



1. Overview

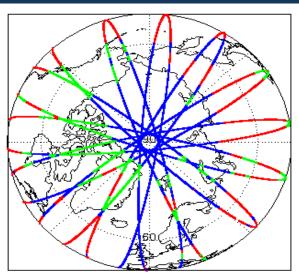
Report Production:	11-Feb-2019		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data		

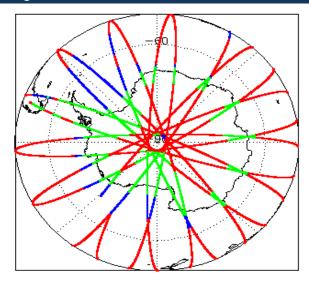
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
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

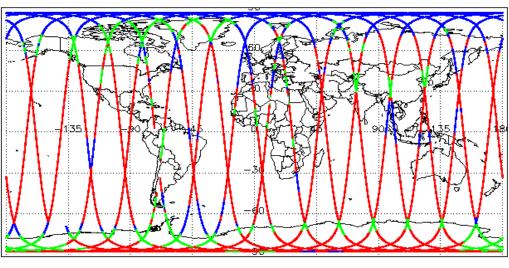
Mission / Instrument News		
05-Feb-2019	None	

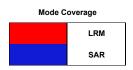
06-Feb-2019 None 07-Feb-2019 Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

0

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

(

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

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:

0

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:

19

Product	Test Failed	Description
CS_OFFL_SIR_IOPN1B_20190206T060424_20190206T060535_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T060654_20190206T060853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T074343_20190206T074609_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T100559_20190206T100739_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T101454_20190206T101741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T123630_20190206T123659_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T155157_20190206T155312_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T173304_20190206T173548_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T182829_20190206T183434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T191010_20190206T191431_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T222406_20190206T222945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190206T223724_20190206T223741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190206T011722_20190206T012058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190206T050326_20190206T050904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190206T060006_20190206T060424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190206T124900_20190206T124903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190206T140602_20190206T140903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190206T183656_20190206T183933_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190206T215008_20190206T215111_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:

0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

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).

Number of products with errors:

0

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.

Number of products with errors:

Product CS_OFFL_SIR_IOPM_2_20190206T002203_20190206T005547_C001	Test Failed Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T012903_20190206T014848_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T015018_20190206T015528_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T020044_20190206T023541_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20190206T030003 20190206T030425 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T030519_20190206T032256_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20190206T032553 20190206T032724 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_20190206T034119_20190206T035732_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T035735_20190206T040255_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T040332_20190206T041049_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T043030_20190206T044838_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T044945_20190206T050326_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190206T051140_20190206T051339_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T051454_20190206T051842_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T052023_20190206T053602_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T053803_20190206T054727_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T061519_20190206T062645_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T064242_20190206T064407_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T064951_20190206T065743_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T065931_20190206T071507_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T075305_20190206T082551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T083047_20190206T083634_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T083855_20190206T090441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T093602_20190206T094725_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T095301_20190206T100431_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T101027_20190206T101454_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T101741_20190206T104502_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T111023_20190206T114336_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T114937_20190206T115514_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T115637_20190206T120259_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20190206T123412 20190206T123542 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20190206T124903 20190206T132324 C001	Ocean Range Averaging Status	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
CS_OFFL_SIR_IOPM_2_20190206T132840_20190206T133353_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T133535_20190206T135539_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T142717_20190206T150108_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T150846_20190206T151256_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T151452_20190206T154351_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more. The Ocean Range Averaging Status Flag has been set for one or more.
CS_OFFL_SIR_IOPM_2_20190206T154407_20190206T155120_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190206T160952_20190206T161815_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T162256_20190206T162433_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T162438_20190206T164039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T164219_20190206T164738_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T165838_20190206T171116_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T171330_20190206T172517_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T172808_20190206T172937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

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

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190206T002203_20190206T005547_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_20190206T010938_20190206T011033_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_20190206T012903_20190206T014848_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_20190206T015018_20190206T015528_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T020044_20190206T023541_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_20190206T030003_20190206T030425_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_20190206T030519_20190206T032256_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_20190206T032553_20190206T032724_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_20190206T034119_20190206T035732_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_20190206T035735_20190206T040255_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_20190206T040332_20190206T041049_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_20190206T043030_20190206T044838_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_20190206T044945_20190206T050326_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_20190206T051140_20190206T051339_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T051454_20190206T051842_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T052023_20190206T053602_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_20190206T053803_20190206T054727_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_20190206T061519_20190206T062645_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_20190206T064951_20190206T065743_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T065931_20190206T071507_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_20190206T075305_20190206T082551_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_20190206T083047_20190206T083634_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T083855_20190206T090441_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 20190206T093602 20190206T094725 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T095301_20190206T100431_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T101027_20190206T101454_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T101741_20190206T104502_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190206T111023_20190206T114336_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_20190206T114937_20190206T115514_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T115637_20190206T120259_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_20190206T123412_20190206T123542_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_20190206T124903_20190206T132324_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_20190206T132840_20190206T133353_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T133535_20190206T135539_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_20190206T142717_20190206T150108_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_20190206T150605_20190206T150839_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T150846_20190206T151256_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T151452_20190206T154351_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_20190206T154407_20190206T155120_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFL SIR IOPM 2 20190206T160952 20190206T161815 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_20190206T162438_20190206T164039_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T164219_20190206T164738_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T164757_20190206T164959_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T165838_20190206T171116_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T171330_20190206T172517_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T172808_20190206T172937_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T175248_20190206T180219_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190206T180454_20190206T181954_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_20190206T182144_20190206T182649_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T182713_20190206T182829_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T185359_20190206T185707_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_20190206T185830_20190206T190219_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_20190206T194151_20190206T195903_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_20190206T200140_20190206T200605_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190206T201203_20190206T203728_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_20190206T211229_20190206T213842_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_20190206T213958_20190206T214519_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T215111_20190206T220321_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20190206T220857 20190206T222406 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190206T224743_20190206T231813_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190206T231945_20190206T232757_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20190206T123315_20190206T123412_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20190206T032256_20190206T032553_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set to one or
CS_OFFL_SIR_IOPR_2_20190206T042951_20190206T043030_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPR_2_20190206T161815_20190206T162256_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors: 59

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

6.1 P2P Product Format Check

6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

(

6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

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

0

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:

Test Failed Description CS_OFFL_SIR_IOP_2_20190206T001532_20190206T010509_c01	Number of products with errors: 20		
CS_OFFL_SIR_IOP_2_20190206T010549_20190206T015442_2001 Osean Range Averaging Satus, loe Range Averaging Satus Flags have been set for one or more records. Deem Range Averaging Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T024422_00190206T024423_C001 Osean Range Averaging Satus, loe Range Averaging Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T02423_0190206T02433_C001 Osean Range Averaging Satus, loe Range Averaging Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T02336_20190206T06250_C001 Osean Range Averaging Satus, loe Range Averaging Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T06250_20190206T06250_C001 Osean Range Averaging Satus Satus, loe Range Averaging Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T06250_20190206T06250_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T06250_20190206T06250_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T06250_20190206T06250_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T062017_20190206T06250_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T062017_20190206T062017_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T10030_20190206T115007_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T10030_20190206T115007_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T10030_20190206T115007_C001 Osean Range Averaging Satus Satus Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20190206T10030_20190206T115031_C001 Osean Range Averaging Satus Satus Flags have been set fo	Product	Test Failed	
Range Averaging Sistus or more records. CS_OFFL_SIR_IOP_2_20190206T019445_20190206T024423_C001 Ocean Range Averaging Sistus. From the Cocean Range Averaging Sistus. From the Cocean Range Averaging Sistus. From Rocean Range A	CS_OFFL_SIR_IOP_220190206T001532_20190206T010509_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOP_2_20190206T03423_20190206T03335_C001 CS_OFFL_SIR_IOP_2_20190206T03335_20190206T03335_C001 CS_OFFL_SIR_IOP_2_20190206T03335_20190206T03335_C001 CS_OFFL_SIR_IOP_2_20190206T03335_20190206T03335_C001 CS_OFFL_SIR_IOP_2_20190206T03335_20190206T06252_C001 CS_OFFL_SIR_IOP_2_20190206T03335_20190206T06252_C001 CS_OFFL_SIR_IOP_2_20190206T06252_C001006522_C001 CS_OFFL_SIR_IOP_2_20190206T06252_C001006522_C001 CS_OFFL_SIR_IOP_2_20190206T06252_C001006522_C001 CS_OFFL_SIR_IOP_2_20190206T06252_C001006522_C001 CS_OFFL_SIR_IOP_2_20190206T04233_20190206T04233_C001 CS_OFFL_SIR_IOP_2_20190206T04233_20190206T04233_C001 CS_OFFL_SIR_IOP_2_20190206T0423_20190206T0423_C001 CS_OFFL_SIR_IOP_2_20190206T0423_20190206T0452_C001 CS_OFFL_SIR_IOP_2_20190206T0423_20190206T0452_C001 CS_OFFL_SIR_IOP_2_20190206T04105_20190206T105_C001 CS_OFFL_SIR_IOP_2_20190206T04105_20190206T105_C001 CS_OFFL_SIR_IOP_2_20190206T105_20190206T105_C001 CS_OFFL_SIR_IOP_2_20190206T105_20190206T105_C001 CS_OFFL_SIR_IOP_2_20190206T105_20190206T105_C001 CS_OFFL_SIR_IOP_2_20190206T105_20190206T105_C001 CS_OFFL_SIR_IOP_2_20190206T105_20190206T105_C001 CS_OFFL_SIR_IOP_2_20190206T13234_C001 CS_OFFL	CS_OFFL_SIR_IOP_220190206T010509_20190206T015445_C001		
CS_OFFL_SIR_IOP_2_0190206T0423359_0190206T042336_C001 CS_OFFL_SIR_IOP_2_0190206T042336_02190206T051312_C001 CS_OFFL_SIR_IOP_2_0190206T060250_001 CS_OFFL_SIR_IOP_2_0190206T060250_02190206T060250_C001 CS_OFFL_SIR_IOP_2_0190206T060250_02190206T060250_C001 CS_OFFL_SIR_IOP_2_0190206T060250_02190206T060250_C001 CS_OFFL_SIR_IOP_2_0190206T060250_02190206T060250_C001 CS_OFFL_SIR_IOP_2_0190206T060250_02190206T060250_C001 CS_OFFL_SIR_IOP_2_0190206T060250_02190206T060250_C001 CS_OFFL_SIR_IOP_2_0190206T074203_20190206T08319_C001 CS_OFFL_SIR_IOP_2_0190206T074203_20190206T08319_C001 CS_OFFL_SIR_IOP_2_0190206T074203_20190206T08219_C001 CS_OFFL_SIR_IOP_2_0190206T074203_20190206T08219_C001 CS_OFFL_SIR_IOP_2_0190206T08119_0206T08219_C001 CS_OFFL_SIR_IOP_2_0190206T092117_0010 CS_OFFL_SIR_IOP_2_0190206T092117_0010 CS_OFFL_SIR_IOP_2_0190206T092117_0010 CS_OFFL_SIR_IOP_2_0190206T092117_0010 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110003_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T110007_0190206T115007_C001 CS_OFFL_SIR_IOP_2_0190206T10007_010007_0100007_00007_00007_00007_00007_000007_000007_000000	CS_OFFL_SIR_IOP_220190206T015445_20190206T024423_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOP_2_0190206T04336_0190206T051312_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range 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	CS_OFFL_SIR_IOP_220190206T024423_20190206T033359_C001		or more records.
CS_OFF_SIR_IOP_2_20190206710312_0190206706250_C001 CS_OFF_SIR_IOP_2_201902067060250_C00190206706226_C001 CS_OFF_SIR_IOP_2_201902067060250_C0190206706226_C001 CS_OFF_SIR_IOP_2_201902067060250_C01902067074203_C001 CS_OFF_SIR_IOP_2_201902067074203_C01902067074203_C001 CS_OFF_SIR_IOP_2_201902067074203_C01902067083139_C001 CS_OFF_SIR_IOP_2_201902067074203_C01902067083139_C001 CS_OFF_SIR_IOP_2_201902067074203_C01902067083139_C001 CS_OFF_SIR_IOP_2_201902067074203_C01902067092117_C001 CS_OFF_SIR_IOP_2_201902067092117_20190206710653_C001 CS_OFF_SIR_IOP_2_201902067092117_20190206710653_C001 CS_OFF_SIR_IOP_2_201902067092117_201902067110030_C001 CS_OFF_SIR_IOP_2_201902067101003_C01902067110030_C001 CS_OFF_SIR_IOP_2_2019020671010030_C001 CS_OFF_SIR_IOP_2_201902067110030_C001 CS_OFF_SIR_IOP_2_2019020671103944_C010 CS_OFF_SIR_IOP_2_2019020671103944_C010 CS_OFF_SIR_IOP_2_2019020671103944_C010 CS_OFF_SIR_IOP_2_2019020671103944_C010 CS_OFF_SIR_IOP_2_2019020671103944_C010 CS_OFF_SIR_IOP_2_2019020671103944_C010 CS_OFF_SIR_IOP_2_2019020671103941 COCAR Range Averaging Status, tock Range Averaging Status CCS_OFF_SIR_IOP_2_201902067110384_C010 COCAR Range Averaging Status, tock Range Averaging Status CCS_OFF_SIR_IOP_2_201902067110384_C010 COCAR Range Averaging Status, tock Range Averaging Status, tock Range Averaging Status CCS_OFF_SIR_IOP_2_201902067110384_C010 COCAR Range Averaging Status, tock Range Averaging Status, tock Range Averaging Status CCS_OFF_SIR_IOP_2_201902067110384_C010 COCAR Range Averaging Status, tock Range Averaging Status, toc	CS_OFFL_SIR_IOP_220190206T033359_20190206T042336_C001	Ocean Range Averaging Status	
CS_OFF_SIR_IOP20190200000000000000000000000000000000	CS_OFFL_SIR_IOP_220190206T042336_20190206T051312_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOP_2_20190206T069226_20190206T074203_C010 CS_OFFL_SIR_IOP_2_20190206T074203_20190206T074203_C010 CS_OFFL_SIR_IOP_2_20190206T074203_20190206T083139_C001 CS_OFFL_SIR_IOP_2_20190206T083139_20190206T092117_C001 CS_OFFL_SIR_IOP_2_20190206T093139_20190206T092117_C001 CS_OFFL_SIR_IOP_2_20190206T093139_20190206T092117_C001 CS_OFFL_SIR_IOP_2_20190206T093139_20190206T101053_C001 CS_OFFL_SIR_IOP_2_20190206T093139_20190206T101030_C001 CS_OFFL_SIR_IOP_2_20190206T01003_20190206T10030_C001 CS_OFFL_SIR_IOP_2_20190206T10030_20190206T10030_C001 CS_OFFL_SIR_IOP_2_20190206T10030_20190206T10500_C001 CS_OFFL_SIR_IOP_2_20190206T115007_20190206T10500_C001 CS_OFFL_SIR_IOP_2_20190206T115007_20190206T132904_C001 CS_OFFL_SIR_IOP_2_20190206T115007_20190206T132904_C001 CS_OFFL_SIR_IOP_2_20190206T132944_20190206T132904_C001 CS_OFFL_SIR_IOP_2_20190206T132944_20190206T132904_C001 CS_OFFL_SIR_IOP_2_20190206T132904_20190206T141858_C001 CS_OFFL_SIR_IOP_2_20190206T14858_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T15831_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T15831_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T15811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T15811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T165811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T165811_20190206T1647600000000000000000000000000000000000	CS_OFFL_SIR_IOP_220190206T051312_20190206T060250_C001		
Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20190206T074203_20190206T092117_C001 CS_OFFL_SIR_IOP_2_20190206T092117_20190206T10030_C001 CS_OFFL_SIR_IOP_2_20190206T101053_20190206T10030_C001 CS_OFFL_SIR_IOP_2_20190206T101053_20190206T10030_C001 CS_OFFL_SIR_IOP_2_20190206T101053_20190206T10030_C001 CS_OFFL_SIR_IOP_2_20190206T10030_C001 CS_OFFL_SIR_IOP_2_20190206T110030_C001 CS_OFFL_SIR_IOP_2_20190206T115007_C001 CS_OFFL_SIR_IOP_2_20190206T115003_C0001 CS_OFFL_SIR_IOP_2_20190206T115003_C0001 CS_OFFL_SIR_IOP_2_20190206T115003_C0001 CS_OFFL_SIR_IOP_2_20190206T150034_C0001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167477_C001 CS_OFFL_SIR_IOP_2_20190206T167474_C001 CS_OFFL_SIR_IOP_2_20190206T167474_C001 CS_OFFL_SIR_IOP_2_20190206T167474_C001 CS_OFFL_SIR_IOP_2_20190206T167474_C001 CS_OFFL_SIR_IOP_2_20190206T167474_C001 CS_OFFL_SIR_IOP_2_20190206T1675552_C001 CS_OF	CS_OFFL_SIR_IOP_220190206T060250_20190206T065226_C001	Ocean Range Averaging Status	
Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20190206T083139_20190206T092117_C001	CS_OFFL_SIR_IOP_220190206T065226_20190206T074203_C001		
Range Averaging Status CS_OFFL_SIR_IOP_2_20190206T092117_20190206T110030_C001 CS_OFFL_SIR_IOP_2_20190206T101053_20190206T110030_C001 CS_OFFL_SIR_IOP_2_20190206T110030_20190206T115007_C001 CS_OFFL_SIR_IOP_2_20190206T110030_20190206T115007_C001 CS_OFFL_SIR_IOP_2_20190206T115007_20190206T123944_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T123944_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T123944_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T132920_C001 CS_OFFL_SIR_IOP_2_20190206T13290_20190206T14858_C001 CS_OFFL_SIR_IOP_2_20190206T13290_20190206T14858_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T158511_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T158511_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T158511_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T158511_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T1673725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_C00106T406T40 CS_OFFL_SIR_IOP_2_20190206T191638_C0016T406T40 CS_OFFL_SIR_IOP_2_20190206T191638_C0016T406T406T406T406T406T406T406T406T406T40	CS_OFFL_SIR_IOP_220190206T074203_20190206T083139_C001		
CS_OFFL_SIR_IOP_2_20190206T10033_20190206T110030_C001 CS_OFFL_SIR_IOP_2_20190206T110030_20190206T110030_C001 CS_OFFL_SIR_IOP_2_20190206T110030_20190206T115007_C001 CS_OFFL_SIR_IOP_2_20190206T115007_20190206T1123944_C001 CS_OFFL_SIR_IOP_2_20190206T115007_20190206T123944_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T132920_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T132920_C001 CS_OFFL_SIR_IOP_2_20190206T132920_20190206T141858_C001 CS_OFFL_SIR_IOP_2_20190206T132920_20190206T141858_C001 CS_OFFL_SIR_IOP_2_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155831_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T158811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T156811_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T205652_C001 CS_OFFL_SIR_IOP_2_20190206T205652_20190206T205652_C001 CS_OFFL_SIR_IOP_2_20190206T2056552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T2056552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T2056552_D190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_D190206T213505_C001 CS_O	CS_OFFL_SIR_IOP_220190206T083139_20190206T092117_C001		
Range Averaging Status CS_OFFL_SIR_IOP_2_20190206T115007_20190206T123944_C001 CS_OFFL_SIR_IOP_2_20190206T115007_20190206T123944_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T132920_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T132920_C001 CS_OFFL_SIR_IOP_2_20190206T132920_20190206T141858_C001 CS_OFFL_SIR_IOP_2_20190206T132920_20190206T141858_C001 CS_OFFL_SIR_IOP_2_20190206T141858_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T1674747_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T1674747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T1673725_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T1674747_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T16773725_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T19638_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T20065552_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T2055552_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T2055552_C001 CS_OFFL_SIR_IOP_2_20190206T2055552_20190206T24528_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T24528_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T24528_C001 CS_OFFL_SIR_IOP_2_20190206T24528_2019020	CS_OFFL_SIR_IOP_220190206T092117_20190206T101053_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOP_2_20190206T115007_20190206T123944_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T132992_C001 CS_OFFL_SIR_IOP_2_20190206T123944_20190206T132920_C001 CS_OFFL_SIR_IOP_2_20190206T132920_20190206T141858_C001 CS_OFFL_SIR_IOP_2_20190206T132920_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T1573725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T23505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T23505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T23505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T205552_C001 CC_OEAR Range Averaging Status CC_OEAR	CS_OFFL_SIR_IOP_220190206T101053_20190206T110030_C001		
Range Averaging Status or more records. Ocean Range Averaging Status lce R	CS_OFFL_SIR_IOP_220190206T110030_20190206T115007_C001	Ocean Range Averaging Status	
Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20190206T132920_20190206T141858_C001 CS_OFFL_SIR_IOP_2_20190206T141858_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T173725_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T19638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T23555_20001 CS_OFFL_SIR_IOP_2_20190206T24528_20190206T23555_C001 CS_OFFL_SIR_IOP_2_201	CS_OFFL_SIR_IOP_220190206T115007_20190206T123944_C001		
Range Averaging Status CS_OFFL_SIR_IOP_2_20190206T141858_20190206T150834_C001 CS_OFFL_SIR_IOP_2_20190206T150834_20190206T150811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T165811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_D010206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T24528_D010206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T2	CS_OFFL_SIR_IOP_220190206T123944_20190206T132920_C001	0 0 0	
CS_OFFL_SIR_IOP_2_20190206T150834_20190206T155811_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T233605_20190206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20190206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20190206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_20100206T233605_2010 CS_OFFL_SIR_IOP_2_20190206T233605_2010	CS_OFFL_SIR_IOP_220190206T132920_20190206T141858_C001		or more records.
Range Averaging Status CS_OFFL_SIR_IOP_2_20190206T155811_20190206T164747_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T164747_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T2333443_C001 CS_OFFL_SIR_IOP_2_20190206T205555_20190206T2333443_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T2333443_C001 CS_OFFL_SIR_IOP_2_20190206T233565_20190206T2333443_C001 CS_OFFL_SIR_IOP_2_20190206T233565_201902	CS_OFFL_SIR_IOP_220190206T141858_20190206T150834_C001	Ocean Range Averaging Status	
Range Averaging Status Or more records. CS_OFFL_SIR_IOP_2_20190206T164747_20190206T173725_C001 CS_OFFL_SIR_IOP_2_20190206T173725_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T2332443_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T2332443_C001 CS_OFFL_SIR_IOP_2_20190206T233505_20190206T2332443_C001 CS_OFFL_SIR_IOP_2_20190206T233505_20190206T2332443_C001 CS_OFFL_SIR_IOP_2_20190206T233505_20190206T2332443_C001 CS_OFFL_SIR_IOP_2_20190206T233505_20190206T2332443_C001	CS_OFFL_SIR_IOP_220190206T150834_20190206T155811_C001		
Range Averaging Status CS_OFFL_SIR_IOP_2_20190206T182701_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T191638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T2055552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T2055552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T2055552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T2055552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T2055552_C001 CS_OFFL_SIR_IOP_2_100206T2055552_C001 CS_	CS_OFFL_SIR_IOP_220190206T155811_20190206T164747_C001		
Range Averaging Status Or more records. CS_OFFL_SIR_IOP_2_20190206T182701_20190206T191638_C001 CS_OFFL_SIR_IOP_2_20190206T182701_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T233505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T2333432_C001 CS_OFFL_SIR_IOP_2_20190206T233555_20190206T2333443_C001 CS_OFFL_SIR_IOP_2_20190206T233555_30190206T2333443_C001 CS_OFFL_SIR_IOP_2_20190206T233555_30190206T2333443_C001 CS_OFFL_SIR_IOP_2_20190206T233555_30190206T2333443_C001 CS_OFFL_SIR_IOP_2_30190206T233555_30190206T2333443_C001 CS_OFFL_SIR_IOP_2_30	CS_OFFL_SIR_IOP_220190206T164747_20190206T173725_C001	Range Averaging Status	or more records.
Range Averaging Status CS_OFFL_SIR_IOP_2_20190206T191638_20190206T200614_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_10190206T233565_20190206T2333443_C001	CS_OFFL_SIR_IOP_220190206T173725_20190206T182701_C001		
Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20190206T200614_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T205552_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T233505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T233505_20190206T2332443_C001	CS_OFFL_SIR_IOP_220190206T182701_20190206T191638_C001		or more records.
CS_OFFL_SIR_IOP_2_20190206T20552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T205552_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T214528_C001 CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_10190206T214528_20190206T2330402_C001	CS_OFFL_SIR_IOP_220190206T191638_20190206T200614_C001		
Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20190206T214528_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_2001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_2001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_C001 CS_OFFL_SIR_IOP_2_20190206T23505_20190206T223505_20190206T223505_20190206T2350	CS_OFFL_SIR_IOP_220190206T200614_20190206T205552_C001	Ocean Range Averaging Status	
Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_201902061214528_201902061223505_C001 Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_2019020612214528_201902061223505_C001 CS_OFFL_SIR_IOP_2_201902061214528_201902061223505_C001 CS_OFFL_SIR_IOP_2_201902061214528_201902061223505_C001 CS_OFFL_SIR_IOP_2_201902061214528_201902061223505_C001 CS_OFFL_SIR_IOP_2_201902061214528_201902061223505_C001 CS_OFFL_SIR_IOP_2_201902061214528_201902061223505_C001 CS_OFFL_SIR_IOP_2_201902061223505_C001 CS_OFFL_SIR_IOP_2_201902061233505_C001 CS_OFFL_SIR_IOP_2_20190206123505_C001 CS_OFFL_SIR_IOP_2_20190206123505_C001 CS_OFFL_SIR_IOP_2_20190206123505_C001 CS_OFFL_SIR_IOP_2_20190206123505_C001 CS_OFFL_SIR_IOP_2_20190206123505_C001 CS_OFFL_SIR_IOP_	CS_OFFL_SIR_IOP_220190206T205552_20190206T214528_C001		
	CS_OFFL_SIR_IOP_220190206T214528_20190206T223505_C001		
Range Averaging Status or more records.	CS_OFFL_SIR_IOP_220190206T223505_20190206T232442_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.

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.

Number of products with errors:

Number of products with errors: 28		
Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190206T001532_20190206T010509_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_220190206T010509_20190206T015445_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_220190206T015445_20190206T024423_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_220190206T024423_20190206T033359_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_220190206T033359_20190206T042336_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_220190206T042336_20190206T051312_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_220190206T051312_20190206T060250_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_220190206T060250_20190206T065226_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_220190206T065226_20190206T074203_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_220190206T074203_20190206T083139_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_220190206T083139_20190206T092117_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_220190206T092117_20190206T101053_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_220190206T101053_20190206T110030_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_220190206T110030_20190206T115007_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_220190206T115007_20190206T123944_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_220190206T123944_20190206T132920_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_220190206T132920_20190206T141858_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_220190206T141858_20190206T150834_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_220190206T150834_20190206T155811_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_220190206T155811_20190206T164747_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_220190206T164747_20190206T173725_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_220190206T173725_20190206T182701_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_220190206T182701_20190206T191638_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_220190206T191638_20190206T200614_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_220190206T200614_20190206T205552_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_220190206T205552_20190206T214528_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_220190206T214528_20190206T223505_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190206T223505_20190206T232442_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.

6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190206T001532_20190206T010509_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T010509_20190206T015445_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T015445_20190206T024423_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T024423_20190206T033359_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T033359_20190206T042336_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T042336_20190206T051312_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T051312_20190206T060250_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T060250_20190206T065226_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T074203_20190206T083139_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T083139_20190206T092117_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T092117_20190206T101053_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T101053_20190206T110030_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T110030_20190206T115007_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T115007_20190206T123944_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T123944_20190206T132920_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T132920_20190206T141858_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T141858_20190206T150834_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T150834_20190206T155811_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T155811_20190206T164747_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T164747_20190206T173725_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T173725_20190206T182701_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T182701_20190206T191638_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T191638_20190206T200614_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T200614_20190206T205552_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T205552_20190206T214528_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T214528_20190206T223505_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190206T223505_20190206T232442_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.