



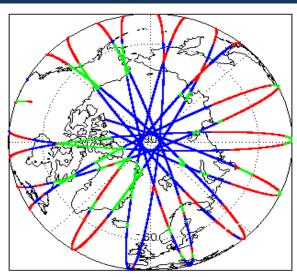
1. Overview

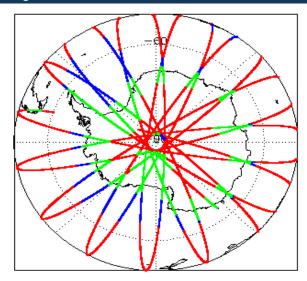
Report Production:	25-Jan-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

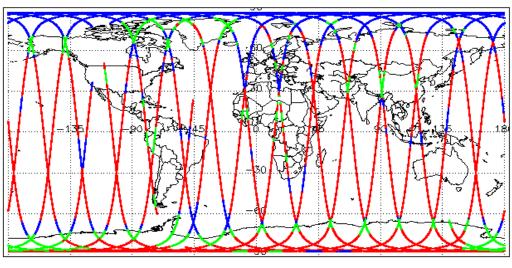
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	See Section 5.2	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

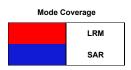
Mission / Instrument News		
22-Jan-2018	None	
23-Jan-2018	None	
24-Jan-2018	Nothing planned	

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 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 for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

60

Number of products with errors.	I=	la
Product CS_OFFL_SIR_IOPM1B_20180123T000751_20180123T002235_C001	Test Failed Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20180123T005555_20180123T010516_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20180123T121532_20180123T122918_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20180123T000537_20180123T000751_C001	Attitude correction missing	records The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T002235_20180123T002319_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T003821_20180123T003829_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T011604 20180123T011647 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T012501_20180123T012653_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T020429_20180123T020533_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T021736_20180123T021804_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T024027_20180123T024154_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T025438_20180123T025543_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T030707_20180123T030945_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T031513_20180123T031654_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T035634_20180123T035655_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T043249_20180123T043444_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T050532_20180123T051111_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T052143_20180123T052431_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T053600_20180123T053602_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T060455 20180123T060458 C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T060628 20180123T060651 C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T061033 20180123T061221 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T070126_20180123T070420_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T075304_20180123T075347_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T075441_20180123T080309_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T081541_20180123T081826_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T084044_20180123T084313_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T092118_20180123T092750_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T092750_20180123T093001_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T093025_20180123T093238_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T102640 20180123T102646 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T102653_20180123T102700_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T103648_20180123T103739_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T112712 20180123T112720 C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T112722 20180123T112808 C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T113621 20180123T114102 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T115839_20180123T115848_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T122918_20180123T122923_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T122925 20180123T123131 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T124940_20180123T125128_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T132122_20180123T132301_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T141631 20180123T141752 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T142447_20180123T142740_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T145253 20180123T145359 C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180123T152928 20180123T153019 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T161034_20180123T162008_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T170818_20180123T171029_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T172120_20180123T172658_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T182453_20180123T182956_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T184708_20180123T184944_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T192647_20180123T193336_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T193846_20180123T193916_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T193940_20180123T193910_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T194322_20180123T194643_C001 CS_OFFL_SIR_IOPR1B_20180123T205056_20180123T205340_C001	Attitude correction missing	The attitude has not been corrected
55_52_6	tudo dorrection missing	The database has not been contested

CS_OFFL_SIR_IOPR1B_20180123T224031_20180123T224247_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T224250_20180123T224254_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T224517_20180123T224614_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T224702_20180123T225129_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T231639_20180123T231700_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180123T234727_20180123T234730_C001	Attitude correction missing	The attitude has not been corrected

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag 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:

15

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180123T003829_20180123T005343_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180123T030646_20180123T030707_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180123T061221_20180123T061419_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180123T142740_20180123T142759_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T012653_20180123T012859_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T030145_20180123T030646_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T043444_20180123T043520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T093001_20180123T093025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T093238_20180123T093530_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T125128_20180123T125344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T175516_20180123T175552_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180123T225244_20180123T225651_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180123T132122_20180123T132301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180123T161034_20180123T162008_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180123T232953_20180123T233624_C001	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:

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:

Product	Test Failed
CS_OFFL_SIR_IOPR_2_20180123T060455_20180123T060458_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

3

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180123T000751_20180123T002235_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180123T005555_20180123T010516_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180123T121532_20180123T122918_C001	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 and Ice 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180122T234926_20180123T000537_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

Comprising Conduction (Comprising Conductio	00.0551.010.10014.0.040.000700774.0040.00770075.004		The Ocean Range Averaging Status Flag has been set for one or more
CONTEST, DELLE JOHN JURISTO ZELEGIS JOHN JURISTON SELECTION CONTEST, DELLEGIS JOHN JURISTON ZELEGIS JOHN JURIS			records.
CONFE DRI CONFE 2 2010/03/2003/2003/2003/2003/2003/2003/20	CS_OFFL_SIR_IOPM_2_20180123T002934_20180123T003145_C001	Ice Range Averaging Status	records.
COUNT_SE_CONT_CENTROL_CONTO_CO	CS_OFFL_SIR_IOPM_2_20180123T003829_20180123T005343_C001	Ocean Range Averaging Status	records.
Copper Billion Company 2010 100 100 100 100 100 100 100 100 10	CS_OFFL_SIR_IOPM_2_20180123T005555_20180123T010516_C001	Ocean Range Averaging Status	records.
Co.CH.L.SELDONL_28190120120120120120120120120120120120120120	CS_OFFL_SIR_IOPM_2_20180123T013329_20180123T014042_C001	Ocean Range Averaging Status	records.
CONFE, BIRL CHAPT 2. 201912/2010103. 2019102/20172037 COST CO. OFFE, BIRL CHAPT 2. 201912/2010103. 2019102/201720207 COST COST CHAPT 2. 201912/2010102. 2019102/201720207 COST COST CHAPT 2. 201912/2010102. 2019102/201720207 COST COST CHAPT 2. 201912/2019102/201720207 COST COST CHAPT 2. 201912/2019102. 2019102/201720207 COST COST CHAPT 2. 201912/2019102. 2019102/201720207 COST COST CHAPT 2. 201912/2019102/201720207 COST COST CHAPT 2. 201912/2019102/20172020 COST COST CHAPT 2	CS_OFFL_SIR_IOPM_2_20180123T014950_20180123T020429_C001	Ocean Range Averaging Status	records.
COPPLIGNORM_CONTROL_CO	CS_OFFL_SIR_IOPM_2_20180123T020726_20180123T021548_C001	Ice Range Averaging Status	
Comp. Fig. 10 (mod. 2, 2016) 13 (mod. 2, 2016) 1	CS_OFFL_SIR_IOPM_2_20180123T021804_20180123T023514_C001	Ocean Range Averaging Status	
Compl. Set (1994) 2, 2010127110802 (2010127108012) COD Committed Preventing States In the Code Inchiga Averaging States In the Code Inchiga State In the Code Inchiga Averaging States Inchiga Intoined Inchigation Inchigation Inchigation Inchigation Inchigation Inchigation Inchigation Inchigation Inchigation	CS_OFFL_SIR_IOPM_2_20180123T023557_20180123T024027_C001	Ocean Range Averaging Status	
Co.PH., Sin, Don. 2, 2018/01/2018/2018/2018/2018/2018/2018/20	CS_OFFL_SIR_IOPM_2_20180123T031654_20180123T032007_C001	Ocean Range Averaging Status	
The Carrier Averaging Status Processing Company and the Carrier Status Processing Status P	CS_OFFL_SIR_IOPM_2_20180123T032032_20180123T034358_C001	Ocean Range Averaging Status	
South St. Prof. St. Prof. 2 (2009) 237109385_00109237109320_0000 Co. OPTL_SRI, OPTL_2 2009) 237109385_00109237109310_0000 Co. OPTL_SRI, OPTL_2 2009) 237109385_00109237109310_0000 Co. OPTL_SRI, OPTL_2 2009) 237109385_00109237109310_0000 Co. OPTL_SRI, OPTL_2 2009) 237109385_0010923709310_0000 Co. OPTL_SRI, OPTL_2 2009) 237109385_001092370931094_CO. Co. OPTL_SRI, OPTL_2 2009) 237109385_0010944_CO. Co. OPTL_SRI, OPTL_2 2009) 237109385_0010945_001094_CO. Co. OPTL_SRI, OPTL_2 2009) 237109385_001094_CO. Co. OPTL_SRI, OPTL_2 2009) 237109485_0010941_33710956_CO. Co.	CS_OFFL_SIR_IOPM_2_20180123T034625_20180123T034823_C001	Ice Range Averaging Status	
CS_OFFL_SIR_LOPM_2_201001231096037_D0100231005514_C001 CS_OFFL_SIR_LOPM_2_201001231096037_D010023105544_C001 CS_OFFL_SIR_LOPM_2_201001231055002_0100123105544_C001 CS_OFFL_SIR_LOPM_2_201001231055002_01001231055402_C001 CS_OFFL_SIR_LOPM_2_2010012310565002_01001231055402_C001 CS_OFFL_SIR_LOPM_2_2010012310565002_01001231055402_C001 CS_OFFL_SIR_LOPM_2_2010012310565002_01001231055002_C001 CS_OFFL_SIR_LOPM_2_2010012310565002_01001231055002_C001 CS_OFFL_SIR_LOPM_2_201001231056002_01001231055002_C001 CS_OFFL_SIR_LOPM_2_201001231056002_01001231055002_C001 CS_OFFL_SIR_LOPM_2_20100123105002_0100123105542_C001 CS_OFFL_SIR_LOPM_2_20100123105002_0100123105542_C001 CS_OFFL_SIR_LOPM_2_20100123105002_0100123105542_C001 CS_OFFL_SIR_LOPM_2_20100123105002_0100123105642_C001 CS_OFFL_SIR_LOPM_2_20100123105002_0100123105642_C001 CS_OFFL_SIR_LOPM_2_20100123105002_0100123105642_C001 CS_OFFL_SIR_LOPM_2_20100123105002_0100123105642_C001 CS_OFFL_SIR_LOPM_2_20100123105002_010012310500565_C001 CS_OFFL_SIR_LOPM_2_20100123105002_010012310500565_C001 CS_OFFL_SIR_LOPM_2_20100123105002_010012310500565_C001 CS_OFFL_SIR_LOPM_2_20100123105002_010012310500565_C001 CS_OFFL_SIR_LOPM_2_20100123105002_010012310500565_C001 CS_OFFL_SIR_LOPM_2_20100123105002_010012310500565_C001 CS_OFFL_SIR_LOPM_2_20100123105002_010012310500565_C001 CS_OFFL_SIR_LOPM_2_201001231105002_010012311050056_C001 CS_OFFL_SIR_LOPM_2_201001231105002_010012311050056_C001 CS_OFFL_SIR_LOPM_2_201001231105002_010012311050056_C001 CS_OFFL_SIR_LOPM_2_201001231105002_010012311050056_C001 CS_OFFL_SIR_LOPM_2_201001231105002_010012311050056_C001 CS_OFFL_SIR_LOPM_2_201001231105003_010012311050056_C001 CS_OFFL_SIR_LOPM_2_201001231105003_010012311050056_C001 CS_OFFL_SIR_LOPM_2_201001231105003_01001231105006_C001 CS_OFFL_SIR_LOPM_2_201001231105003_01001231105006_C001 CS_OFFL_SIR_LOPM_2_201001231105003_01001231105006_C001 CS_OFFL_SIR_LOPM_2_201001231105003_01001231105006_C001 CS_OFFL_SIR_LOPM_2_201001231105003_01001231105006_C001 CS_OFFL_SIR_LOPM_2_201001231105003_	CS_OFFL_SIR_IOPM_2_20180123T034910_20180123T035407_C001	Ice Range Averaging Status	
CS. OFFL.SRI., OPM_2_201601237046537_201601237046532_0001 CS. OFFL.SRI., OPM_2_201601237046532_0001237056532_0001 CS. OFFL.SRI., OPM_2_20160123705732_001601237057652_0001 CS. OFFL.SRI., OPM_2_20160123705732_00160123705756_0001 CS. OFFL.SRI., OPM_2_20160123705732_00160123705765_0001 CS. OFFL.SRI., OPM_2_20160123705732_00160123705756_0001 CS. OFFL.SRI., OPM_2_20160123705732_00160123705766_0001 CS. OFFL.SRI., OPM_2_201601237057073_00160123705766_0001 CS. OFFL.SRI., OPM_2_20160123705760_001 CS. OFFL.SRI., OPM_2_20160123705760_001 CS. OFFL.SRI., OPM_2_20160123706012_00160123705766_0001 CS. OFFL.SRI., OPM_2_20160123706012_00160123705766_0001 CS. OFFL.SRI., OPM_2_20160123706012_00160123706766_0001 CS. OFFL.SRI., OPM_2_20160123706012_001601237067644_0001 CS. OFFL.SRI., OPM_2_20160123706016_00160146_0001 CS. OFFL.SRI., OPM_2_20160123706016_00160160103706644_0001 CS. OFFL.SRI., OPM_2_201601237106016_00160100103706644_0001 CS. OFFL.SRI., OPM_2_201601237106016_00160100103706644_0001 CS. OFFL.SRI., OPM_2_201601237106016_00160100103706644_0001 CS. OFFL.SRI., OPM_2_201601237106016_0016010013706640_001 CS. OFFL.SRI., OPM_2_201601237106016_00160100103706640_001 CS. OFFL.SRI., OPM_2_201601237106016_0016010013706640_001 CS. OFFL.SRI., OPM_2_201601237106016_0016013706640_001 CS. OFFL.SRI., OPM_2_201601237106016_0016013706640_001 CS. OFFL.SRI., OPM_2_201601237106016_001601370640_001 CS. OFFL.SRI., OPM_2_201601237106016_001601370640001 CS. OFFL.SRI., OPM_2_201601237106016_001601370	CS_OFFL_SIR_IOPM_2_20180123T035655_20180123T042240_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
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to Range Averaging Status CS_OFFL_SIR_IOPM_2_20180123T10242_0180123T103016_C001 CS_OFFL_SIR_IOPM_2_20180123T103739_20180123T10054_C001 CS_OFFL_SIR_IOPM_2_20180123T103739_20180123T110654_C001 CS_OFFL_SIR_IOPM_2_20180123T11016_20180123T110654_C001 CS_OFFL_SIR_IOPM_2_20180123T11016_20180123T110654_C001 CS_OFFL_SIR_IOPM_2_20180123T11016_20180123T111126_C001 CS_OFFL_SIR_IOPM_2_20180123T1112620_C0180123T113621_C001 CS_OFFL_SIR_IOPM_2_20180123T112620_20180123T113621_C001 CS_OFFL_SIR_IOPM_2_20180123T112620_20180123T113639_C001 CS_OFFL_SIR_IOPM_2_20180123T112053_C0180123T10553_C001 CS_OFFL_SIR_IOPM_2_20180123T10544_20180123T10551_C001 CS_OFFL_SIR_IOPM_2_20180123T120542_20180123T120551_C001 CS_OFFL_SIR_IOPM_2_20180123T120542_20180123T122180_C001 CS_OFFL_SIR_IOPM_2_20180123T12053_C001 CS_OFFL_SIR_IOPM_2_20180123T12030_C001 CS_OFFL_SIR_IOPM_2_20180123T120301_20180123T1303001 CS_OFFL_SIR_IOPM_2_20180123T1303_20180123T1303_0001 CS_OFFL_SIR_IOPM_2_20180123T16500_20180123T13001 CS_OFFL_SIR_IOPM_2_20180123T16500_20180123T		Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T10270_20180123T110854_C001 CS_OFFL_SIR_IOPM_2_20180123T110854_C001 CS_OFFL_SIR_IOPM_2_20180123T1110854_C001 CS_OFFL_SIR_IOPM_2_20180123T1110854_C001 CS_OFFL_SIR_IOPM_2_20180123T1110854_C001 CS_OFFL_SIR_IOPM_2_20180123T1110854_C001 CS_OFFL_SIR_IOPM_2_20180123T1110854_C00180123T1110854_C001 CS_OFFL_SIR_IOPM_2_20180123T1110854_C00180123T1110854_C001 CS_OFFL_SIR_IOPM_2_20180123T110854_20180123T1110854_C001 CS_OFFL_SIR_IOPM_2_20180123T110854_C0180123T110854_C001 CS_OFFL_SIR_IOPM_2_20180123T110854_C0180123T110854_C001 CS_OFFL_SIR_IOPM_2_20180123T110854_C0180123T120536_C001 CS_OFFL_SIR_IOPM_2_20180123T110854_C0180123T120536_C001 CS_OFFL_SIR_IOPM_2_20180123T110854_C0180123T120551_C001 CS_OFFL_SIR_IOPM_2_20180123T12532_C0180123T122918_C001 CS_OFFL_SIR_IOPM_2_20180123T12532_C0180123T122918_C001 CS_OFFL_SIR_IOPM_2_20180123T12532_C0180123T122918_C001 CS_OFFL_SIR_IOPM_2_20180123T12313_1_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T12313_1_20180123T133733_C001 CG_OFFL_SIR_IOPM_2_20180123T13133_20180123T134308_C001 CG_OFFL_SIR_IOPM_2_20180123T13313_20180123T134308_C001 CG_OFFL_SIR_IOPM_2_20180123T13313_20180123T134449_C001 CG_OFFL_SIR_IOPM_2_20180123T1331323_20180123T134449_C001 CG_OFFL_SIR_IOPM_2_20180123T133532_C0180123T134449_C001 CG_OFFL_SIR_IOPM_2_20180123T135332_20180123T134449_C001 CG_OFFL_SIR_IOPM_2_20180123T135352_C0180123T134566_C001 CG_OFFL_SIR_IOPM_2_20180123T135359_C0180123T134566_C001 CG_OFFL_SIR_IOPM_2_20180123T135590_C0180123T1355904_C001 CG_OFFL_SIR_IOPM_2_20180123T165668_C0180123T155904_C001 CG_OFFL_SIR_IOPM_2_20180123T165668_C0180123T155904_C001 CG_OFFL_SIR_IOPM_2_20180123T165668_C0180123T170559_C001 CG_OFFL_SIR_IOPM_2_20180123T165668_C0180123T170559_C001 CG_OFFL_SIR_IOPM_2_20180123T17059_C0180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180123T170599_C00180	CS_OFFL_SIR_IOPM_2_20180123T094550_20180123T101927_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201801231110373a_20180123111125_C001 CS_OFFL_SIR_IOPM_2_201801231111016_201801231111125_C001 CS_OFFL_SIR_IOPM_2_20180123111126_02180123111125_C001 CS_OFFL_SIR_IOPM_2_2018012311126_02180123111125_C001 CS_OFFL_SIR_IOPM_2_2018012311126_02180123111125_C001 CS_OFFL_SIR_IOPM_2_2018012311126_02180123111126_0201 CS_OFFL_SIR_IOPM_2_2018012311120027_201801231112054_201801231112054_20180123112054_20180123112054_20180123112054_20180123112054_201801231120554_201801231120554_201801231120554_201	CS_OFFL_SIR_IOPM_2_20180123T102142_20180123T102640_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T111016_20180123T111125_C001 CS_OFFL_SIR_IOPM_2_20180123T11125_C001 CS_OFFL_SIR_IOPM_2_20180123T112620_20180123T112530_C001 CS_OFFL_SIR_IOPM_2_20180123T12027_20180123T120538_C001 CS_OFFL_SIR_IOPM_2_20180123T120542_20180123T120545_C001 CS_OFFL_SIR_IOPM_2_20180123T120542_20180123T120551_C001 CS_OFFL_SIR_IOPM_2_20180123T120542_20180123T120551_C001 CS_OFFL_SIR_IOPM_2_20180123T120542_20180123T120551_C001 CS_OFFL_SIR_IOPM_2_20180123T120542_20180123T120548_C001 CS_OFFL_SIR_IOPM_2_20180123T120313_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T131103_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T131103_20180123T13132012_0001 CS_OFFL_SIR_IOPM_2_20180123T131103_20180123T133T33_C001 CS_OFFL_SIR_IOPM_2_20180123T1333048_C0001 CS_OFFL_SIR_IOPM_2_20180123T133048_20180123T133333_C001 CS_OFFL_SIR_IOPM_2_20180123T133048_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T133048_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T133048_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T135032_20180123T135456_C001 CS_OFFL_SIR_IOPM_2_20180123T1350352_20180123T135090_C001 CS_OFFL_SIR_IOPM_2_20180123T1350352_20180123T135090_C001 CS_OFFL_SIR_IOPM_2_20180123T1350390_20180123T135090_C001 CS_OFFL_SIR_IOPM_2_20180123T1350390_20180123T135090_C001 CS_OFFL_SIR_IOPM_2_20180123T1350390_20180123T135090_C001 CS_OFFL_SIR_IOPM_2_20180123T140950_20180123T140950_C001 CS_OFFL_SIR_IOPM_2_20180123T145359_20180123T145990_C001 CS_OFFL_SIR_IOPM_2_20180123T145359_20180123T15090_C001 CS_OFFL_SIR_IOPM_2_20180123T150309_20180123T15090_C001 CS_OFFL_SIR_IOPM_2_20180123T150309_20180123T15090_C001 CS_OFFL_SIR_IOPM_2_20180123T170328_20180123T170319_C001 CS_OFFL_SIR_IOPM_2_20180123T170328_20180123T170319_C001 CS_OFFL_SIR_IOPM_2_20180123T170328_20180123T170039_C001 CS_OFFL_SIR_IOPM_2_20180123T170328_20180123T170039_C001 CS_OFFL_SIR_IOPM_2_20180123T170328_20180123T170039_C001 CS_OFFL_SIR_IOPM_2_20180123T170328_20180123T170039_C001 CS_OFFL_SIR_IOPM_2_20180123T170328_20180123T170359_C001 CS_OFFL_SIR_IOPM_2_201	CS_OFFL_SIR_IOPM_2_20180123T102700_20180123T103018_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T112820_20180123T113621_C001 CS_OFFL_SIR_IOPM_2_20180123T112820_20180123T115839_C001 CS_OFFL_SIR_IOPM_2_20180123T120532_20180123T120538_C001 CS_OFFL_SIR_IOPM_2_20180123T120532_20180123T120551_C001 CS_OFFL_SIR_IOPM_2_20180123T120532_20180123T120551_C001 CS_OFFL_SIR_IOPM_2_20180123T120532_20180123T122918_C001 CS_OFFL_SIR_IOPM_2_20180123T123131_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T123131_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T123131_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T133733_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T133733_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T133733_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T133304_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T133332_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T135332_20180123T134490_C001 CS_OFFL_SIR_IOPM_2_20180123T135332_20180123T135456_C001 CS_OFFL_SIR_IOPM_2_20180123T140950_20180123T140950_2018012	CS_OFFL_SIR_IOPM_2_20180123T103739_20180123T110854_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T114262_20180123T112638_CO01 CS_OFFL_SIR_IOPM_2_20180123T120527_20180123T120538_CO01 CS_OFFL_SIR_IOPM_2_20180123T120532_20180123T120538_CO01 CS_OFFL_SIR_IOPM_2_20180123T120532_20180123T120538_CO01 CS_OFFL_SIR_IOPM_2_20180123T12133T20531_CO01 CS_OFFL_SIR_IOPM_2_20180123T121312_20180123T122388_CO01 CS_OFFL_SIR_IOPM_2_20180123T121312_20180123T1233733_CO01 CS_OFFL_SIR_IOPM_2_20180123T131303_0180123T123132_CO01 CS_OFFL_SIR_IOPM_2_20180123T131303_0180123T133733_CO01 CS_OFFL_SIR_IOPM_2_20180123T133333_2001 CS_OFFL_SIR_IOPM_2_20180123T133333_20180123T135456_CO01 CS_OFFL_SIR_IOPM_2_20180123T135333_20180123T135456_CO01 CS_OFFL_SIR_IOPM_2_20180123T135333_20180123T135456_CO01 CS_OFFL_SIR_IOPM_2_20180123T135339_20180123T1151701_CO01 CS_OFFL_SIR_IOPM_2_20180123T135359_20180123T1151701_CO01 CGRARange Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean	CS_OFFL_SIR_IOPM_2_20180123T111016_20180123T111125_C001	Ice Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180123T121532_20180123T122918_C001 CS_OFFL_SIR_IOPM_2_20180123T121313_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T131103_20180123T124308_C001 CS_OFFL_SIR_IOPM_2_20180123T131103_20180123T132122_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range A	CS_OFFL_SIR_IOPM_2_20180123T120027_20180123T120538_C001	Ice Range Averaging Status	
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	C3_OFFL_3IK_IOFM_Z_Z01801231172008_Z01801231174340_C001	Ocean Range Averaging Status	

		The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180123T181218_20180123T181351_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T182956_20180123T183557_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T183805_20180123T184353_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T184944_20180123T192240_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T195856_20180123T201520_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T201734_20180123T202245_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T202826_20180123T205056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T205340_20180123T210259_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T211442_20180123T211515_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T213336_20180123T215308_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T220838_20180123T224031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T225734_20180123T231639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T231700_20180123T232953_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180123T101944_20180123T102142_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180123T225244_20180123T225651_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T002235_20180123T002319_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T085319_20180123T085409_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T115839_20180123T115848_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T124940_20180123T125128_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T141631_20180123T141752_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T192647_20180123T193336_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T193846_20180123T193916_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T232953_20180123T233624_C001	Ocean Range Averaging Status	The Ocean 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 and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when

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. 78

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180122T234926_20180123T000537_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T000751_20180123T002235_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T002934_20180123T003145_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T003829_20180123T005343_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T005555_20180123T010516_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T013329_20180123T014042_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T014950_20180123T020429_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T020726_20180123T021548_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T021804_20180123T023514_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T023557_20180123T024027_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T031654_20180123T032007_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T032032_20180123T034358_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T034625_20180123T034823_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T034910_20180123T035407_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T035655_20180123T042240_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T045537_20180123T050532_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T051111_20180123T052143_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T052831_20180123T053430_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T053602_20180123T055842_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T062724_20180123T070126_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180123T070739_20180123T071301_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T071501_20180123T072056_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T075059_20180123T075304_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T075347_20180123T075441_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T080712_20180123T081541_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T081826_20180123T084044_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180123T084747_20180123T085154_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T085409_20180123T090658_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFL SIR IOPM 2 20180123T090845 20180123T091442 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T094550_20180123T101927_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180123T102142_20180123T102640_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T102700_20180123T103018_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T103739_20180123T110854_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T111016_20180123T111125_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T112820_20180123T113621_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T114205_20180123T115839_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180123T120027_20180123T120538_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T120544_20180123T120551_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T121532_20180123T122918_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T123131_20180123T124308_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T131103_20180123T132122_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T132301_20180123T133733_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180123T133948_20180123T134449_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T135323_20180123T135456_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T135711_20180123T140717_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T140952_20180123T141509_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20180123T145359 20180123T151701 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180123T152024_20180123T152405_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T153019_20180123T155904_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T163035_20180123T165628_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T165806_20180123T170319_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T170326_20180123T170653_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T171029_20180123T172120_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T172658_20180123T174340_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180123T181218_20180123T181351_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T182956_20180123T183557_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T183805_20180123T184353_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T184944_20180123T192240_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T195856_20180123T201520_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180123T201734_20180123T202245_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180123T202826_20180123T205056_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T205340_20180123T210259_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T211442_20180123T211515_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T213336_20180123T215308_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T220838_20180123T224031_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180123T225734_20180123T231639_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180123T231700_20180123T232953_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180123T234235_20180123T234557_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180123T101944_20180123T102142_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180123T225244_20180123T225651_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20180123T002235_20180123T002319_C001	Backscatter Averaging Status	more records.

CS_OFFL_SIR_IOPR_2_20180123T085319_20180123T085409_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T115839_20180123T115848_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T124940_20180123T125128_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T141631_20180123T141752_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T192647_20180123T193336_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T193846_20180123T193916_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180123T232953_20180123T233624_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag 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: 59

6. IOP L2 Pole-to-Pole Data Quality Check

6.1 P2P 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 NetCDF product file (.nc).

Number of products with errors:

6.2 P2P 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:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180122T234141_20180123T003119_C003	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180123T003119_20180123T012054_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180123T120554_20180123T125529_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice 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 P2P 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180122T234141_20180123T003119_C003	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T003119_20180123T012054_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T012054_20180123T021033_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T021033_20180123T030008_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T030008_20180123T034947_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T034947_20180123T043922_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T043922_20180123T052900_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T052900_20180123T061835_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T061835_20180123T070814_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T070814_20180123T075749_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T075749_20180123T084727_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T084727_20180123T093702_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T093702_20180123T102641_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T102641_20180123T111616_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_220180123T111616_20180123T120554_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T120554_20180123T125529_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T125529_20180123T134508_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T134508_20180123T143443_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T143443_20180123T152422_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T152422_20180123T161357_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T161357_20180123T170335_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T170335_20180123T175310_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T175310_20180123T184249_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T184249_20180123T193224_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T193224_20180123T202202_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T202202_20180123T211137_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T211137_20180123T220116_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T220116_20180123T225051_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T225051_20180123T234029_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice 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 P2P 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. 29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180122T234141_20180123T003119_C003	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T003119_20180123T012054_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T012054_20180123T021033_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T021033_20180123T030008_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T030008_20180123T034947_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T034947_20180123T043922_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T043922_20180123T052900_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T052900_20180123T061835_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T061835_20180123T070814_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T070814_20180123T075749_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T075749_20180123T084727_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T084727_20180123T093702_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T093702_20180123T102641_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T102641_20180123T111616_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T111616_20180123T120554_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T120554_20180123T125529_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T125529_20180123T134508_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T134508_20180123T143443_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T143443_20180123T152422_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_220180123T152422_20180123T161357_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T161357_20180123T170335_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T170335_20180123T175310_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180123T175310_20180123T184249_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T184249_20180123T193224_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T193224_20180123T202202_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T202202_20180123T211137_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T211137_20180123T220116_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T220116_20180123T225051_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180123T225051_20180123T234029_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

Cryosat P2P 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180122T234141_20180123T003119_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T003119_20180123T012054_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T012054_20180123T021033_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T021033_20180123T030008_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T030008_20180123T034947_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T034947_20180123T043922_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T052900_20180123T061835_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T061835_20180123T070814_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T070814_20180123T075749_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T075749_20180123T084727_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T084727_20180123T093702_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T093702_20180123T102641_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T102641_20180123T111616_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T111616_20180123T120554_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T120554_20180123T125529_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T125529_20180123T134508_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T134508_20180123T143443_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T161357_20180123T170335_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T170335_20180123T175310_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T175310_20180123T184249_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T184249_20180123T193224_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T193224_20180123T202202_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T202202_20180123T211137_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T220116_20180123T225051_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180123T225051_20180123T234029_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.