



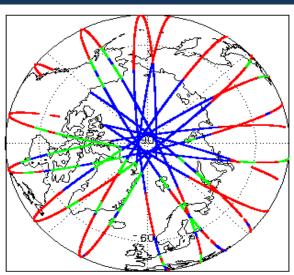
1. Overview

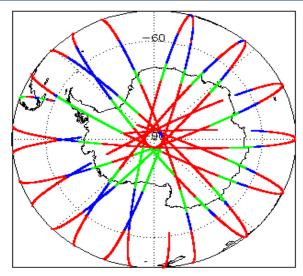
Report Production:	31-Jul-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

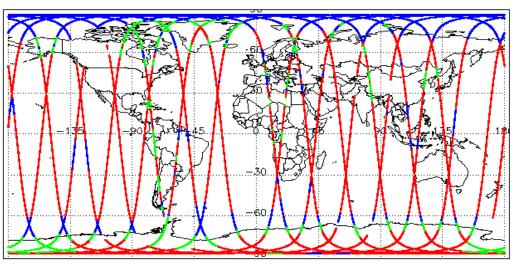
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Instru	ment News
28-Jul-2018	None
29-Jul-2018	L0 data missing on 29-Jul-2018 from 11:37:19 to 13:16:15 due to an unplanned ground segment anomaly.
30-Jul-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:

4

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180729T032554_20180729T033216_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180729T044117_20180729T044813_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180729T062155_20180729T062948_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180729T064653_20180729T065130_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:

13

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180729T025617_20180729T031300_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180729T042609_20180729T043009_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180729T043651_20180729T043954_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180729T102246_20180729T103053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180729T013810_20180729T013918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180729T031616_20180729T031832_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180729T045159_20180729T045547_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180729T101035_20180729T101223_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180729T145617_20180729T145736_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180729T163057_20180729T163136_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180729T212602_20180729T212633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180729T085910_20180729T090115_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180729T212907_20180729T213655_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

4

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180729T032554_20180729T033216_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_20180729T044117_20180729T044813_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_20180729T062155_20180729T062948_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_20180729T064653_20180729T065130_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:

80

Product CS_OFFL_SIR_IOPM_2_20180729T000754_20180729T004316_C001	Test Failed Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180729T004710_20180729T005126_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180729T005144_20180729T005540_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180729T010028 20180729T013409 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180729T014624_20180729T020102_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180729T020543_20180729T020705_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180729T020708_20180729T021402_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T021405_20180729T022248_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180729T022507_20180729T023024_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180729T024101_20180729T025403_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T025617_20180729T031300_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T033537_20180729T034603_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T034742_20180729T040136_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T040942_20180729T040953_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T041000_20180729T041114_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T042609_20180729T043009_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T043650_20180729T043954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T044117_20180729T044813_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T052004_20180729T054016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T054446_20180729T054852_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T054858_20180729T054907_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T055608_20180729T062151_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T065541_20180729T071936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T072239_20180729T072806_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T072812_20180729T073137_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T073523_20180729T074607_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T075144_20180729T080725_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T083040_20180729T085214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T085428_20180729T085909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T090239_20180729T091045_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T091538_20180729T094802_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T100052_20180729T100219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T102245_20180729T103053_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T103113_20180729T103716_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T104215_20180729T104732_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T105432_20180729T111544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T111829_20180729T113010_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T132147_20180729T132159_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T132245_20180729T132936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T132950_20180729T135408_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T140344_20180729T140538_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T140802_20180729T141029_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T141306_20180729T142906_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T142912_20180729T144120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T145736_20180729T150135_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_LOPM_2_201607297154275_201607297154585_C001 CS_OFFL_SIR_LOPM_2_201607297154582_201007297154585_C001 CS_OFFL_SIR_LOPM_2_201607297154582_201007297154585_C001 CS_OFFL_SIR_LOPM_2_201607297154582_201007297154585_C001 CS_OFFL_SIR_LOPM_2_20160729716448_201607297154585_C001 CS_OFFL_SIR_LOPM_2_20160729716448_201607297164500_C001 CS_OFFL_SIR_LOPM_2_20160729716448_201607297164500_C001 CS_OFFL_SIR_LOPM_2_2016072971764448_201607297174500_C001 CS_OFFL_SIR_LOPM_2_2016072971764448_201607297174500_C001 CS_OFFL_SIR_LOPM_2_20160729717200_20101 CS_OFFL_SIR_LOPM_2_20160729717200_20101 CS_OFFL_SIR_LOPM_2_20160729717200_20101 CS_OFFL_SIR_LOPM_2_201607297174000_2011 CS_OFFL_SIR_LOPM_2_201607297174000_2011 CS_OFFL_SIR_LOPM_2_201607297174000_2011 CS_OFFL_SIR_LOPM_2_201607297174000_2011 CS_OFFL_SIR_LOPM_2_201607297174000_2011 CS_OFFL_SIR_LOPM_2_201607297174000_2011 CS_OFFL_SIR_LOPM_2_201607297174000_2011 CS_OFFL_SIR_LOPM_2_2016072971740000_2010 CS_OFFL_SIR_LOPM_2_2016072971740000_2010000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180729T150257_20180729T151842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
co. GPFL_SIR_JOPML_2_0180729115424_20180729115456_C001 Co. GPFL_SIR_JOPML_2_01807291152256_C001 Co. GPFL_SIR_JOPML_2_01807291162256_C001 Co. GPFL_SIR_JOPML_2_01807291172211_201807291173690_C001 Co. GPFL_SIR_JOPML_2_01807291173211_201807291173690_C001 Co. GPFL_SIR_JOPML_2_01807291173211_201807291173690_C001 Co. GPFL_SIR_JOPML_2_01807291173211_20180729110646_C001 Co. GPFL_SIR_JOPML_2_01807291173211_20180729110646_C001 Co. GPFL_SIR_JOPML_2_01807291106012_01807291106646_C001 Co. GPFL_SIR_JOPML_2_01807291106012_01807291106046_C001 Co. GPFL_SIR_JOPML_2_01807291106012_01807291106046_C001	CS_OFFL_SIR_IOPM_2_20180729T152735_20180729T153545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_JOPM_2_201807291154250_201807291154250_CODI CS_OFFL_SIR_JOPM_2_201807291164048_201807291156208_CODI CS_OFFL_SIR_JOPM_2_201807291164048_201807291156208_CODI CS_OFFL_SIR_JOPM_2_201807291164048_201807291156208_CODI CS_OFFL_SIR_JOPM_2_201807291164048_201807291176508_CODI CS_OFFL_SIR_JOPM_2_201807291164048_201807291176508_CODI CS_OFFL_SIR_JOPM_2_2018072911764048_201807291176508_CODI CS_OFFL_SIR_JOPM_2_2018072911764048_201807291176508_CODI CS_OFFL_SIR_JOPM_2_2018072911764048_201807291176508_CODI CS_OFFL_SIR_JOPM_2_201807291176208_CODI CS_OFFL_SIR_JOPM_2_201807291177240_CODI CS_OFFL_SIR_JOPM_2_201807291177240_CODI CS_OFFL_SIR_JOPM_2_201807291177240_CODI CS_OFFL_SIR_JOPM_2_201807291170024_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190248_CODI CS_OFFL_SIR_JOPM_2_201807291190348_CODI CS_OFFL_SIR_JOPM_2_201807291190348_CODI CS_OFFL_SIR_JOPM_2_201807291190348_CODI CS_OFFL_SIR_JOPM_2_201807291190348_CODI CS_OFFL_SIR_JOPM_2_201807291190348_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODIBO729122036_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODIBO729122036_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODIBO729122036_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODIBO729122036_CODI CS_OFFL_SIR_JOPM_2_201807291203503_CODIBO729122036_CODI CS_OFFL_SIR_JOPM_2_20180729122036_CODI CS_OFFL_SIR_JOPM_2_20180729122036_CODI CS_OFFL_SIR_JOPM_2_201807291223036_CODIBO7291223036_CODI	CS_OFFL_SIR_IOPM_2_20180729T154224_20180729T154455_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SR_JOPM_2_20160728714545_20160728716356_C001 Osean Range Averaging Status Foods. Osean Range Averaging Status Foods. Osean Range Averaging Status Foods. The Ocean Range Averaging Status Fing has been set for one or more execute. The Ocean Range Averaging Status Fing Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Range Averaging Status Fing Range Set or one or more execute. The Ocean Ra	CS_OFFL_SIR_IOPM_2_20180729T154520_20180729T154945_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
Coen Range Averaging Status Coen Range Avera	CS_OFFL_SIR_IOPM_2_20180729T155236_20180729T160630_C001	Ocean Range Averaging Status	
Cost PET_SIR_IOPM_2 20180729172072 201807291717500 Cost Range Averaging Status Fine Docar Range Averaging Status Fine Pas Docard Range Averaging S	CS_OFFL_SIR_IOPM_2_20180729T160810_20180729T161241_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201807291732017_20180729173900_cool CS_OFFL_SIR_IOPM_2_20180729173201_201807291739504_cool CS_OFFL_SIR_IOPM_2_20180729173200_201807291739504_cool CS_OFFL_SIR_IOPM_2_20180729173002_201807291739504_cool CS_OFFL_SIR_IOPM_2_20180729173003_201807291739504_cool CS_OFFL_SIR_IOPM_2_20180729173003_201807291739504_cool CS_OFFL_SIR_IOPM_2_20180729173003_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291739501_cool CS_OFFL_SIR_IOPM_2_20180729173035_20180729173950_cool CS_OFFL_SIR_IOPM_2_20180729173035_20180729173950_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291721530_cool CS_OFFL_SIR_IOPM_2_20180729173035_201807291721392_cool CS_OFFL_SIR_IOPM_2_201807291724002_201807291721392_cool CS_OFFL_SIR_IOPM_2_201807291723002_2018072917231304_cool CS_OFFL_SIR_IOPM_2_201807291723032_201807291723382_cool CS_OFFL_SIR_IOPM_2_201807291723032_201807291723382_cool CS_OFFL_SIR_IOPM_2_201807291723032_201807291723042_cool CS_OFFL_SIR_IOPM_2_201807291723332_201807291723042_cool CS_OFFL_SIR_IOPM_2_201807291733342_201807291723042_cool CS_OFFL_SIR_IOPM_2_201807291733342_201807291723042_cool CS_OFFL_SIR_IOPM_2_201807291733342_201807291723042_cool CS_OFFL_SIR_IOPM_2_201807291733342_201807291723042_cool CS_OFFL_SIR_IOPM_2_201807291733342_201807291733342_cool CS_OFFL_SIR_IOPM_2_201807291733342_20180729133342_cool CS_OFFL_SIR_IOPM_2_201807291733342_201807291733342_cool CS_OFFL_SIR_IOPM_2_201807291733342_201807291733342_cool CS_OFFL_SIR_IOPM_2_201807291733352_201807291733342_cool CS_OFFL_SIR_IOPM_2_201807291733352_20180729133342_cool CS_OFFL_SIR_IOPM_	CS_OFFL_SIR_IOPM_2_20180729T164458_20180729T165208_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180729173211_20180729174596_C001 CS_OFFL_SIR_IOPM_2_2018072917400223_201807291740049_C001 CS_OFFL_SIR_IOPM_2_2018072917400223_201807291740049_C001 CS_OFFL_SIR_IOPM_2_2018072917400223_201807291740049_C001 CS_OFFL_SIR_IOPM_2_201807291740023_201807291740049_C001 CS_OFFL_SIR_IOPM_2_201807291740023_201807291740049_C001 CS_OFFL_SIR_IOPM_2_201807291740023_201807291740049_C001 CS_OFFL_SIR_IOPM_2_201807291740023_2018072917201837_C001 CS_OFFL_SIR_IOPM_2_201807291720413_2018072917204303_C001 CS_OFFL_SIR_IOPM_2_201807291720413_201807291720403_C001 CS_OFFL_SIR_IOPM_2_201807291720413_201807291720403_C001 CS_OFFL_SIR_IOPM_2_201807291720413_201807291720403_C001 CS_OFFL_SIR_IOPM_2_201807291720413_201807291721424_C001 CS_OFFL_SIR_IOPM_2_201807291722043_201807291721426_C001 CS_OFFL_SIR_IOPM_2_201807291722043_201807291721426_C001 CS_OFFL_SIR_IOPM_2_201807291722043_201807291721426_C001 CS_OFFL_SIR_IOPM_2_201807291722043_201807291721426_C001 CS_OFFL_SIR_IOPM_2_201807291722043_201807291721420001 CS_OFFL_SIR_IOPM_2_201807291722043_2018072917214002_C018072917204001 CS_OFFL_SIR_IOPM_2_201807291722043_2018072917214002_C018072917204001 CS_OFFL_SIR_IOPM_2_201807291722043_2018072917214002_C018072917204001 CS_OFFL_SIR_IOPM_2_2018072917220402_2018072917221286_C001 CS_OFFL_SIR_IOPM_2_2018072917220402_2018072917220442_C001 CS_OFFL_SIR_IOPM_2_2018072917220402_2018072917220402_C001 CS_OFFL_SIR_IOPM_2_2018072917220412_20180729172204242_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_2018072917230442_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_201807291723042_C001 CS_OFFL_SIR_IOPM_2_2018072917230312_2018072917230	CS_OFFL_SIR_IOPM_2_20180729T165331_20180729T171631_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180729T193030_20180729T196849_C001 CS_OFFL_SIR_IOPM_2_20180729T190223_20180729T196849_C001 CS_OFFL_SIR_IOPM_2_20180729T194229_20180729T194848_C001 CS_OFFL_SIR_IOPM_2_20180729T194329_20180729T194848_C001 CS_OFFL_SIR_IOPM_2_20180729T200355_20180729T194848_C001 CS_OFFL_SIR_IOPM_2_20180729T194329_20180729T194848_C001 CS_OFFL_SIR_IOPM_2_20180729T194329_20180729T194848_C001 CS_OFFL_SIR_IOPM_2_20180729T194329_20180729T194848_C001 CS_OFFL_SIR_IOPM_2_20180729T200355_20180729T1201837_C001 CS_OFFL_SIR_IOPM_2_20180729T200355_20180729T1201837_C001 CS_OFFL_SIR_IOPM_2_20180729T1204138_20180729T1204727_C001 CS_OFFL_SIR_IOPM_2_20180729T1204138_20180729T121524_C001 CS_OFFL_SIR_IOPM_2_20180729T12033_20180729T121526_C001 CS_OFFL_SIR_IOPM_2_20180729T12033_20180729T121526_C001 CS_OFFL_SIR_IOPM_2_20180729T12032_20180729T121236_C001 CS_OFFL_SIR_IOPM_2_20180729T12032_20180729T121236_C001 CS_OFFL_SIR_IOPM_2_20180729T12032_20180729T121236_C001 CS_OFFL_SIR_IOPM_2_20180729T12032_20180729T121236_C001 CS_OFFL_SIR_IOPM_2_20180729T12032_20180729T121236_C001 CS_OFFL_SIR_IOPM_2_20180729T12032_20180729T122384_C001 CS_OFFL_SIR_IOPM_2_20180729T12032_20180729T122384_C001 CS_OFFL_SIR_IOPM_2_20180729T122304_20180729T122384_C001 CS_OFFL_SIR_IOPM_2_20180729T122304_20180729T122384_C001 CS_OFFL_SIR_IOPM_2_20180729T122304_20180729T122384_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T122384_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T122304_2001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T123032_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T130323_20180729T123042_C001 CS_OFFL_SIR_IOPM_2_20180729T130323_20180729T123042_C001	CS_OFFL_SIR_IOPM_2_20180729T172007_20180729T172900_C001	Ice Range Averaging Status	
CS_OFFL_SIR_LOPM_2_20180729T193030_20180729T193040_CO01 CS_OFFL_SIR_LOPM_2_20180729T193010_CO01 CS_OFFL_SIR_LOPM_2_20180729T193001_CO01 CS_OFFL_SIR_LOPM_2_20180729T193001_CO01 CS_OFFL_SIR_LOPM_2_20180729T193005_20180729T193001_CO01 CS_OFFL_SIR_LOPM_2_20180729T200055_20180729T203001 CS_OFFL_SIR_LOPM_2_20180729T200055_20180729T203001 CS_OFFL_SIR_LOPM_2_20180729T200055_20180729T203001 CS_OFFL_SIR_LOPM_2_20180729T200055_20180729T203001 CS_OFFL_SIR_LOPM_2_20180729T200015_20180729T203001 CS_OFFL_SIR_LOPM_2_20180729T200015_20180729T20403_CO01 CS_OFFL_SIR_LOPM_2_20180729T20013_20180729T20403_CO01 CS_OFFL_SIR_LOPM_2_20180729T20413_20180729T204727_CO01 CS_OFFL_SIR_LOPM_2_20180729T200017_20180729T217259_CO01 CS_OFFL_SIR_LOPM_2_20180729T2120302_20180729T2273001 CS_OFFL_SIR_LOPM_2_20180729T22043_20180729T220302_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T2203002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T2203002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T2203002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T2203002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T220001 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T220002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T220002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T220002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T220002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T220002_CO01 CS_OFFL_SIR_LOPM_2_20180729T220002_20180729T20000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180729T173211_20180729T175459_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180729119139_201807291193501_C001 Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_201807291194329_201807291201837_C001 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_20180729120413_201807291204303_C001 Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180729120413_201807291204727_C001 CS_OFFL_SIR_IOPM_2_20180729120413_201807291204727_C001 CS_OFFL_SIR_IOPM_2_20180729120507_20180729121524_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_201807291212533_201807291212799_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_201807291212633_201807291212799_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_201807291212033_201807291212338_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180729122303_201807291223042_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_201807291223042_C0180729123042_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180729123313_201807291232342_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180729123313_201807291232342_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180729123313_20180729123343_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. T	CS_OFFL_SIR_IOPM_2_20180729T183001_20180729T185548_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201807291194329_201807291194840_C001 Ocean Range Averaging Status The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Flag has been set for one or more records. The Cocan Range Averaging Status Fl	CS_OFFL_SIR_IOPM_2_20180729T190223_20180729T190649_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180729T20355_20180729T203403_C01 CS_OFFL_SIR_IOPM_2_20180729T20355_20180729T203403_C01 CS_OFFL_SIR_IOPM_2_20180729T204138_20180729T203403_C01 CS_OFFL_SIR_IOPM_2_20180729T204138_20180729T203403_C01 CS_OFFL_SIR_IOPM_2_20180729T205017_20180729T204727_C001 CS_OFFL_SIR_IOPM_2_20180729T205017_20180729T204727_C001 CS_OFFL_SIR_IOPM_2_20180729T212633_20180729T211524_C001 CS_OFFL_SIR_IOPM_2_20180729T212633_20180729T212759_C001 CS_OFFL_SIR_IOPM_2_20180729T212633_20180729T221238_C001 CS_OFFL_SIR_IOPM_2_20180729T21203012_20180729T221328_C001 CS_OFFL_SIR_IOPM_2_20180729T2220302_20180729T222558_C001 CS_OFFL_SIR_IOPM_2_20180729T2220302_20180729T222558_C001 CS_OFFL_SIR_IOPM_2_20180729T223002_20180729T222580_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T223042_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T223619_C001 CS_OFFL_SIR_IOPM_2_20180729T233032_20180729T223610_C001 CS_OFFL_SIR_IOPM_2_20180729T233032_20180729T230802_C001 CS_OFFL_SIR_IOPM_2_20180729T233032_20180729T23002_C001 CS_OFFL_SIR_IOPM_2_20180729T233032_20180729T23002_C001 CS_OFFL_SIR_IOPM_2_20180729T233032_20180729T23002_C001 CS_OFFL_SIR_IOPM_2_20180729T233032_20180729T23002_C001 CS_OFFL_SIR_IOPM_2_20180729T233032_20180729T230040_C001 CS_OFFL_SIR_IOPM_2_20180729T230032_20180729T230040_C001 CS_OFFL_SIR_IOPM_2_20180729T330312_20180729T323040_C001 CS_OFFL_SIR_IOPM_2_20180729T330312_20180729T30040040_C001 CS_OFFL_SIR_IOPM_2_20180729T3003533_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T3003533_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T3003533_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T300353_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T300353_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T300353_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T30035_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T30035_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T303633_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T303633_20180729T063640_C001 CS_OFFL_SIR_IOPM_2_20180729T303633_20180729T063640_C00	CS_OFFL_SIR_IOPM_2_20180729T191139_20180729T193501_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180729720413_20180729720410 Coean Range Averaging Status Fecords. CS_OFFL_SIR_IOPM_2_20180729720413_20180729720477_CO01 CS_OFFL_SIR_IOPM_2_201807297205017_2018072972121524_CO01 CS_OFFL_SIR_IOPM_2_201807297205017_2018072972121524_CO01 CS_OFFL_SIR_IOPM_2_2018072972126333_201807297121524_CO01 CS_OFFL_SIR_IOPM_2_2018072972126333_201807297121328_CO01 CS_OFFL_SIR_IOPM_2_201807297212002_201807297121328_CO01 CS_OFFL_SIR_IOPM_2_201807297222043_201807297221328_CO01 CS_OFFL_SIR_IOPM_2_20180729723002_201807297222558_CO01 CS_OFFL_SIR_IOPM_2_20180729723002_201807297222044_CO01 CS_OFFL_SIR_IOPM_2_20180729723002_201807297222044_CO01 CS_OFFL_SIR_IOPM_2_20180729723002_201807297222044_CO01 CS_OFFL_SIR_IOPM_2_20180729723002_201807297222364_CO01 CS_OFFL_SIR_IOPM_2_2018072972300312_201807297222364_CO01 CS_OFFL_SIR_IOPM_2_201807297230312_201807297223002_CO01 CS_OFFL_SIR_IOPM_2_201807297230312_201807297230002_CO01 CS_OFFL_SIR_IOPM_2_201807297230312_201807297230002_CO01 CS_OFFL_SIR_IOPM_2_201807297230312_201807297230312_000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180729T194329_20180729T194848_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T23286_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T232804_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T233042_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T23042_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T23042_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T23042_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T23042_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T23042_C001 CS_OFFL_SIR_IOPM_2_20180729T230302_20180729T23042_C001 CS_OFFL_SIR_IOPM_2_20180729T2330302_20180729T232342_C001 CS_OFFL_SIR_IOPM_2_20180729T2330302_20180729T232342_C001 CS_OFFL_SIR_IOPM_2_20180729T2330312_20180729T232342_C001 CS_OFFL_SIR_IOPM_2_20180729T2330312_20180729T232342_C001 CS_OFFL_SIR_IOPM_2_20180729T30312_20180729T232342_C001 CS_OFFL_SIR_IOPM_2_20180729T230312_20180729T232342_C001 CS_OFFL_SIR_IOPM_2_20180729T230312_20180729T2323442_C001 CS_OFFL_SIR_IOPM_2_20180729T30312_20180729T2323442_C001 CS_OFFL_SIR_IOPM_2_20180729T30312_20180729T2323442_C001 CS_OFFL_SIR_IOPM_2_20180729T30312_20180729T2323442_C001 CS_OFFL_SIR_IOPM_2_20180729T30312_20180729T232346_C001 CS_OFFL_SIR_IOPM_2_20180729T30312_20180729T232346_C001 CS_OFFL_SIR_IOPM_2_20180729T30312_20180729T30312_00180729T3	CS_OFFL_SIR_IOPM_2_20180729T200355_20180729T201837_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPR_2_20180729T082036_20180729T082041_C001 CS_OFFL_SIR_IOPR_2_20180729T082036_20180729T082141_C001 CS_OFFL_SIR_IOPR_2_20180729T131827_20180729T131834_C001 CS_OFFL_SIR_IOPR_2_20180729T132024_20180729T132037_C001 CS_OFFL_SIR_IOPR_2_20180729T132024_20180729T132037_C001 CS_OFFL_SIR_IOPR_2_20180729T153546_20180729T153615_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.	CS_OFFL_SIR_IOPR_2_20180729T054016_20180729T054149_C001	Ocean Range Averaging Status	records.
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	CS_OFFL_SIR_IOPR_2_20180729T132024_20180729T132037_C001	Ocean Range Averaging Status	
	CS_OFFL_SIR_IOPR_2_20180729T153546_20180729T153615_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180729T000754_20180729T004316_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_20180729T004710_20180729T005126_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T005144_20180729T005540_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T010028_20180729T013409_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_20180729T014624_20180729T020102_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_20180729T020543_20180729T020705_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_20180729T021405_20180729T022248_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_20180729T022507_20180729T023024_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T024101_20180729T025403_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T025617_20180729T031300_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T033537_20180729T034603_C001 Backscatter Averaging Status more records. The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20180729T034742_20180729T040136_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180729T040432 20180729T040935 C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20180729T040942_20180729T040953_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180729T041000 20180729T041114 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T042609 20180729T043009 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T043650_20180729T043954_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T044117_20180729T044813_C001 Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR IOPM 2 20180729T052004 20180729T054016 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20180729T054446_20180729T054852_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180729T054858 20180729T054907 C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20180729T055608_20180729T062151_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T065541_20180729T071936_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180729T072239 20180729T072806 C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180729T072812 20180729T073137 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T073523_20180729T074607_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T075144 20180729T080725 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T082312_20180729T082820_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T083040_20180729T085214_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T085428 20180729T085909 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T091538_20180729T094802_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T100052 20180729T100219 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T102245 20180729T103053 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T103113 20180729T103716 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20180729T104215_20180729T104732_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T105432_20180729T111544_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T111829_20180729T113010_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T132245 20180729T132936 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T132950_20180729T135408_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status CS_OFFL_SIR_IOPM_2_20180729T140344_20180729T140538_C001 records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM_2_20180729T140802_20180729T141029_C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20180729T141306_20180729T142906_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T142912_20180729T144120_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20180729T145736_20180729T150135_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T150257_20180729T151842_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20180729T152735_20180729T153545_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180729T154224 20180729T154455 C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180729T154520 20180729T154945 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T155236_20180729T160630_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T160810_20180729T161241_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T164458_20180729T165208_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T165331 20180729T171631 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20180729T172007_20180729T172900_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T173211_20180729T175459_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T183001 20180729T185548 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T191139_20180729T193501_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T194329_20180729T194848_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180729T200355 20180729T201837 C001 **Backscatter Averaging Status** more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20180729T202413_20180729T203403_C001 Backscatter Averaging Status more records

CS_OFFL_SIR_IOPM_2_20180729T204138_20180729T204727_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T205017_20180729T211524_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_20180729T212633_20180729T212759_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_20180729T214002_20180729T221328_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_20180729T222043_20180729T222558_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180729T223002_20180729T223042_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_20180729T223242_20180729T223619_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_20180729T223709_20180729T224424_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_20180729T230312_20180729T230720_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_20180729T231634_20180729T232846_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_20180729T233132_20180729T235242_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_20180729T040936_20180729T040942_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180729T054016_20180729T054149_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_20180729T063533_20180729T063649_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_20180729T082036_20180729T082141_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_20180729T131827_20180729T131834_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_20180729T132024_20180729T132037_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_20180729T153546_20180729T153615_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: 53

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors: 0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180729T032013_20180729T040951_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180729T040951_20180729T045926_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180729T054905_20180729T063840_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180729T063840_20180729T072819_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS OFFE SIR IOP 2 201807291000145 201807291005124 C001		The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180729T005124_20180729T014059_C001		The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_220180729T014059_20180729T023038_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_220180729T023038_20180729T032013_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_220180729T032013_20180729T040951_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_220180729T040951_20180729T045926_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_220180729T045926_20180729T054905_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_220180729T054905_20180729T063840_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_220180729T063840_20180729T072819_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_220180729T072819_20180729T081753_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_220180729T081753_20180729T090732_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_220180729T090732_20180729T095707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180729T095707_20180729T104646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180729T104646_20180729T113620_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180729T131534_20180729T140513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180729T140513_20180729T145448_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_220180729T145448_20180729T154427_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_220180729T154427_20180729T163401_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180729T163401_20180729T172340_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_220180729T172340_20180729T181315_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_220180729T181315_20180729T190254_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_220180729T190254_20180729T195228_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_220180729T195228_20180729T204208_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_220180729T204208_20180729T213142_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180729T213142_20180729T222121_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180729T222121_20180729T231056_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180729T000145_20180729T005124_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_220180729T005124_20180729T014059_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_220180729T014059_20180729T023038_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_220180729T023038_20180729T032013_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_220180729T032013_20180729T040951_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_220180729T040951_20180729T045926_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_220180729T045926_20180729T054905_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_220180729T054905_20180729T063840_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_220180729T063840_20180729T072819_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_220180729T072819_20180729T081753_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_220180729T081753_20180729T090732_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_220180729T090732_20180729T095707_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_220180729T095707_20180729T104646_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_20180729T104646_20180729T113620_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_220180729T131534_20180729T140513_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_220180729T140513_20180729T145448_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_220180729T145448_20180729T154427_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_20180729T154427_20180729T163401_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_220180729T163401_20180729T172340_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_220180729T172340_20180729T181315_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_220180729T181315_20180729T190254_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_220180729T190254_20180729T195228_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_220180729T195228_20180729T204208_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_220180729T204208_20180729T213142_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_220180729T213142_20180729T222121_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_20180729T222121_20180729T231056_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.

CS_OFFL_SIR_IOP_2_20180729T001145_20180729T014059_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T014059_20180729T023038_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T023038_20180729T023038_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T023038_20180729T040951_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T040951_20180729T040951_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T040952_E0180729T040952_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T043926_E0180729T054006_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T063840_20180729T072819_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T072819_20180729T081753_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T090732_20180729T080732_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T104646_20180729T104646_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T140513_20180729T140513_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180729T145448_C0180729T145448_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for o	Product	Test Failed	Description
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