040436_20170314T042019_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170314T043129_20170314T043348_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170314T051501_20170314T052200_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170314T145213_20170314T150026_B001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOP 1B 20170314T164840 20170314T165310 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:

### 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: 16

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170314T032619_20170314T032927_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_IOP_2_20170314T034159_20170314T034319_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_220170314T035114_20170314T040233_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_220170314T043550_20170314T044819_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170314T050445_20170314T050536_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	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_220170314T051501_20170314T052200_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_220170314T053540_20170314T054223_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170314T143726_20170314T144732_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_2_20170314T164737_20170314T164818_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_220170314T165946_20170314T170027_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_2_20170314T170313_20170314T170345_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_220170314T170345_20170314T170417_B001	Familibrium 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

		There is an error with the Total Geocentric Ocean Tide height (solution 2:
CS_OFFL_SIR_IOP_220170314T183738_20170314T184027_B001		FES) for one or more records
CS_OFFL_SIR_IOP_220170314T225135_20170314T225424_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOP_2201703141231809_201703141232046_B001	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_220170314T234906_20170315T001213_B001	Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction, U-Wind and V- Wind components	There is an error with the Meteo Corrections 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.

Number of products with errors:

35

Co. OPT_SRI_OP_2_20170314700722_0170314701901_001001_0010014701901_001	Product	Test Failed	Description
The Lies Faring Averaging Status. Flights been set for one or more code.    Co.GFF_SIR_OP_2_201703147016062_20170314702602_B001   Lee Range Averaging Status. Flights been set for one or more code.	CS_OFFL_SIR_IOP_220170314T010723_20170314T010904_B001	Ice Range Averaging Status	
S. OFFL_SIR_OP_2_20170314T05482_20170314T02482_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T02481_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T02481_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T02481_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T02481_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T02481_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T025041_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T025041_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T025041_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T025041_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T025041_8001  S. OFFL_SIR_OP_2_20170314T02482_20170314T02470_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02470_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02470_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02470_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02470_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02485_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02485_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02685_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02685_8001  S. OFFL_SIR_OP_2_20170314T02470_20170314T02685_8001  S. OFFL_SIR_OP_2_20170314T02673_20170314T002685_8001  S. OFFL_SIR_OP_2_20170314T02673_20170314T002685_8001  S. OFFL_SIR_OP_2_20170314T02673_20170314T002685_8001  S. OFFL_SIR_OP_2_20170314T00673_20170314T002685_8001  S. OFFL_SIR_OP_2_20170314T00673_20170314T006681_8001  S. OFFL_SIR_OP_2_20170314T00673_20170314T006681_8001  S. OFFL_SIR_OP_2_20170314T006682_20170314T006681_8001  S. OFFL_SIR_OP_2_20170314T006682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T006682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T006682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T006682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T006682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T00682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T00682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T00682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T00682_20170314T006684_8001  S. OFFL_SIR_OP_2_20170314T00682_20170314T006684_8001  S. O	CS_OFFL_SIR_IOP_220170314T010904_20170314T010910_B001	Ice Range Averaging Status	
S. OFFL. SRI, IOP 2_001703141042692_001703141042692_8001  See Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  S. OFFL. SRI, IOP 2_001703141004802_001703141004802_8001  S. OFFL. SRI, IOP 2_001703141004802_001703141004802_8001  S. OFFL. SRI, IOP 2_001703141004802_001703141004802_8001  S. OFFL. SRI, IOP 2_001703141004802_001703141003480_8001  S. OFFL. SRI, IOP 2_001703141004202_001703141003480_8001  S. OFFL. SRI, IOP 2_00170314104203_001703141003480_8001  S. OFFL. SRI, IOP 2_00170314104203_00170314100340_8001  S. OFFL. SRI, IOP 2_00170314104203_00170314100340_8001  S. OFFL. SRI, IOP 2_00170314100340_001031400340_8001  S. OFFL. SRI, IOP 2_00170314100340_001031400041_8001  S. OFFL. SRI, IOP 2_00170314100340_001703141000800_8001  S. OFFL. SRI, IOP 2_00170314100030_001703141000800_8001  S. OFFL. SRI, IOP 2_00170314100032_001703141008008_8001  S. OFFL. SRI, IOP 2_00170314100032_00170314100804_8001  S. OFFL. SRI, IOP 2_00170314100340_001703141008408_8001  S. OFFL. SRI, IOP 2_00170314100340_001703141004040_8001  S. OFFL. SRI, IOP 2_00170314100340_00170314100408_8001  S. OFFL. SRI, IOP 2_00	CS_OFFL_SIR_IOP_220170314T010911_20170314T011322_B001	Ice Range Averaging Status	
SC_OFFL_SIR_OP_2_20170314102422_201703141024815_201703141024915_20170314102249_20101041024915_20170314102249_20170314102249_20101041024915_20170314102249_20101041024915_20170314102249_20101041024915_20170314102249_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_20101041024915_201703141022495_2010104102495_201703141022495_2010104102495_201703141022495_2010104102495_201703141022495_2010104102495_201703141022495_2010104102495_201703141022495_2010104102495_201703141022495_2010104102495_201703141022495_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_20170314102249_2010104102495_2010104102495_20170314102495_2010104102495_2010104102495_20170314102495_2010104102495_2010104102495_20170314102495_2010104102495_2010104102495_2010104102495_20170314102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_2010104102495_201010410249	CS_OFFL_SIR_IOP_220170314T015508_20170314T015532_B001	Ice Range Averaging Status	
toe Range Averaging Status  CS_OFFL_SIR_IOP_2_201703147024912_0010  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_201703147024912_0010  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_201703147024912_0010  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_20170314702492_001031470470_8001  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_201703147047020_00107031470470_8001  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_201703147047027_0017031470470_8001  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_20170314704707_0017031470470_8001  Loe Range Averaging Status  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_20170314704270_00170314704273_8001  Loe Range Averaging Status  Loe Ra	CS_OFFL_SIR_IOP_220170314T024239_20170314T024802_B001	Ice Range Averaging Status	
to Range Averaging Status  CS_OFFL_SIR_IOP_2_20170314T024022_0170314T024026_B001  CS_OFFL_SIR_IOP_2_20170314T024020_20170314T04200_B001  CS_OFFL_SIR_IOP_2_20170314T04200_20170314T04200_B001  CS_OFFL_SIR_IOP_2_20170314T04200_20170314T04200_B001  CS_OFFL_SIR_IOP_2_20170314T04200_20170314T04270_B001  CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001  CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001  CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001  CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001  CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001  CS_OFFL_SIR_IOP_2_20170314T040014_20170314T040017_B001  CS_OFFL_SIR_IOP_2_20170314T060015_20170314T000017_B001  CS_OFFL_SIR_IOP_2_20170314T060017_20170314T0000015_B001  CS_OFFL_SIR_IOP_2_20170314T0600017_20170314T0000015_B001  CS_OFFL_SIR_IOP_2_20170314T0600017_20170314T0000015_B001  CS_OFFL_SIR_IOP_2_20170314T0600017_20170314T0000015_B001  CS_OFFL_SIR_IOP_2_20170314T0600017_20170314T0000015_B001  CS_OFFL_SIR_IOP_2_20170314T06000017_20170314T0000001_B001  CS_OFFL_SIR_IOP_2_20170314T06000017_20170314T0000001_B001  CS_OFFL_SIR_IOP_2_20170314T0600000000000000000000000000000000000	CS_OFFL_SIR_IOP_220170314T024809_20170314T024815_B001	Ice Range Averaging Status	
to Range Averaging Status Flag has been set for one or more records.  Set Flags (DPL_2 20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T04270_B001   CS_OFFL_SIR_IOP_2_20170314T040314T06050_B001   CS_OFFL_SIR_IOP_2_20170314T06050_20170314T060600_B001   CS_OFFL_SIR_IOP_2_20170314T060600_B001   CS	CS_OFFL_SIR_IOP_220170314T024815_20170314T024821_B001	Ice Range Averaging Status	
Les Arange Averaging Status  The Loc Range Averaging Status  T	CS_OFFL_SIR_IOP_220170314T024822_20170314T025041_B001	Ice Range Averaging Status	
CS_OFFL_SIR_JOP_2_20170314T042702_20170314T04273_8001  CS_OFFL_SIR_JOP_2_20170314T042738_20170314T04273_8001  CS_OFFL_SIR_JOP_2_20170314T042738_20170314T042857_8001  CS_OFFL_SIR_JOP_2_20170314T060135_20170314T060613_8001  CS_OFFL_SIR_JOP_2_20170314T060135_20170314T060613_8001  CS_OFFL_SIR_JOP_2_20170314T060135_20170314T060617_8001  CS_OFFL_SIR_JOP_2_20170314T06013_20170314T060601_8001  CS_OFFL_SIR_JOP_2_20170314T06014_20170314T060601_8001  CS_OFFL_SIR_JOP_2_20170314T06014_20170314T060601_8001  CS_OFFL_SIR_JOP_2_20170314T06014_20170314T06030_8001  CS_OFFL_SIR_JOP_2_20170314T06015_20170314T0606064_8001  CS_OFFL_SIR_JOP_2_20170314T060536_20170314T0606068_8001  CS_OFFL_SIR_JOP_2_20170314T060536_20170314T0606068_8001  CS_OFFL_SIR_JOP_2_20170314T060536_20170314T0606068_8001  CS_OFFL_SIR_JOP_2_20170314T060536_20170314T060506_8001  CS_OFFL_SIR_JOP_2_20170314T060536_20170314T060506_8001  CS_OFFL_SIR_JOP_2_20170314T060536_20170314T060506_8001  CS_OFFL_SIR_JOP_2_20170314T060505_20170314T060506_8001  CS_OFFL_SIR_JOP_2_20170314T060506_8001  CS_OFFL_SIR_JOP_2_20170314T1600506_8001  CS_OFFL_SIR_JOP_2_20170314T1600506_8001  CS_OFFL_SIR_JOP_2_20170314T1600506_8001  CS_OFFL_SIR_JOP_2_20170314T1600506_8001  CS_OFFL_SIR_JOP_2_20170314T1600506_800	CS_OFFL_SIR_IOP_220170314T033349_20170314T033456_B001	Ice Range Averaging Status	
The loc Range Averaging Status  See SoffL_SiR_IOP_2_20170314102703427034270342703401  Loc Range Averaging Status  The loc Rang	CS_OFFL_SIR_IOP_220170314T042205_20170314T042700_B001	Ice Range Averaging Status	
SC_OFFL_SIR_IOP_2_20170314102738_201703141060613_8001  cc Range Averaging Status  toe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status  toe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status  The loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The 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.  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.  Th	CS_OFFL_SIR_IOP_220170314T042700_20170314T042706_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T084352_0170314T0860613_B001  CR_Range_Averaging_Status	CS_OFFL_SIR_IOP_220170314T042707_20170314T042713_B001	Ice Range Averaging Status	records.
CS_OFF_SIR_IOP_2_20170314T060163_20170314T060630_100101   toe Range Averaging Status   The loce Range Averag	CS_OFFL_SIR_IOP_220170314T042738_20170314T042857_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T060617_20170314T060630_B001  CS_OFFL_SIR_IOP_2_20170314T060630_20170314T060630_B001  CS_OFFL_SIR_IOP_2_20170314T060630_20170314T060630_B001  CS_OFFL_SIR_IOP_2_20170314T060630_20170314T06060_B001  CS_OFFL_SIR_IOP_2_20170314T0606652_20170314T06060_B001  CS_OFFL_SIR_IOP_2_20170314T07415_20170314T07452T_B001  CS_OFFL_SIR_IOP_2_20170314T074534_20170314T07452T_B001  CS_OFFL_SIR_IOP_2_20170314T074534_20170314T07452T_B001  CS_OFFL_SIR_IOP_2_20170314T074534_20170314T074543_B001  CS_OFFL_SIR_IOP_2_20170314T074534_20170314T074550_B001  CS_OFFL_SIR_IOP_2_20170314T074550_20170314T064209_B001  CS_OFFL_SIR_IOP_2_20170314T0745948_20170314T092414_B001  CS_OFFL_SIR_IOP_2_20170314T09498_20170314T092414_B001  CS_OFFL_SIR_IOP_2_20170314T09498_20170314T092616_B001  CS_OFFL_SIR_IOP_2_20170314T161517_20170314T161801_B001  CS_OFFL_SIR_IOP_2_20170314T161517_20170314T161801_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T160226_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16025_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16025_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16025_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16025_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16025_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16025_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16024_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16024_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T1602_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T160015_B001  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T	CS_OFFL_SIR_IOP_220170314T060135_20170314T060613_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T060636_20170314T060636_B001	CS_OFFL_SIR_IOP_220170314T060614_20170314T060617_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T060652_20170314T0606806_B001  Loe Range Averaging Status  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.  CS_OFFL_SIR_IOP_2_20170314T074554_20170314T074543_B001  Loe Range Averaging Status  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T074554_20170314T074515_B001  Loe Range Averaging Status  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T084209_B001  Loe Range Averaging Status  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T09484_20170314T092441_B001  Loe Range Averaging Status  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T092448_20170314T092441_B001  Loe Range Averaging Status  Loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T092448_20170314T193212_B001  Loe Range Averaging Status  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16016_B001  Loe Range Averaging Status  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T16016_B001  Loe Range Averaging Status  Loe Range Averaging Status  CS_OFFL_SIR_IOP_2_20170314T160313_20170314T160726_B001  Loe Range Averaging Status  Loe Range Averaging Status  Loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T160416_20170314T160426_B001  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T160416_20170314T160459_B001  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or mo	CS_OFFL_SIR_IOP_220170314T060617_20170314T060630_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T074155_20170314T074527_B001	CS_OFFL_SIR_IOP_220170314T060636_20170314T060644_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T074534_20170314T074543_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.  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.  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.  The Ice Rang	CS_OFFL_SIR_IOP_220170314T060652_20170314T060806_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T074532_0170314T074945_B001	CS_OFFL_SIR_IOP_220170314T074145_20170314T074527_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T083920_20170314T084209_B001	CS_OFFL_SIR_IOP_220170314T074534_20170314T074543_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T06392_20170314T092441_B001	CS_OFFL_SIR_IOP_220170314T074550_20170314T074915_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T1091448_20170314T1092816_B001	CS_OFFL_SIR_IOP_220170314T083920_20170314T084209_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T142120_20170314T142312_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.  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T160224_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T160224_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T160313_20170314T160726_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T165416_20170314T165459_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T173809_20170314T174627_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191704_20170314T191904_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191947_20170314T1919452_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T205628_20170314T205712_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.  The Ice Range	CS_OFFL_SIR_IOP_220170314T091948_20170314T092441_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T151517_20170314T151801_B001  Lee 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.  CS_OFFL_SIR_IOP_2_20170314T160015_20170314T160726_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T165416_20170314T165459_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T173809_20170314T17462T_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191704_20170314T191904_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191704_20170314T191904_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191947_20170314T192452_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T205628_20170314T205712_B001  Lee 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	CS_OFFL_SIR_IOP_220170314T092448_20170314T092816_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T160315_20170314T160224_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.  CS_OFFL_SIR_IOP_2_20170314T173809_20170314T174627_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191704_20170314T191904_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.  CS_OFFL_SIR_IOP_2_20170314T191947_20170314T191904_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.  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_220170314T142120_20170314T142312_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T160013_20170314T160726_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_20170314T165416_20170314T165459_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T173809_20170314T174627_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191704_20170314T191904_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.  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_220170314T151517_20170314T151801_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170314T160313_20170314T165459_B001	CS_OFFL_SIR_IOP_220170314T160015_20170314T160224_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T173809_20170314T174627_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20170314T191704_20170314T191904_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.  CS_OFFL_SIR_IOP_2_20170314T191947_20170314T192452_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.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170314T160313_20170314T160726_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T191904_20170314T191904_B001	CS_OFFL_SIR_IOP_220170314T165416_20170314T165459_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T191704_20170314T191904_B001	CS_OFFL_SIR_IOP_220170314T173809_20170314T174627_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_20170314T191947_20170314T192452_B001 Ice Range Averaging Status records.  CS_OFFL_SIR_IOP_2_20170314T205628_20170314T205712_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_20170314T205911_20170314T210512_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.	CS_OFFL_SIR_IOP_220170314T191704_20170314T191904_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_2_2017/03141205628_2017/03141205712_B001	CS_OFFL_SIR_IOP_220170314T191947_20170314T192452_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOP_22017/03141209911_2017/03141210912_B001	CS_OFFL_SIR_IOP_220170314T205628_20170314T205712_B001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_IOP_220170314T205911_20170314T210512_B001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_IOP_220170314T223819_20170314T224342_B001	Ice Range Averaging Status	

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.

lumber of products with errors:

Test Failed Description The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T010723\_20170314T010904\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T010911 20170314T011322 B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T015508\_20170314T015532\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T024239 20170314T024802 B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T024809 20170314T024815 B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T024822\_20170314T025041\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T033349\_20170314T033456\_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T042700 20170314T042706 B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T042738\_20170314T042857\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T060135 20170314T060613 B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T060652 20170314T060806 B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T074145\_20170314T074527\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T074550 20170314T074915 B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T083920\_20170314T084209\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T091948\_20170314T092441\_B001 Ice Backscatter Averaging Status record: The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T142120\_20170314T142312\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T151517\_20170314T151801\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T160015 20170314T160224 B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T160313 20170314T160726 B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T165416 20170314T165459 B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T173809\_20170314T174627\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170314T191704 20170314T191904 B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T191947\_20170314T192452\_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20170314T205628\_20170314T205712\_B001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more

#### 5.8 L2 Ocean Retracking Quality Check

CS\_OFFL\_SIR\_IOP\_2\_\_20170314T205911\_20170314T210512\_B001

CS\_OFFL\_SIR\_IOP\_2\_\_20170314T223819\_20170314T224342\_B001

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: 141

## 6. IOP QCC Report Analysis

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

records

The Ice Backscatter Averaging Status Flag has been set for one or more

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	256	256	256	0	0
SIR IOP 2	254	254	254	0	0

## 6.1 QCC Errors

Number of QCC reports with errors:

## 6.2 QCC Warnings

Number of QCC reports with warnings

6.3 Missing QCC Reports

Number of products with missing QCC reports: