



1. Overview

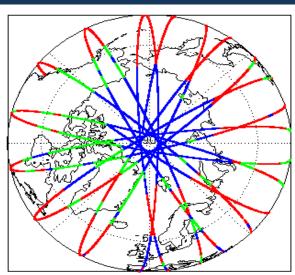
Report Production:	02-Aug-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

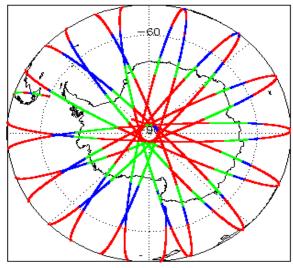
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

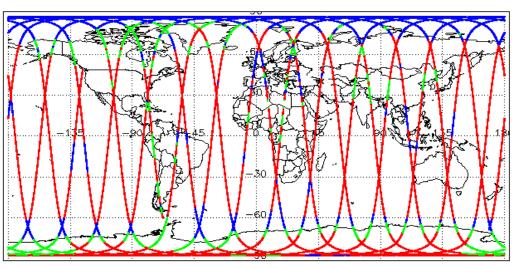
wission / instrument news		
30-Jul-2018 31-Jul-2018	None	
31-Jul-2018	None	

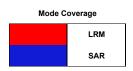
31-Jul-2018 None 01-Aug-2018 Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

0

4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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:

3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180731T043852_20180731T044600_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180731T055341_20180731T062119_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180731T194057_20180731T194622_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors: 17

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180731T020435_20180731T022024_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180731T025351_20180731T031031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180731T043418_20180731T043729_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180731T232907_20180731T235017_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T023014_20180731T023211_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T044930_20180731T045442_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T080511_20180731T080957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T100812_20180731T100949_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T131511_20180731T131728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T131934_20180731T132013_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T145351_20180731T145509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T153341_20180731T153956_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T163326_20180731T163533_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T203521_20180731T203912_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180731T212545_20180731T212639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180731T103442_20180731T103824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180731T112746_20180731T113204_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors: 0

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180731T043851_20180731T044600_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180731T055341_20180731T062119_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180731T194057_20180731T194622_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

77

		I
Product	Test Failed	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T000527_20180731T004052_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T004436_20180731T004900_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180731T004919_20180731T005313_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T005801_20180731T013139_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T013255_20180731T013544_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T014356_20180731T015836_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T020435_20180731T022024_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T022241_20180731T022759_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T023828_20180731T025137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T025351_20180731T031031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T033312_20180731T034338_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T034518_20180731T035910_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T040207_20180731T040710_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T040717_20180731T040728_C001	Ice Range Averaging Status	The loc Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T041542_20180731T041642_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T042255_20180731T042754_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T043418_20180731T043729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T043851_20180731T044600_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T051738_20180731T053744_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T054227_20180731T054626_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T054648_20180731T054858_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T055341_20180731T062119_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T065317_20180731T071712_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T072015_20180731T072540_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T072546_20180731T072912_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T073259_20180731T074340_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T074918_20180731T080510_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T082043_20180731T082553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T082938_20180731T084923_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T085205_20180731T085643_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180731T090205_20180731T090818 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180731T091010_20180731T094530 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_201807311091314_201807311094330_C001 CS_OFFL_SIR_IOPM_2_20180731T095826_20180731T095951_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T1093026_20180731T1093951_C001 CS_OFFL_SIR_IOPM_2_20180731T102030_20180731T103441_C001	Ocean Range Averaging Status Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180731T103950 20180731T104506 C001	Ice Range Averaging Status	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_20180731T105206_20180731T111317_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T111603_20180731T112746_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T113654_20180731T114138_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T115611_20180731T120209_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T120358_20180731T121421_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T122121_20180731T122406_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T123126_20180731T130742_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180731T132013_20180731T132706_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T132723_20180731T135142_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

Os. GFL_SR_JOHA_2_018073111408_01000 Os. GFL_SR_JOHA_2_018073111408_01000 Os. GFL_SR_JOHA_2_018073111408_01000 Osen Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. Os. GFL_SR_JOHA_2_0180731114000_0180731114080_0001 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Os. GFL_SR_JOHA_2_0180731115000_0180731115400_0001 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Os. GFL_SR_JOHA_2_0180731115000_018731115400_0001 Osen Range Averaging Status The Loc Range Averaging Status Flag has been set for one or more records. Os. GFL_SR_JOHA_2_0180731115000_0180731115400_0001 Osen Range Averaging Status The Loc Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_0180731115000_0180731116400_0001 Osen Range Averaging Status The Loc Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_018073111600_018001 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_018073111600_018001 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_0180731116100_018001 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_0180731116100_0180731176000 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_01807311161000_0180731170000 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_0180731116000_0180731170000 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. Osen GFL_SR_JOHA_2_0180731170000_01807311700000 Osen Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	CS_OFFL_SIR_IOPM_2_20180731T140119_20180731T140313_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
SO, SPEL_SRI_JOPM_2_201807311150029_20180731115167_C001 Ocean Range Averaging Status Flooring	CS_OFFL_SIR_IOPM_2_20180731T141038_20180731T142634_C001	Ocean Range Averaging Status	
SC_OFFL_SR_JOPM_2_20180731T150228_20180731T150107_0001 Ocean Range Averaging Status Ocean Range Averaging Status Cocan Range Averaging Status Cocan Range Averaging Status The Locan Range Averaging Status Flag has been set for one or more encords. The locan Range Averaging Status Flag has been set for one or more encords. The locan Range Averaging Status Flag has been set for one or more encords. The locan Range Averaging Status Flag has been set for one or more encords. The locan Range Averaging Status Flag has been set for one or more encords. The locan Range Averaging Status Flag has been set for one or more encords. The locan Range Averaging Status Flag has been set for one or more encords. The locan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averaging Status Flag has been set for one or more encords. The Cocan Range Averag	CS_OFFL_SIR_IOPM_2_20180731T142637_20180731T143847_C001	Ocean Range Averaging Status	
Cocen Range Averaging Status Filey DeML 2 2018/07311152398 2018/07311154230 C001 CS_OFFL_SIR_IOPML 2 2018/07311153988 2018/07311154230 C001 CS_OFFL_SIR_IOPML 2 2018/0731115398 2018/07311154230 C001 CS_OFFL_SIR_IOPML 2 2018/07311154232 2018/073115408 C001 CS_OFFL_SIR_IOPML 2 2018/07311154232 2018/0731115408 C001 CS_OFFL_SIR_IOPML 2 2018/07311154232 2018/0731115408 C001 CS_OFFL_SIR_IOPML 2 2018/0731115408 C001 CS_OFFL_SIR_IOPML 2 2018/07311172442 2018/07311172408 C001 CS_OFFL_SIR_IOPML 2 2018/0731117244 2018/07311172432 C001 CS_OFFL_SIR_IOPML 2 2018/0731119364 2018/0731117244 2018/073111244 2018/073111244 2018/073111244 2018/073111244 201	CS_OFFL_SIR_IOPM_2_20180731T145510_20180731T145902_C001	Ice Range Averaging Status	
Coes Range Averaging Status Coes Range Avera	CS_OFFL_SIR_IOPM_2_20180731T150029_20180731T151617_C001	Ocean Range Averaging Status	
CS_OFF_SIR_IOPM_2_20180731T19535_20180731T1943P1_C001 CS_OFF_SIR_IOPM_2_20180731T19535_20180731T1940P1_C010 CS_OFF_SIR_IOPM_2_20180731T196310_20180731T1940P1_C010 CS_OFF_SIR_IOPM_2_20180731T196310_20180731T1940P1_C010 CS_OFF_SIR_IOPM_2_20180731T196310_20180731T1940P1_C010 CS_OFF_SIR_IOPM_2_20180731T196310_20180731T1940P1_C010 CS_OFF_SIR_IOPM_2_20180731T196310_20180731T1940P1_C010 CS_OFF_SIR_IOPM_2_20180731T196310_20180731T196310_C010 CS_OFF_SIR_IOPM_2_20180731T196310_20180731T196310_C010 CS_OFF_SIR_IOPM_2_20180731T196310_C010 CS_OFF_SIR_IOPM_2_20180731T196310_C010 CS_OFF_SIR_IOPM_2_20180731T196310_C010 CS_OFF_SIR_IOPM_2_20180731T19011_C010 CS_OFF_SIR_IOPM_2_20180731T19011_C010 CS_OFF_SIR_IOPM_2_20180731T19011_C010 CS_OFF_SIR_IOPM_2_20180731T19011_C010 CS_OFF_SIR_IOPM_2_20180731T19011_C010 CS_OFF_SIR_IOPM_2_20180731T19012_C010 CS_OFF_SIR_IOPM_2_20180731T19012_C010 CS_OFF_SIR_IOPM_2_20180731T19012_C010 CS_OFF_SIR_IOPM_2_20180731T19012_20180731T19012_C001 CS_OFF_SIR_IOPM_2_20180731T19012_20180731T19012_C001 CS_OFF_SIR_IOPM_2_20180731T19012_20180731T19012_C001 CS_OFF_SIR_IOPM_2_20180731T19012_20180731T19012_C001 CS_OFF_SIR_IOPM_2_20180731T20012_20180731T19012_C001 CS_OFF_SIR_IOPM_2_20180731T20012_20180731T20019_C010 CS_OFF_SIR_IOPM_2_20180731T20012_20180731T20019_C010 CS_OFF_SIR_IOPM_2_20180731T20012_20180731T20019_C010 CS_OFF_SIR_IOPM_2_20180731T20019_C0180731T20019_C010 CS_OFF_SIR_IOPM_2_20180731T20019	CS_OFFL_SIR_IOPM_2_20180731T152236_20180731T153320_C001	Ocean Range Averaging Status	
CS_OFF_SIR_OPM_2_20180731T195405_20180731T194050_CO CS_OFF_SIR_OPM_2_20180731T194232_20180731T194816_CO01 CS_OFF_SIR_OPM_2_20180731T194232_20180731T194816_CO01 CS_OFF_SIR_OPM_2_20180731T1942232_20180731T194816_CO01 CS_OFF_SIR_OPM_2_20180731T1942232_20180731T194326_CO01 CS_OFF_SIR_OPM_2_20180731T19442_20180731T19432_CO01 CS_OFF_SIR_OPM_2_20180731T19442_20180731T19432_CO01 CS_OFF_SIR_OPM_2_20180731T19442_20180731T19432_CO01 CS_OFF_SIR_OPM_2_20180731T19442_20180731T19432_CO01 CS_OFF_SIR_OPM_2_20180731T19442_20180731T19432_CO01 CS_OFF_SIR_OPM_2_20180731T194057_20180731T19442_CO01 CS_OFF_SIR_OPM_2_20180731T190010_20180731T19442_CO01 CS_OFF_SIR_OPM_2_20180731T190010_20180731T19422_CO01 CS_OFF_SIR_OPM_2_20180731T190010_20180731T19422_CO01 CS_OFF_SIR_OPM_2_20180731T190012_0180731T19422_CO01 CS_OFF_SIR_OPM_2_20180731T190012_0180731T194422_CO01 CS_OFF_SIR_OPM_2_20180731T190012_0180731T194422_CO01 CS_OFF_SIR_OPM_2_20180731T194057_20180731T194422_CO01 CS_OFF_SIR_OPM_2_20180731T194057_20180731T194422_CO01 CS_OFF_SIR_OPM_2_20180731T20112_0180731T201612_CO01 CS_OFF_SIR_OPM_2_20180731T20112_0180731T201612_CO01 CS_OFF_SIR_OPM_2_20180731T20112_0180731T201612_CO01 CS_OFF_SIR_OPM_2_20180731T20147_20180731T201612_CO01 CS_OFF_SIR_OPM_2_20180731T201612_C001 CS_OFF_SIR_OPM_2_20180731T201612_C001 CS_OFF_SIR_OPM_2_20180731T200442_20180731T223040_C001 CS_OFF_SIR	CS_OFFL_SIR_IOPM_2_20180731T153956_20180731T154230_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T16204_20180731T16206_001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T17724_20180731T17632_001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T177244_20180731T17624_001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T18944_20180731T18521_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T189041_20180731T190422_0001 CS_OFFL_SIR_IOPM_2_20180731T190071_20180731T19040_0001 CS_OFFL_SIR_IOPM_2_20180731T190071_20180731T19040_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T190071_20180731T100152_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T200171_20180731T201612_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T200171_20180731T201612_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180731T201720172_0180731T201619_0001 Ocean Range Averaging Status The Ocean Range Averagin	CS_OFFL_SIR_IOPM_2_20180731T154253_20180731T154719_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201807311163108_201807311717408_C001 CS_OFFL_SIR_IOPM_2_201807311717409_20180731177408_C001 CS_OFFL_SIR_IOPM_2_2018073117742_20180731177408_C001 CS_OFFL_SIR_IOPM_2_2018073117742_201807311772832_C001 CS_OFFL_SIR_IOPM_2_2018073117742_20180731175243_C001 CS_OFFL_SIR_IOPM_2_201807311717409_20180731175243_C001 CS_OFFL_SIR_IOPM_2_201807311719344_D0180731175243_C001 CS_OFFL_SIR_IOPM_2_201807311719344_D0180731175243_C001 CS_OFFL_SIR_IOPM_2_201807311719345_D01807311793240_C001 CS_OFFL_SIR_IOPM_2_201807311719345_D01807311793240_C001 CS_OFFL_SIR_IOPM_2_20180731179345_D01807311793240_C001 CS_OFFL_SIR_IOPM_2_20180731179345_D01807311793240_C001 CS_OFFL_SIR_IOPM_2_20180731179317194622_C001 CS_OFFL_SIR_IOPM_2_20180731179317201612_C001 CS_OFFL_SIR_IOPM_2_2018073112031720316_C001 CS_OFFL_SIR_IOPM_2_2018073112031720316_C001 CS_OFFL_SIR_IOPM_2_2018073112031720316_C001 CS_OFFL_SIR_IOPM_2_2018073112031720316_C001 CS_OFFL_SIR_IOPM_2_2018073112031720316_C001 CS_OFFL_SIR_IOPM_2_2018073112031720318_C001 CS_OFFL_SIR_IOPM_2_2018073112031720318_C001 CS_OFFL_SIR_IOPM_2_201807311203172031720318_C001 CS_OFFL_SIR_IOPM_2_201807311203172031720319_C001 CS_OFFL_SIR_IOPM_2_20180731120317203172031720317203172031720317	CS_OFFL_SIR_IOPM_2_20180731T155013_20180731T160404_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201807311171742_01807311712632_C001 CS_OFFL_SIR_IOPM_2_20180731171742_01807311712632_C001 CS_OFFL_SIR_IOPM_2_20180731171742_01807311712632_C001 CS_OFFL_SIR_IOPM_2_2018073117181841_20180731715243_C001 CS_OFFL_SIR_IOPM_2_201807317181841_201807317182342_C001 CS_OFFL_SIR_IOPM_2_20180731718083_D1807317190422_C001 CS_OFFL_SIR_IOPM_2_20180731719091_201807317190422_C001 CS_OFFL_SIR_IOPM_2_20180731719091_201807317190422_C001 CS_OFFL_SIR_IOPM_2_20180731719091_201807317190422_C001 CS_OFFL_SIR_IOPM_2_20180731719091_201807317190422_C001 CS_OFFL_SIR_IOPM_2_201807317190457_201807317190422_C001 CS_OFFL_SIR_IOPM_2_201807317190457_201807317190462_C001 CS_OFFL_SIR_IOPM_2_201807317100121_2018073171201612_C001 CS_OFFL_SIR_IOPM_2_20180731720147_201807317201612_C001 CS_OFFL_SIR_IOPM_2_20180731720147_201807317201612_C001 CS_OFFL_SIR_IOPM_2_20180731720147_2018073172016012_C001 CS_OFFL_SIR_IOPM_2_20180731720147_2018073172016001 CS_OFFL_SIR_IOPM_2_20180731720147_2018073172016001 CS_OFFL_SIR_IOPM_2_20180731720147_2018073172016001 CS_OFFL_SIR_IOPM_2_201807317201401_C001 CS_OFFL_SIR_IOPM_2_201807317201401_C001 CS_OFFL_SIR_IOPM_2_201807317201401_C001 CS_OFFL_SIR_IOPM_2_201807317201401_C001 CS_OFFL_SIR_IOPM_2_201807317201401_C001 CS_OFFL_SIR_IOPM_2_20180731721201401_C001 CS_OFFL_SIR_IOPM_2_201807317223012_0180731722332_C001 CS_OFFL_SIR_IOPM_2_201807317223442_0180731722332_C001 CS_OFFL_SIR_IOPM_2_201807317223442_0180731722332_C001 CS_OFFL_SIR_IOPM_2_201807317223442_0180731722332_C001 CS_OFFL_SIR_IOPM_2_201807317223442_0180731722332_C001 CS_OFFL_SIR_IOPM_2_201807317223442_01807317230450_C001 CS_OFFL_SIR_IOPM_2_201807317223442_01807317230450_C001 CS_OFFL_SIR_IOPM_2_20180731723345_201807317230450_C001 CS_OFFL_SIR_IOPM_2_20180731723345_201807317230450_C001 CS_OFFL_SIR_IOPM_2_20180731723345_201807317230450_C001 CS_OFFL_SIR_IOPM_2_20180731723442_01807317230450_C001 CS_OFFL_SIR_IOPM_2_20180731723442_01807317230450_C001 CS_OFFL_SIR_IOPM_2_20180731723445_201807317230450_C001 CS_OFFL_SIR_IOPM_2_20	CS_OFFL_SIR_IOPM_2_20180731T164232_20180731T164918_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_JOPM_2_20180731T179244_20180731T175243_C001 CS_OFFL_SIR_JOPM_2_20180731T179244_20180731T175243_C001 CS_OFFL_SIR_JOPM_2_20180731T18941_20180731T189242_C001 CS_OFFL_SIR_JOPM_2_20180731T189585_20180731T199422_C001 CS_OFFL_SIR_JOPM_2_20180731T189585_20180731T199402_C001 CS_OFFL_SIR_JOPM_2_20180731T190910_20180731T199402_C001 CS_OFFL_SIR_JOPM_2_20180731T190910_20180731T199402_C001 CS_OFFL_SIR_JOPM_2_20180731T190912_20180731T199402_C001 CS_OFFL_SIR_JOPM_2_20180731T200121_20180731T1201812_C001 CS_OFFL_SIR_JOPM_2_20180731T200121_20180731T201812_C001 CS_OFFL_SIR_JOPM_2_20180731T200121_20180731T201819_C001 CS_OFFL_SIR_JOPM_2_20180731T201912_20180731T204501_C001 CS_OFFL_SIR_JOPM_2_20180731T204753_20180731T204501_C001 CS_OFFL_SIR_JOPM_2_20180731T204753_20180731T204501_C001 CS_OFFL_SIR_JOPM_2_20180731T204753_20180731T204501_C001 CS_OFFL_SIR_JOPM_2_20180731T204753_20180731T204501_C001 CS_OFFL_SIR_JOPM_2_20180731T220472_0180731T211041_C001 CS_OFFL_SIR_JOPM_2_20180731T221072_0180731T211041_C001 CS_OFFL_SIR_JOPM_2_20180731T221072_0180731T222307_C001 CS_OFFL_SIR_JOPM_2_20180731T2223017_02180731T2223012_C001 CS_OFFL_SIR_JOPM_2_20180731T2223017_02180731T2223012_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_20180731T2223012_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T2223012_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T2223012_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T223012_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T223012_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T223012_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T223017_0010 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T223004_00180731T230450_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T230450_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T230450_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T230450_C001 CS_OFFL_SIR_JOPM_2_20180731T223017_02180731T230450_C001 CS_OFFL_SIR_JOPM_2_20180731T230450_20180731T230450_C001 CS_OFFL_SIR_JOPM_2_20180731T230450_20180731T230450_C001 CS_OFFL_SIR_JOPM_2_20180731T230	CS_OFFL_SIR_IOPM_2_20180731T165106_20180731T171408_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_JOPM_2_201807311718941_20180731172842_0001 CS_OFFL_SIR_JOPM_2_201807311718942_2018073117190810_2018073117201121_00180731172018073117201121_001807311720118073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201120118073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_0018073117201121_001807311720112	CS_OFFL_SIR_IOPM_2_20180731T171742_20180731T172632_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T120547_20180731T204050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T204050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T205472_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T2054050_Cool CS_OFFL_SIR_IOPM_2_20180731T214050_Cool CS_OFFL_SIR_IOPM_2_20180731T223050_Cool CS_OFFL_SIR_IOPM_2_20180731T223050_Cool CS_OFFL_SIR_IOPM_2_20180731T223050_Cool CS_OFFL_SIR_IOPM_2_20180731T223050_Cool CS_OFFL_SIR_IOPM_2_20180731T223050_Cool CS_OFFL_SIR_IOPM_2_20180731T230060_Cool CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20180731T172944_20180731T175243_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T190910_20180731T193240_C001 Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180731T1901012_20180731T201612_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 Averagi	CS_OFFL_SIR_IOPM_2_20180731T181941_20180731T185321_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T1204057_20180731T19240_001 CS_OFFL_SIR_IOPM_2_20180731T200121_20180731T201612_C001 CS_OFFL_SIR_IOPM_2_20180731T200121_20180731T201612_C001 CS_OFFL_SIR_IOPM_2_20180731T201612_C001 CS_OFFL_SIR_IOPM_2_20180731T201612_C001 CS_OFFL_SIR_IOPM_2_20180731T201612_C001 CS_OFFL_SIR_IOPM_2_20180731T20312_20180731T203136_C001 CS_OFFL_SIR_IOPM_2_20180731T20312_20180731T203136_C001 CS_OFFL_SIR_IOPM_2_20180731T20312_20180731T205419_C001 CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T205419_C001 CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T211041_C001 CS_OFFL_SIR_IOPM_2_20180731T212057_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T211041_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T221104_C001 CS_OFFL_SIR_IOPM_2_20180731T21818_20180731T222302_C001 CS_OFFL_SIR_IOPM_2_20180731T22318_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T22318_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223182_20180731T223301_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T22332_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T22331_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T22331_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T233017_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T2331T223017_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T233442_D180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T233045_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T23445_D180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T23045_D180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T23045_D180731T230450_C001 CCean 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	CS_OFFL_SIR_IOPM_2_20180731T185958_20180731T190422_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180731T20121_20180731T201612_C001 CS_OFFL_SIR_IOPM_2_20180731T202147_20180731T20316_C001 CS_OFFL_SIR_IOPM_2_20180731T20312_20180731T20316_C001 CS_OFFL_SIR_IOPM_2_20180731T20312_20180731T204501_C001 CS_OFFL_SIR_IOPM_2_20180731T20312_20180731T204501_C001 CS_OFFL_SIR_IOPM_2_20180731T204753_20180731T204519_C001 CS_OFFL_SIR_IOPM_2_20180731T204753_20180731T204519_C001 CS_OFFL_SIR_IOPM_2_20180731T204753_20180731T204519_C001 CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T211041_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223188_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223188_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223317_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T223424_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T233442_0180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T233442_0180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T233442_0180731T23450_C001 CS_OFFL_SIR_IOPM_2_20180731T233450_C001 CS_OFFL_SIR_IOPM_2_20180731T234252_0180731T23016_C001 CS_OFFL_SIR_IOPM_2_20180731T234252_0180731T23016_C001 CS_OFFL_SIR_IOPM_2_20180731T23425_0180731T23016_C001 CS_OFFL_SIR_IOPM_2_20180731T23425_0180731T23016_C001 CS_OFFL_SIR_IOPM_2_20180731T23425_0180731T23016_C001 CS_OFFL_SIR_IOPM_2_20180731T234506_001 CS_OFFL_SIR_IOPM_2_20180731T234506_0010 CCCAR 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	CS_OFFL_SIR_IOPM_2_20180731T190910_20180731T193240_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T20147_20180731T20136_C001 CS_OFFL_SIR_IOPM_2_20180731T203912_20180731T204501_C001 CS_OFFL_SIR_IOPM_2_20180731T203912_20180731T204501_C001 CS_OFFL_SIR_IOPM_2_20180731T204753_20180731T204519_C001 CS_OFFL_SIR_IOPM_2_20180731T204753_20180731T205419_C001 CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T21041_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T221504_C001 CS_OFFL_SIR_IOPM_2_20180731T2121818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223424_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223424_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230406_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230406_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230406_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230406_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230406_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230406_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230460_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001	CS_OFFL_SIR_IOPM_2_20180731T194057_20180731T194622_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T203912_20180731T204501_C001 Lee Range Averaging Status 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 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_IOPM_2_20180731T200121_20180731T201612_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T204753_20180731T20419_C001 CS_OFFL_SIR_IOPM_2_20180731T20442_20180731T20411_C001 CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T211041_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T221104_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T221104_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 Ice 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. CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T222332_C001 Ice Range Averaging Status 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. CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T224434_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T23445_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T031506_20180731	CS_OFFL_SIR_IOPM_2_20180731T202147_20180731T203136_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T21041_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T21533_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T21104_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T221104_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T22332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223424_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T224434_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230452_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPM_2_20180731T031031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T031031606_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T10310210_20180731T120357_C001 CC_EAR 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	CS_OFFL_SIR_IOPM_2_20180731T203912_20180731T204501_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001 CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T221104_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T222322_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T224434_C001 CS_OFFL_SIR_IOPM_2_20180731T223044_20180731T224434_C001 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T2300450_C001 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T2300450_C001 CS_OFFL_SIR_IOPM_2_20180731T23007_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T23007_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T12010_20180731T10357_C001 COean 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 s	CS_OFFL_SIR_IOPM_2_20180731T204753_20180731T205419_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T213739_20180731T22332_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T22332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T224434_C001 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T232621_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T232621_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T102010_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T1102100_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T1102100_20180731T120357_C001 CC_EAR 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 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 Fl	CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T211041_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T22332_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_C001 CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T223424_C001 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T22005 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T230050_C001 CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T230050_C001 CS_OFFL_SIR_IOPM_2_20180731T23007_20180731T230050_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T232621_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T1031606_20180731T1031913_C001 CS_OFFL_SIR_IOPR_2_20180731T1031606_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T123265_C001 CC_COMPRANCE 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.	CS_OFFL_SIR_IOPM_2_20180731T212407_20180731T212533_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180731T230444_20180731T223443_C001 CS_OFFL_SIR_IOPM_2_20180731T230446_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CCS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CCS_OFFL_SIR_IOPR_2_20180731T120210_20180731T1203126_C001 CCS_OFFL_SIR_IOPR_2_20180731T120210_20180731T1203126_C001 CCS_OFFL_SIR_IOPR_2_20180731T120210_20180731T1203126_C001 CCS_OFFL_SIR_IOPR_2_20180731T120210_20180731T1203126_C001 CCS_OFFL_SIR_IOPR_2_201807	CS_OFFL_SIR_IOPM_2_20180731T221818_20180731T222332_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T23046_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T230450_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T232621_C001 CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CCS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CCS_OFFL_SIR_IOPR_2_20180731T12035046_20180731T120357_C001 CCS_OFFL_SIR_IOPR_2_20180731T12035046_20180731T12035046_20180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T1203126_200180731T12031	CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001 CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CCS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CCS_OFFL_SIR_IOPR_3_20180731T120210_20180731T120357_C001 CCS_OFFL_SIR_IOPR_3_20180731T120210_20180731T1203126_0001 CCS_OFFL_SIR_IOPR_3_20180731T120210_20180731T120210_20180731T120210_20180731T120210_20180731T120210_20180731T120210_20180731T120210	CS_OFFL_SIR_IOPM_2_20180731T223444_20180731T224434_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20180731T23297_20180731T23297_C001 CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T031913_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_3_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_3_20180731T1203100000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180731T230046_20180731T230450_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180731T1232907_20180731T123290 Coean Range Averaging Status CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 Ocean Range Averaging Status 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.	CS_OFFL_SIR_IOPM_2_20180731T231425_20180731T232621_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001 CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_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 records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180731T232907_20180731T235016_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T12037_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20180731T031606_20180731T031913_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20180731T120210_20180731T120357_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20180731T122859_20180731T123126_C001	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_20180731T000527_20180731T004052_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_20180731T004436_20180731T004900_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T004919_20180731T005313_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T005801_20180731T013139_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_20180731T013255_20180731T013544_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T014356_20180731T015836_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_20180731T020435_20180731T022024_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_20180731T022241_20180731T022759_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T023828_20180731T025137_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_20180731T025351_20180731T031031_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_20180731T033312_20180731T034338_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_20180731T034518_20180731T035910_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_20180731T040207_20180731T040710_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T040717_20180731T040728_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T042255_20180731T042754_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180731T043418_20180731T043729_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_20180731T043851_20180731T044600_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_20180731T051738_20180731T053744_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T054227_20180731T054626_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T054648_20180731T054858_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_20180731T055341_20180731T062119_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_20180731T065317_20180731T071712_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_20180731T073259_20180731T074340_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180731T074918_20180731T080510_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_20180731T082043_20180731T082553_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_20180731T082938_20180731T084923_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_20180731T085205_20180731T085643_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_20180731T090016_20180731T090818_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T091314_20180731T094530_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_20180731T095826_20180731T095951_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_20180731T102030_20180731T103441_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_20180731T103950_20180731T104506_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T105206_20180731T111317_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_20180731T111603_20180731T112746_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_20180731T113654_20180731T114138_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180731T115611_20180731T120209_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_20180731T120358_20180731T121421_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 20180731T123126 20180731T130742 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_20180731T132013_20180731T132706_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 20180731T132723 20180731T135142 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_20180731T140119_20180731T140313_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_20180731T141038_20180731T142634_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20180731T142637 20180731T143847 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_20180731T145510_20180731T145902_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_20180731T150029_20180731T151617_C001	SWH Averaging Status, Ocean	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_20180731T152236_20180731T153320_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_20180731T155013_20180731T160404_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_20180731T164232_20180731T164918_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_20180731T165106_20180731T171408_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T171742_20180731T172632_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_20180731T172944_20180731T175243_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_20180731T181941_20180731T185321_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180731T185712_20180731T185849_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180731T185958_20180731T190422_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records. The SWILL and Ocean Averaging Status Flags have been set for one or the swill be an extraction of the swill be a swil
CS_OFFL_SIR_IOPM_2_20180731T190910_20180731T193240_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_20180731T194057_20180731T194622_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_20180731T200121_20180731T201612_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_20180731T202147_20180731T203136_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_20180731T203912_20180731T204501_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T205442_20180731T211041_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_20180731T213739_20180731T221104_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_20180731T221818_20180731T222332_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180731T223017_20180731T223421_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_20180731T223444_20180731T224434_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_20180731T230046_20180731T230450_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_20180731T231425_20180731T232621_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_20180731T232907_20180731T235016_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_20180731T031606_20180731T031913_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_20180731T120210_20180731T120357_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_20180731T122859_20180731T123126_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:

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).

umber of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180731T040726_20180731T045700_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180731T054639_20180731T063614_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180731T190028_20180731T195002_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors: 28

Floudet	restraneu	Description
CS_OFFL_SIR_IOP_220180730T235919_20180731T004858_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_220180731T004858_20180731T013833_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_220180731T013833_20180731T022812_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_220180731T022812_20180731T031747_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_220180731T031747_20180731T040726_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_220180731T040726_20180731T045700_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T045700_20180731T054639_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_220180731T054639_20180731T063614_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T063614_20180731T072553_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_220180731T072553_20180731T081527_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_220180731T081527_20180731T090507_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_220180731T090507_20180731T095441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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CS_OFFL_SIR_IOP_2_20180731T095441_20180731T104420_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_220180731T104420_20180731T113354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T113354_20180731T122334_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T122334_20180731T131308_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T131308_20180731T140247_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_220180731T140247_20180731T145222_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_220180731T145222_20180731T154201_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_220180731T154201_20180731T163135_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_220180731T163135_20180731T172114_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_220180731T172114_20180731T181049_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_220180731T181049_20180731T190028_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T190028_20180731T195002_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_220180731T195002_20180731T203942_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_220180731T203942_20180731T212916_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_220180731T212916_20180731T221855_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T221855_20180731T230830_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180730T235919_20180731T004858_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_20180731T004858_20180731T013833_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_20180731T013833_20180731T022812_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_20180731T022812_20180731T031747_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_20180731T031747_20180731T040726_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_20180731T040726_20180731T045700_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_20180731T045700_20180731T054639_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_20180731T054639_20180731T063614_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_20180731T063614_20180731T072553_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_20180731T072553_20180731T081527_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_20180731T081527_20180731T090507_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_20180731T090507_20180731T095441_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_20180731T095441_20180731T104420_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_220180731T104420_20180731T113354_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_220180731T113354_20180731T122334_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_20180731T122334_20180731T131308_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_20180731T131308_20180731T140247_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_20180731T140247_20180731T145222_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_20180731T145222_20180731T154201_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_220180731T154201_20180731T163135_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_20180731T163135_20180731T172114_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_20180731T172114_20180731T181049_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_220180731T181049_20180731T190028_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_220180731T190028_20180731T195002_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_220180731T195002_20180731T203942_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_20180731T203942_20180731T212916_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_20180731T212916_20180731T221855_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_20180731T221855_20180731T230830_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: 27		
Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180730T235919_20180731T004858_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T004858_20180731T013833_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T013833_20180731T022812_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T022812_20180731T031747_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T031747_20180731T040726_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T040726_20180731T045700_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T045700_20180731T054639_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T054639_20180731T063614_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T063614_20180731T072553_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T072553_20180731T081527_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T081527_20180731T090507_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T090507_20180731T095441_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T095441_20180731T104420_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T104420_20180731T113354_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T113354_20180731T122334_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T122334_20180731T131308_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T131308_20180731T140247_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T140247_20180731T145222_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T145222_20180731T154201_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T154201_20180731T163135_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T163135_20180731T172114_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T172114_20180731T181049_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T190028_20180731T195002_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T195002_20180731T203942_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T203942_20180731T212916_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T212916_20180731T221855_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180731T221855_20180731T230830_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.