



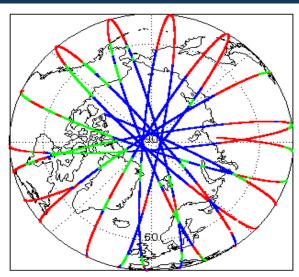
1. Overview

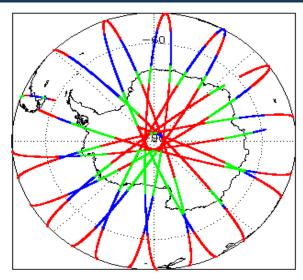
Report Production:	19-Nov-2018	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

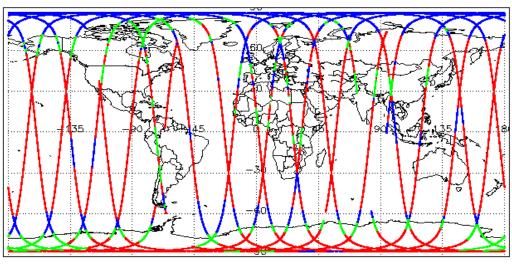
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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

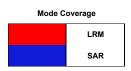
Mission / Instrument News	
14-Nov-2018	None
15-Nov-2018	SIRAL unavailability on 15-Nov-2018 from 08:33:44 to 10:19:43 due to a planned orbit manoeuvre.
16-Nov-2018	Nothing planned

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.

2

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.

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

 Product
 Test Failed
 Description

 CS_OFFL_SIR_IOPM1B_20181115T101958_20181115T103659_C001
 Power scaling error
 There is an error in the scaling of the L1B waveform for one or more records

 CS_OFFL_SIR_IOPM1B_20181115T120210_20181115T121146_C001
 Power scaling error
 There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag 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:

Product Test Failed Description CS_OFFL_SIR_IOPM1B_20181115T101958_20181115T103659_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPM1B_20181115T142959_20181115T145729_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPM1B_20181115T203505_20181115T205019_C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR IOPN1B 20181115T115355 20181115T115944 C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20181115T132844_20181115T132917_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20181115T151601_20181115T152027_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20181115T181615_20181115T181814_C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR IOPN1B 20181115T232012 20181115T232441 C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20181115T015313_20181115T020315_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20181115T055452_20181115T055912_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20181115T073312_20181115T074001_C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR IOPR1B 20181115T105520 20181115T105643 C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR IOPR1B 20181115T123457 20181115T123644 C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20181115T163400_20181115T163435_C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR IOPR1B 20181115T174533 20181115T174940 C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR IOPR1B 20181115T181815 20181115T181922 C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20181115T181922_20181115T182346_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20181115T200646_20181115T201402_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20181115T232441_20181115T233153_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:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors: 0

5.4 L2 Auxiliary Correction Error Check

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

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181115T101958_20181115T103659_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_20181115T120210_20181115T121146_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.

Number of products with errors:

70

Product	Test Failed	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181115T003557_20181115T005824_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181115T010331_20181115T010702_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T011421_20181115T014141_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T020438_20181115T023747_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T024113_20181115T024616_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T025442_20181115T030425_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T031001_20181115T032730_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T034018_20181115T034218_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T035059_20181115T040006_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T041301_20181115T041623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T042112_20181115T042648_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T043415_20181115T050638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T051937_20181115T052050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T053916_20181115T055452_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T060033_20181115T060543_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181115T061241_20181115T064727_C001	Ocean Range Averaging Status	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
CS_OFFL_SIR_IOPM_2_20181115T065823_20181115T070002_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181115T071017_20181115T071438_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181115T071534_20181115T073312_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181115T075219_20181115T081042_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181115T081345_20181115T082627_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T101958_20181115T103659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T105250_20181115T105520_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T110003_20181115T110759_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T111057_20181115T112521_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T120010_20181115T120155_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T120210_20181115T121146_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T121149_20181115T123457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T123833_20181115T124043_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T124106_20181115T124647_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T134615_20181115T135740_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T140317_20181115T141322_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T142042_20181115T142515_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T142959_20181115T145729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T152027_20181115T155137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T155952_20181115T160527_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T160914_20181115T161312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T164420_20181115T164621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T165908_20181115T173200_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T173855_20181115T174408_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T174940_20181115T180550_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T183636_20181115T191042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T191551_20181115T191854_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T192808_20181115T195412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181115T195426_20181115T200137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
	cauge / troidging claude	records.

CS_OFFL_SIR_IOPM_2_20181115T200308_20181115T200535_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T201624_20181115T202829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T203311_20181115T203502_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T203505_20181115T205019_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T205234_20181115T205753_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T205812_20181115T210012_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T210843_20181115T212130_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T212343_20181115T214134_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T220302_20181115T221234_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T221253_20181115T221330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T221509_20181115T222858_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T223159_20181115T223704_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T223728_20181115T223843_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T225520_20181115T225718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T230320_20181115T230720_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T230843_20181115T231554_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T231716_20181115T231853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T234745_20181115T234942_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181115T215926_20181115T220302_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181115T025126_20181115T025442_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181115T030425_20181115T031001_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181115T114741_20181115T115355_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181115T192419_20181115T192808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181115T214134_20181115T214241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181115T231854_20181115T231929_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 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. 69

Product	rest railed	Description
CS_OFFL_SIR_IOPM_2_20181115T003557_20181115T005824_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_20181115T010331_20181115T010702_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T010724_20181115T011053_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T011421_20181115T014141_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_20181115T020438_20181115T023747_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_20181115T024113_20181115T024616_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T025442_20181115T030425_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_20181115T031001_20181115T032730_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_20181115T034018_20181115T034218_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_20181115T035059_20181115T040006_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_20181115T041301_20181115T041623_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_20181115T042112_20181115T042648_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T043415_20181115T050638_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_20181115T051937_20181115T052050_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_20181115T053916_20181115T055452_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_20181115T060033_20181115T060543_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181115T061241_20181115T064727_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_20181115T065823_20181115T070002_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T071017_20181115T071438_C001 **Backscatter Averaging Status** SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T071534_20181115T073312_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T075219_20181115T081042_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T081345_20181115T082627_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T101958 20181115T103659 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T105250_20181115T105520_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181115T110003 20181115T110759 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T111057 20181115T112521 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T120010_20181115T120155_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T120210_20181115T121146_C001 Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR IOPM 2 20181115T121149 20181115T123457 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181115T123833_20181115T124043_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181115T124106 20181115T124647 C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20181115T134615_20181115T135740_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T140317_20181115T141322_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181115T142042 20181115T142515 C001 Ice Backscatter Averaging Status ecords SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T142959 20181115T145729 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T150432_20181115T150648_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T152027 20181115T155137 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T160914_20181115T161312_C001 Backscatter Averaging Status more records. The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20181115T164420_20181115T164621_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T165908 20181115T173200 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181115T173855_20181115T174408_C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR IOPM 2 20181115T174940 20181115T180550 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T183636 20181115T191042 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T192808_20181115T195412_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T195426_20181115T200137_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181115T200308_20181115T200535_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T201624_20181115T202829_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T203311 20181115T203502 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T203505_20181115T205019_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181115T205234_20181115T205753_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181115T205812 20181115T210012 C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T210843_20181115T212130_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T212343_20181115T214134_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T220302 20181115T221234 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T221253_20181115T221330_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20181115T221509_20181115T222858_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181115T223159 20181115T223704 C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181115T225520 20181115T225718 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T230320_20181115T230720_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T230843_20181115T231554_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T231716_20181115T231853_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181115T234745_20181115T234942_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPN_2_20181115T215926_20181115T220302_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPR_2_20181115T025126_20181115T025442_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPR 2 20181115T030425 20181115T031001 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPR_2_20181115T114741_20181115T115355_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPR_2_20181115T192419_20181115T192808_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPR 2 20181115T214134 20181115T214241 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPR_2_20181115T231854_20181115T231929_C001 Backscatter Averaging Status 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:

53

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:

Λ

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:

0

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:

0

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:

2

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181115T101301_20181115T110240_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_2_20181115T115214_20181115T124154_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.

Number of products with errors:

27

e Averaging Status Flag has been set for one or more
e Averaging Status Flag has been set for one or more
te Range Averaging Status Flags have been set for one
e Averaging Status Flag has been set for one or more
e Range Averaging Status Flags have been set for one
e Averaging Status Flag has been set for one or more
e Range Averaging Status Flags have been set for one
e Averaging Status Flag has been set for one or more
e Range Averaging Status Flags have been set for one
e Range Averaging Status Flags have been set for one
e Range Averaging Status Flags have been set for one
e Range Averaging Status Flags have been set for one
e Averaging Status Flag has been set for one or more
veraging Status Flag has been set for one or more
e Range Averaging Status Flags have been set for one
e Range Averaging Status Flags have been set for one
e Range Averaging Status Flags have been set for one
e Range Averaging Status Flags have been set for one
e Averaging Status Flag has been set for one or more
te Range Averaging Status Flags have been set for one
te Range Averaging Status Flags have been set for one
ce Range Averaging Status Flags have been set for one

CS_OFFL_SIR_IOP_220181115T200822_20181115T205801_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_2_20181115T205801_20181115T214736_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181115T214736_20181115T223715_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_2_20181115T223715_20181115T232649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181115T232649_20181116T001629_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.

SQ. OFFL. SRI, IOP 2_20181115703612_20181115705634_2018115705634_2018115705634_2018115705634_2018115705634_2018115705634_2018115705634_2018115705634_2018115705634_2018115705635_2001 SQ. OFFL. SRI, IOP 2_2018111570563_2018115705635_2001 SQ. OFFL. SRI, IOP 2_2018111570563_2018115705635_2001 SQ. OFFL. SRI, IOP 2_2018115705632_2018115705635_2001 SQ. OFFL. SRI, IOP 2_2018115705636_2001 SQ. OFFL. SRI, IOP 2_2018115705636_20018115705636_2001 SQ. OFFL. SRI, IOP 2_2018115705636_20018115706636_200	Product	Test Failed	Description
Backscotter Averaging Status. Coam Dackscotter Aver	CS_OFFL_SIR_IOP_220181115T001739_20181115T010719_C001		
Backsoater Averaging Status Emport Colored Severaging Status Flags have been set for one or not	CS_OFFL_SIR_IOP_220181115T010719_20181115T015653_C001		
Backsozier Averaging Status Programmer Cords. SPH Averaging Status Coera Backsozier Averaging Status Programmer Cords. SPH Averaging Status Coera Backsozier Averaging Status Programmer Cords. SPH Averaging Status Coera Backsozier Averaging S	CS_OFFL_SIR_IOP_220181115T015653_20181115T024632_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_JOP_2_20181115T030507_2018115T1030520_C001 CS_OFFL_SIR_JOP_2_20181115T030520_C0018115T080490_C001 CS_OFFL_SIR_JOP_2_20181115T060459_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T060459_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T060459_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T060459_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T060459_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T060459_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T060459_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T0704413_20181115T080434_C001 CS_OFFL_SIR_JOP_2_20181115T0704413_20181115T108040_C001 CS_OFFL_SIR_JOP_2_20181115T10704413_20181115T108040_C001 CS_OFFL_SIR_JOP_2_20181115T10704413_20181115T108040_C001 CS_OFFL_SIR_JOP_2_20181115T1070413_20181115T11624_C001 CS_OFFL_SIR_JOP_2_20181115T11624_20181115T11624_C001 CS_OFFL_SIR_JOP_2_20181115T11624_20181115T11624_C001 CS_OFFL_SIR_JOP_2_20181115T11624_20181115T11624_C001 CS_OFFL_SIR_JOP_2_20181115T116142_20181115T11624_C001 CS_OFFL_SIR_JOP_2_20181115T116142_20181115T116142_C001 CS_OFFL_SIR_JOP_2_20181115T116144_20181115T116142_C001 CS_OFFL_SIR_JOP_2_20181115T116144_20181115T116142_C001 CS_OFFL_SIR_JOP_2_20181115T116144_20181115T116142_C001 CS_OFFL_SIR_JOP_2_20181115T116145_20181115T116142_C001 CS_OFFL_SIR_JOP_2_20181115T116145_20181115T116042_C001 CS_OFFL_SIR_JOP_2_20181115T116144_20181115T116042_C001 CS_OFFL_SIR_JOP_2_20181115T1161442_20181115T116042_C001 CS_OFFL_SIR_JOP_2_20	CS_OFFL_SIR_IOP_220181115T024632_20181115T033607_C001		
Backscater Averaging Status Flags have been set for one or more records. SWH Averaging Status Ces. OFFL_SIR_JOP_2_2018115T05502_2018115T06449_C001 SWH Averaging Status Ces. SWH Averaging Sta	CS_OFFL_SIR_IOP_220181115T033607_20181115T042546_C001	Backscatter Averaging Status, Ice	
Backscatter Averaging Status, Loca Backscatter Averaging Status, Loca Backscatter Averaging Status, Loca Backscatter Averaging Status (Dean Averaging Status Plags have been set for one or more records. CS_OFFL_SIR_JOP_2_20181115T065434_20181115T074413_C001 Backscatter Averaging Status, Loca Ba	CS_OFFL_SIR_IOP_220181115T042546_20181115T051520_C001		
CS_OFFL_SIR_IOP_2_20181115706434_20181115705434_C001 Blackscatter Averaging Status. Ice Backscatter Averaging Status SHA SHA Averaging Status SHA	CS_OFFL_SIR_IOP_220181115T051520_20181115T060459_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
GS_OFFL_SIR_IOP_2_20181115T10431_20181115T10424_CO01 GS_OFFL_SIR_IOP_2_20181115T10431_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T101301_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T101301_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T110240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T110240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T110240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10240_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10200_CO01 GS_OFFL_SIR_IOP_2_20181115T10240_20181115T10200_CO01 GS_OFFL_SIR_IOP_2_20181115T1042_20181115T10020_CO01 GS_OFFL_SIR_IOP_2_20181115T1042_20181115T10020_CO01 GS_OFFL_SIR_IOP_2_20181115T10020_20181115T100021_CO01 GS_OFFL_SIR_IOP_2_20181115T100021_20181115T100021_CO01 GS_OFFL_SIR_IOP_2_20181115T100021_20181115T100021_CO01 GS_OFFL_SIR_IOP_2_20181115T100021_20181115T100021_CO01 GS_OFFL_SIR_IOP_2_20181115T100021_20181115T100001_CO01 GS_OFFL_SIR_IOP_2_20181115T100001_20181115T100001_CO01 GS_OFF	CS_OFFL_SIR_IOP_220181115T060459_20181115T065434_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
Sex-scater Averaging Status, loe Backscatter Averaging Status, Coean Backscatter Averaging Status Backscatter Averaging S	CS_OFFL_SIR_IOP_2_20181115T065434_20181115T074413_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
Sackscatter Averaging Status, loc Backscatter Averaging Status, loc Backscatter Averaging Status SWH Averaging Status, loc Backscatter Averaging Status SWH Averaging Status SWH Averaging Status SWH Averaging Status CS_OFFL_SIR_IOP_2_20181115T115214_20181115T1124154_C001 SWH Averaging Status CS_OFFL_SIR_IOP_2_20181115T115214_20181115T124154_C001 SWH Averaging Status SWH Averaging Status SWH Averaging Status SWH Averaging Status CS_OFFL_SIR_IOP_2_20181115T133128_20181115T142107_C001 Backscatter Averaging Status SWH Averaging Status, loc Backscatter Averaging Status SWH Averaging Stat	CS_OFFL_SIR_IOP_220181115T074413_20181115T083347_C001	Backscatter Averaging Status, Ice	
SOFFL_SIR_IOP_2_20181115T116214_20181115T15214_C001 Backscatter Averaging Status, loc Backscatter Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20181115T132145_20181115T133128_C001 CS_OFFL_SIR_IOP_2_20181115T133128_20181115T133128_C001 CS_OFFL_SIR_IOP_2_20181115T133128_20181115T133128_C001 CS_OFFL_SIR_IOP_2_20181115T133128_20181115T142107_C001 Backscatter Averaging Status, loc Backscatter Averaging Status	CS_OFFL_SIR_IOP_220181115T101301_20181115T110240_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20181115T124154_20181115T133128_C001 CS_OFFL_SIR_IOP_2_20181115T133128_20181115T142107_C001 SWH Averaging Status, Cean Backscatter Averaging Status, loe Backscatter Averaging Status, loe Backscatter Averaging Status, Dean Backscatter Averaging Status, loe Backscatter Averaging Status, loe Backscatter Averaging Status, Dean Backscatter Averaging Stat	CS_OFFL_SIR_IOP_2_20181115T110240_20181115T115214_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20181115T13128_20181115T142107_C001 SWH Averaging Status, Lee Backscatter Averaging Status, Lee Backscatter Averaging Status, Cean Backscatter Averaging Status, Cean Backscatter Averaging Status, Cean Backscatter Averaging Status Status Status SWH Averaging Status, Cean Backscatter Averaging Status Status Season Cean Backscatter Averaging Status, Cean Backscatter Averaging Status	CS_OFFL_SIR_IOP_220181115T115214_20181115T124154_C001		
SOFFL_SIR_IOP_2_20181115T133128_20181115T142107_C001 Backscatter Averaging Status, loce Backscatter Averaging Status (Backscatter Averaging Status) CS_OFFL_SIR_IOP_2_20181115T142107_20181115T160021_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, loce Backscatter Averaging Status (Backscatter Averaging Status) CS_OFFL_SIR_IOP_2_20181115T160021_20181115T160021_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, loce Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status, loce Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20181115T164955_20181115T173934_C001 SWH Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20181115T173934_20181115T182909_C001 SWH Averaging Status, Ocean Backscatter Averaging	CS_OFFL_SIR_IOP_220181115T124154_20181115T133128_C001	Ice Backscatter Averaging Status	
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CS_OFFL_SIR_IOP_2_20181115T160021_20181115T164955_C001 Backscatter Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20181115T164955_20181115T173934_C001 CS_OFFL_SIR_IOP_2_20181115T164955_20181115T173934_C001 SWH Averaging Status, Ocean Backscatter Averaging	CS_OFFL_SIR_IOP_2_20181115T142107_20181115T151042_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20181115T160021_20181115T164955_C001 Backscatter Averaging Status, loe Backscatter Averaging Status or more records. SWH Averaging Status, Ocean Backscatter Averaging Status or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averagin	CS_OFFL_SIR_IOP_220181115T151042_20181115T160021_C001		
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CS_OFFL_SIR_IOP_2_20181115T173934_20181115T182909_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Aver	CS_OFFL_SIR_IOP_220181115T164955_20181115T173934_C001	Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20181115T191848_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status Ice Backscatter Averaging	CS_OFFL_SIR_IOP_220181115T173934_20181115T182909_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20181115T191848_20181115T200822_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter	CS_OFFL_SIR_IOP_220181115T182909_20181115T191848_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20181115T200822_20181115T205801_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status SWH Averaging Status The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOP_220181115T191848_20181115T200822_C001	Backscatter Averaging Status, Ice	
Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status, Ice backscatter Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOP_220181115T200822_20181115T205801_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20181115T214736_20181115T223715_C001 Backscatter Averaging Status, Ice	CS_OFFL_SIR_IOP_220181115T205801_20181115T214736_C001		
	CS_OFFL_SIR_IOP_220181115T214736_20181115T223715_C001	Backscatter Averaging Status, Ice	

CS_OFFL_SIR_IOP_220181115T223715_20181115T232649_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_220181115T232649_20181116T001629_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.

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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.

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