

IDEAS+ Daily Report for IOP data:

<u>09/03/2018</u>



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Protection Protection Normal Normal Audiary Control Ferro Check Son Section 6.5 Son Section 6.5 Son Section 6.5 Range, SYME Backscatter Measurement Check Son Section 6.5 Son Section 6.5 Name 2010 Normal Normal Normal Name 2010 Sec Section 6.5 Son Section 6.5 Soc Section 6.5 Name 2010 Normal Normal Normal Name 2010 Normal Sec Section 6.5 Soc Section 6.5 Name 2010 Normal Sec Section 6.5 Soc Section 6.5 Name 2010 Normal Sec Section 6.5 Soc Section 6.5 Name 2010 Normal Sec Section 6.5 Soc Section 6.5 Name 2010 Normal Normal Normal Name 2010 Normal Normal Normal Name 2010 Normal Normal Normal Name 2010 Normal Normal Sec Section 6.5 Name 2010 Normal Normal Normal	Data Lleod:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Audity Correction Erro Check Barge, SWH & Backscatter Measurement Confect See Section 6.5, 5.7 See Section 6.8 Normal See Section 6.8 Status See Section 6.8 <	Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
Measurement Confidence Data Check See Section 6.6, 5.7 See Section 7.6, 5.7 </td <td></td> <td></td> <td>Auxiliary Data File Usage Check</td> <td>Nominal</td> <td>Nominal</td>			Auxiliary Data File Usage Check	Nominal	Nominal
Bandpill, SVH & Bandbackmerr Messurement, Deex See Section 8.8. See Section 8.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New See Section 9.4. See Section 9.4. Stand / Instrument New			Auxiliary Correction Error Check	Nominal	Nominal
Ocean Retracting Quality Check See Section 8.3 See Section 8.4 Stars-2018 Non- Stars-2018 Stars-2018 Stars-2018 S				See Section 4.6	Nominal
			Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.
					See Section 6.8
<section-header></section-header>	8-Mar-2018 None 9-Mar-2018 None				
<figure></figure>	0-Mar-2018 Nothing	planned	2. Global Coverage		
SAR					Mode Coverage
	≤ 2		XXXXXX		

3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL - A

0

SIRAL instrument(s) in use:

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:

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.
Number of products with errors:
0

Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.					
Number of products with errors: 0							
4.4 L1B Auxiliary Correction Error Check							
CryoSat L1B data includes a correction error flag for each measurement recor	rd. The bit value of this flag indicat	es any problems when set.					
Number of products with errors: 0							
4.5 L1B Measurement Confidence Data Check							
CryoSat L1B data includes a measurement confidence flag for each measure	ment record. The bit value of this f	ag indicates any problems when set.					
Attitude Correction Missing: This flag is currently set in error for IOPR produ	ucts due to a configuration issue. T	his is being investigated and will be updated in the next SW update.					
Number of products with errors: 0							
4.6 L1B Waveform Group Data Check							
CryoSat L1B data includes a waveform data flag for each measurement recor	d. The bit value of this flag indicate	es any problems when set					
Loss of Echo Flag: This flag is currently set for products over land, but this is	-						
Number of products with errors: 15							
Product	Test Failed	Description					
CS_OFFL_SIR_IOPM1B_20180309T030621_20180309T032057_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS OFFL SIR IOPM1B 20180309T120625 20180309T124038 C001	Loss of Echo	The tracking echo is missing for one or more records					
	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPM1B_20180309T222039_20180309T223003_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T011723_20180309T012209_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T074647_20180309T075056_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T092859_20180309T092954_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T110653_20180309T110905_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T224707_20180309T224815_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T224917_20180309T225032_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T232120_20180309T232445_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPN1B_20180309T234022_20180309T234210_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPR1B_20180309T043128_20180309T043918_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPR1B_20180309T075941_20180309T080245_C001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOPR1B_20180309T110147_20180309T110315_C001	Loss of Echo	The tracking echo is missing for one or more records					
	D Loval 2 Data Over	lity Chook					
5. [OP Level 2 Data Qua						
5.1 L2 Product Format Check							
Each product, retrigued and uppacked from the science server, is checked to	ensure it consists of both an XML	header file (.HDR) and a binary product file (.DBL).					
Number of products with errors: 0							

5.3 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).

0

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:

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. 79

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180308T235552_20180309T002010_C001	IUcean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T002226_20180309T003116_C001	lice Rande Averading Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T003320_20180309T005544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180309T013256_20180309T015933_C001 CS OFFL SIR IOPM 2 20180309T020439 20180309T020906 C001 CS_OFFL_SIR_IOPM_2_20180309T021204_20180309T024549_C001 CS_OFFL_SIR_IOPM_2_20180309T030621_20180309T032057_C001 CS_OFFL_SIR_IOPM_2_20180309T032632_20180309T033830_C001 CS_OFFL_SIR_IOPM_2_20180309T034354_20180309T034944_C001 CS OFFL SIR IOPM 2 20180309T035109 20180309T041704 C001 CS OFFL SIR IOPM 2 20180309T042854 20180309T042944 C001 CS_OFFL_SIR_IOPM_2_20180309T044221_20180309T051728_C001 CS_OFFL_SIR_IOPM_2_20180309T052300_20180309T052815_C001 CS_OFFL_SIR_IOPM_2_20180309T052951_20180309T053259_C001 CS_OFFL_SIR_IOPM_2_20180309T053459_20180309T053821_C001 CS OFFL SIR IOPM 2 20180309T053926 20180309T054459 C001 CS_OFFL_SIR_IOPM_2_20180309T054502_20180309T054646_C001 CS_OFFL_SIR_IOPM_2_20180309T060533_20180309T060819_C001 CS OFFL SIR IOPM 2 20180309T062224 20180309T063106 C001 CS_OFFL_SIR_IOPM_2_20180309T063352_20180309T065626_C001 CS_OFFL_SIR_IOPM_2_20180309T070308_20180309T070716_C001 CS_OFFL_SIR_IOPM_2_20180309T070856_20180309T072224_C001 CS_OFFL_SIR_IOPM_2_20180309T072412_20180309T073130_C001 CS_OFFL_SIR_IOPM_2_20180309T074405_20180309T074413_C001 CS OFFL SIR IOPM 2 20180309T074413 20180309T074511 C001 CS_OFFL_SIR_IOPM_2_20180309T080245_20180309T083501_C001 CS OFFL SIR IOPM 2 20180309T083632 20180309T084159 C001 CS OFFL SIR IOPM 2 20180309T085302 20180309T090532 C001 CS OFFL SIR IOPM 2 20180309T090554 20180309T092311 C001 CS_OFFL_SIR_IOPM_2_20180309T092658_20180309T092859_C001 CS_OFFL_SIR_IOPM_2_20180309T094445_20180309T095624_C001 CS_OFFL_SIR_IOPM_2_20180309T095828_20180309T101415_C001 CS OFFL SIR IOPM 2 20180309T101558 20180309T102056 C001 CS_OFFL_SIR_IOPM_2_20180309T102135_20180309T102257_C001 CS_OFFL_SIR_IOPM_2_20180309T103006_20180309T103810_C001 CS OFFL SIR IOPM 2 20180309T104658 20180309T105811 C001 CS_OFFL_SIR_IOPM_2_20180309T113752_20180309T115303_C001 CS_OFFL_SIR_IOPM_2_20180309T115517_20180309T120008_C001 CS OFFL SIR IOPM 2 20180309T120625 20180309T124038 C001 CS_OFFL_SIR_IOPM_2_20180309T130815_20180309T133247_C001 CS OFFL SIR IOPM 2 20180309T133553 20180309T133923 C001 CS OFFL SIR IOPM 2 20180309T134534 20180309T141300 C001 CS_OFFL_SIR_IOPM_2_20180309T144220_20180309T151209_C001 CS_OFFL_SIR_IOPM_2_20180309T151339_20180309T151837_C001 CS OFFL SIR IOPM 2 20180309T151845 20180309T152213 C001 CS_OFFL_SIR_IOPM_2_20180309T152506_20180309T153650_C001 CS OFFL SIR IOPM 2 20180309T154226 20180309T160013 C001 CS_OFFL_SIR_IOPM_2_20180309T164847_20180309T165156_C001 CS_OFFL_SIR_IOPM_2_20180309T165337_20180309T165909_C001 CS OFFL SIR IOPM 2 20180309T170418 20180309T173832 C001 CS_OFFL_SIR_IOPM_2_20180309T175214_20180309T175328_C001 CS_OFFL_SIR_IOPM_2_20180309T181135_20180309T183114_C001 CS OFFL SIR IOPM 2 20180309T183256 20180309T183805 C001 CS_OFFL_SIR_IOPM_2_20180309T184322_20180309T191801_C001

Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status

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The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more ecords 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 Ice 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 Ice Range Averaging Status Flag has been set for one or more record 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 ecords 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 Ice 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 Ice 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 Ice 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 Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The 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 ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The 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 Ice 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 Ice Range Averaging Status Flag has been set for one or more ecords The Ice 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 Ice 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 ecords 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 Ice 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_20180309T194245_20180309T194718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T194801_20180309T200538_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T202354_20180309T204130_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T204612_20180309T205328_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T211325_20180309T213049_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T213226_20180309T214632_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T220258_20180309T221837_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T222039_20180309T223003_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T224815_20180309T224917_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T225802_20180309T230905_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T231512_20180309T232120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T232445_20180309T232926_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T233218_20180309T234022_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T234213_20180309T235751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T003116_20180309T003320_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T083510_20180309T083632_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T092320_20180309T092442_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T134313_20180309T134457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T183139_20180309T183256_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T224707_20180309T224815_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180309T060456_20180309T060533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180309T065626_20180309T065714_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180309T073633_20180309T074404_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180309T200538_20180309T200841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180309T224028_20180309T224217_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. 79

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180308T235552_20180309T002010_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_20180309T002226_20180309T003116_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T003320_20180309T005544_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_20180309T013256_20180309T015933_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_20180309T020439_20180309T020906_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T021204_20180309T024549_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_20180309T030621_20180309T032057_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_20180309T032632_20180309T033830_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_20180309T034354_20180309T034944_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T035109_20180309T041704_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_20180309T044221_20180309T051728_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_20180309T052300_20180309T052815_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180309T052951_20180309T053259_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_20180309T053459_20180309T053821_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_20180309T053926_20180309T054459_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_20180309T054502_20180309T054646_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_20180309T060533_20180309T060819_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_20180309T062224_20180309T063106_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_20180309T063352_20180309T065626_C001 CS OFFL SIR IOPM 2 20180309T070308 20180309T070716 C001 CS_OFFL_SIR_IOPM_2_20180309T070856_20180309T072224_C001 CS_OFFL_SIR_IOPM_2_20180309T072412_20180309T073130_C001 CS OFFL SIR IOPM 2 20180309T074405 20180309T074413 C001 CS_OFFL_SIR_IOPM_2_20180309T074413_20180309T074511_C001 CS OFFL SIR IOPM 2 20180309T080245 20180309T083501 C001 CS OFFL SIR IOPM 2 20180309T083632 20180309T084159 C001 CS_OFFL_SIR_IOPM_2_20180309T085302_20180309T090532_C001 CS_OFFL_SIR_IOPM_2_20180309T090554_20180309T092311_C001 CS_OFFL_SIR_IOPM_2_20180309T092658_20180309T092859_C001 CS_OFFL_SIR_IOPM_2_20180309T094445_20180309T095624_C001 CS OFFL SIR IOPM 2 20180309T095828 20180309T101415 C001 CS_OFFL_SIR_IOPM_2_20180309T101558_20180309T102056_C001 CS_OFFL_SIR_IOPM_2_20180309T102135_20180309T102257_C001 CS OFFL SIR IOPM 2 20180309T103006 20180309T103810 C001 CS_OFFL_SIR_IOPM_2_20180309T104658_20180309T105811_C001 CS_OFFL_SIR_IOPM_2_20180309T113752_20180309T115303_C001 CS OFFL SIR IOPM 2 20180309T115517 20180309T120008 C001 CS_OFFL_SIR_IOPM_2_20180309T120625_20180309T124038_C001 CS_OFFL_SIR_IOPM_2_20180309T130815_20180309T133247_C001 CS OFFL SIR IOPM 2 20180309T133553 20180309T133923 C001 CS_OFFL_SIR_IOPM_2_20180309T134534_20180309T141300_C001 CS OFFL SIR IOPM 2 20180309T144220 20180309T151209 C001 CS OFFL SIR IOPM 2 20180309T151339 20180309T151837 C001 CS OFFL SIR IOPM 2 20180309T151845 20180309T152213 C001 CS_OFFL_SIR_IOPM_2_20180309T152506_20180309T153650_C001 CS_OFFL_SIR_IOPM_2_20180309T154226_20180309T160013_C001 CS_OFFL_SIR_IOPM_2_20180309T164847_20180309T165156_C001 CS OFFL SIR IOPM 2 20180309T165337 20180309T165909 C001 CS_OFFL_SIR_IOPM_2_20180309T170418_20180309T173832_C001 CS_OFFL_SIR_IOPM_2_20180309T175214_20180309T175328_C001 CS OFFL SIR IOPM_2_20180309T181135_20180309T183114_C001 CS_OFFL_SIR_IOPM_2_20180309T183256_20180309T183805_C001 CS_OFFL_SIR_IOPM_2_20180309T184322_20180309T191801_C001 CS_OFFL_SIR_IOPM_2_20180309T194245_20180309T194718_C001 CS_OFFL_SIR_IOPM_2_20180309T194801_20180309T200538_C001 CS_OFFL_SIR_IOPM_2_20180309T202354_20180309T204130_C001 CS OFFL SIR IOPM 2 20180309T204612 20180309T205328 C001 CS_OFFL_SIR_IOPM_2_20180309T211325_20180309T213049_C001 CS_OFFL_SIR_IOPM_2_20180309T213226_20180309T214632_C001 CS_OFFL_SIR_IOPM_2_20180309T215720_20180309T220120_C001 CS_OFFL_SIR_IOPM_2_20180309T220258_20180309T221837_C001 CS_OFFL_SIR_IOPM_2_20180309T222039_20180309T223003_C001 CS_OFFL_SIR_IOPM_2_20180309T224815_20180309T224917_C001 CS_OFFL_SIR_IOPM_2_20180309T225802_20180309T230905_C001 CS OFFL SIR IOPM 2 20180309T231512 20180309T232120 C001 CS_OFFL_SIR_IOPM_2_20180309T232445_20180309T232926_C001 CS_OFFL_SIR_IOPM_2_20180309T233218_20180309T234022_C001 CS OFFL SIR IOPM 2 20180309T234213 20180309T235751 C001 CS_OFFL_SIR_IOPN_2_20180309T003116_20180309T003320_C001

SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status 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 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.

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

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

The Ice Backscatter Averaging Status Flag has 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 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 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 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 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.

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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 Ice Backscatter Averaging Status Flag has 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 Ice Backscatter Averaging Status Flag has 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 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 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.

CS_OFFL_SIR_IOPN_2_20180309T083510_20180309T083632_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T092320_20180309T092442_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T134313_20180309T134457_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_IOPN_2_20180309T183139_20180309T183256_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180309T224707_20180309T224815_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180309T060456_20180309T060533_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_20180309T065626_20180309T065714_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_20180309T073633_20180309T074404_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_20180309T200538_20180309T200841_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_20180309T224028_20180309T224217_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: 64

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). 0

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:

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. 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180308T233623_20180309T002557_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180309T002557_20180309T011536_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_220180309T011536_20180309T020510_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_220180309T020510_20180309T025450_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_220180309T025450_20180309T034424_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180309T034424_20180309T043403_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_220180309T043403_20180309T052337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180309T052337_20180309T061317_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_220180309T061317_20180309T070251_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180309T070251_20180309T075230_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_220180309T075230_20180309T084204_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_220180309T084204_20180309T093144_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_220180309T093144_20180309T102118_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_220180309T102118_20180309T111057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180309T111057_20180309T120032_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.

		The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOP_220180309T120032_20180309T125011_C001	Ocean Range Averaging Status	records.
	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
	Range Averaging Status	or more records.
CS_OFFL_SIR_IOP_220180309T133945_20180309T142925_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
	Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOP_220180309T151859_20180309T160838_C001	Ocean Range Averaging Status	records.
	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
	Range Averaging Status	
CS_OFFL_SIR_IOP_220180309T165812_20180309T174752_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR IOP 2 20180309T174752 20180309T183726 C001	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
C3_011E_31K_10F_22010030911/4/32_201003091103/20_0001	Range Averaging Status	or more records.
CS OFFL SIR IOP 2 20180309T183726 20180309T192705 C001	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
C3_OFFL_SIR_IOF_2201803091183720_201803091192705_C001	Range Averaging Status	or more records.
CS OFFL SIR IOP 2 20180309T192705 20180309T201639 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
C3_011E_3IK_10F_2201803091192703_201803091201039_0001	Ocean Range Averaging Status	records.
CS OFFL SIR IOP 2 20180309T201639 20180309T210619 C001	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
00_01112_011(_101_2201003031201033_201003031210013_0001	Range Averaging Status	or more records.
CS OFFL SIR IOP 2 20180309T210619 20180309T215553 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
	Cocurr runge / Weruging Clatab	records.
	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
		or more records.
	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
	Range Averaging Status	or more records.
CS OFFL SIR IOP 2 20180309T233506 20180310T002446 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. 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180308T233623_20180309T002557_C002	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_220180309T002557_20180309T011536_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_220180309T011536_20180309T020510_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_220180309T020510_20180309T025450_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_220180309T025450_20180309T034424_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_220180309T034424_20180309T043403_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_220180309T043403_20180309T052337_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_220180309T052337_20180309T061317_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_220180309T061317_20180309T070251_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_220180309T070251_20180309T075230_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_220180309T075230_20180309T084204_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_220180309T084204_20180309T093144_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_220180309T093144_20180309T102118_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_220180309T102118_20180309T111057_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_220180309T111057_20180309T120032_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_220180309T120032_20180309T125011_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_220180309T125011_20180309T133945_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_220180309T133945_20180309T142925_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_220180309T142925_20180309T151859_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_220180309T151859_20180309T160838_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_220180309T160838_20180309T165812_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_220180309T165812_20180309T174752_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_220180309T174752_20180309T183726_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_220180309T183726_20180309T192705_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_220180309T192705_20180309T201639_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_220180309T201639_20180309T210619_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_220180309T210619_20180309T215553_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_20180309T215553_20180309T224532_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_220180309T224532_20180309T233506_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_220180309T233506_20180310T002446_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.

N	lum	ber	of	pr	od	lu	cts	w	ith	eri	ors	:
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CS_OFFL_SIR_IOP_2_201803091022557_20180309102555_0_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309102550_010000100424_0001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_201803091025450_0010 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_201803091025450_0010 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_201803091052337_001803091052337_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309105237_01803091052337_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309105237_01803091075230_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_2018030910705230_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_2018030910705230_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_2018030910705240_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_2018030910705240_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_2018030910705240_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_2018030911050514_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_2018030911050514_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180309T011538_20190309T020510_0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T025450_20180309T034424_20010 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T03424_20190309T03403_0001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T03424_20190309T03403_0001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T05337_20190309T07251_0010 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070512_0120309T07251_0001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070514_0130309T07252_0001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070514_0130309T070520_0010 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070514_0130309T005144_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T110151_20130309T102012_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T11051_20130309T102032_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T11051_20130309T103146_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T1105152_013009T110552_001 Ocean Retracking Quality Flag The Ocean Retracking Quality	CS_OFFL_SIR_IOP_220180308T233623_20180309T002557_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180309T020510_20190039T025450_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T03424_20180309T03424_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T034024_20180309T052337_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T052337_20180309T061317_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T07251_20180309T07251_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T07252_001000000000000000000000000000000000	CS_OFFL_SIR_IOP_220180309T002557_20180309T011536_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180309102459_0180309103442_0001 Ocean Retracking Quality Flag The Ocean Retracking	CS_OFFL_SIR_IOP_220180309T011536_20180309T020510_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180309T03442_20180309T043403_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T043403_20180309T062337_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T062337_20180309T062337_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T062317_20180309T070251_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070251_20180309T076230_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T0762404_20180309T070251_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T102118_2018309T111057_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T128011_20032_2010 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T142032_2018309T118051_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180309T020510_20180309T025450_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CB_OFFL_SIR_IOP_2_20180309T043403_20180309T062337_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T061317_20180309T062337_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070251_20180309T070251_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070251_20180309T070250_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T070251_20180309T064204_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T064240_20180309T102118_C0101 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T102118_20180309T11057_C0101 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T125011_20180309T1125011_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180309T16838_20180309T16838_20180309T16838_20180309T16838_20180309T16838_20180309T16838_20180309T16838_20180309T16838_20180309T168382_2011 Ocean Retracking Quality Flag	CS_OFFL_SIR_IOP_220180309T025450_20180309T034424_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180309T062337_20180309T061317_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T070251_20180309T070251_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T075230_20180309T075230_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T075230_20180309T075230_00180309T084204_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T084204_20180309T08414_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T102118_00180309T102118_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T110157_0180309T102118_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T120031_00180309T120032_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T120031_00180309T125011_C0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T16832_0180309T16812_0180309T167522_0010Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180309T16832_0180309T16852_0180309T167525_0180309T167522_0180309T167522_0011	CS_OFFL_SIR_IOP_220180309T034424_20180309T043403_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_IOP_2_20180309T224532_20180309T233506_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180309T210619_20180309T215553_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_IOP_220180309T215553_20180309T224532_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_201803097233506_20180310T002446_C001 Ocean Retracking Quality Flag	CS_OFFL_SIR_IOP_220180309T224532_20180309T233506_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_IOP_220180309T233506_20180310T002446_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.