



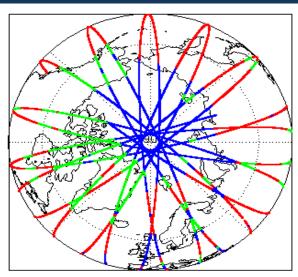
1. Overview

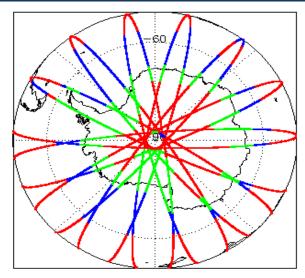
Report Production:	29-Oct-2018	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

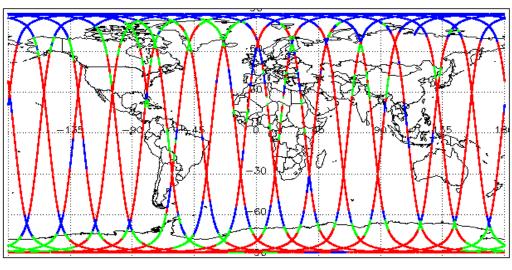
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

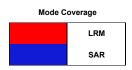
ı	Mission / Instru	ment News
	25-Oct-2018	None
	26-Oct-2018	None
	27-Oct-2018	Nothing planned

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20181026T134341_20181026T134744_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20181026T110745_20181026T111311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20181026T115053_20181026T115336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20181026T222524_20181026T223651_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20181026T232724_20181026T234019_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T003438_20181026T003951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T035031_20181026T035506_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T055323_20181026T055451_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T081305_20181026T081416_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T104355_20181026T104531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T111848_20181026T112502_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T135751_20181026T140236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T234351_20181026T234701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181026T234716_20181026T234926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T003951_20181026T004625_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T035506_20181026T040247_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T071257_20181026T072008_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T073340_20181026T073411_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T121223_20181026T121347_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T175554_20181026T180011_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T185130_20181026T190014_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181026T194900_20181026T195313_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors: 0

5.2 L2 Product Header Analysis

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

Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181026T134341_20181026T134744_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:

83

		I=
Product CS_OFFL_SIR_IOPM_2_20181026T002402_20181026T002443_C001	Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T002522_20181026T003111_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T003233_20181026T003438_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T010238_20181026T012234_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T013155_20181026T013421_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T013902_20181026T020631_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T023828_20181026T030156_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T030524_20181026T031047_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T031054_20181026T031419_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T031814_20181026T032849_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T033427_20181026T035031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T041437_20181026T043408_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T043714_20181026T044116_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T044525_20181026T045325_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T045905_20181026T053036_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T054310_20181026T054459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T060546_20181026T061923_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T062458_20181026T063013_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T063731_20181026T065827_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T070113_20181026T071257_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T072201_20181026T072638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T074116_20181026T074718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T074905_20181026T075856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T080633_20181026T080914_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T081637_20181026T085054_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T090415_20181026T090448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T090518_20181026T091217_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T091236_20181026T093649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T094626_20181026T094821_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T095030_20181026T095323_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T095551_20181026T100344_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T100347_20181026T102352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T104019_20181026T104355_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T104531_20181026T110125_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T111720_20181026T111848_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T112759_20181026T113227_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T113532_20181026T114913_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T122742_20181026T123332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T123615_20181026T123906_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T123910_20181026T125902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T130250_20181026T131138_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T131517_20181026T133753_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T140450_20181026T143822_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T144506_20181026T144929_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T145437_20181026T151808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SR_IOPM_2_20161020T164023_20161020T164030_C010 CS_OFFL_SR_IOPM_2_20161020T164049_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164049_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164049_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T174003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T174003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T174003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T174003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164003_20161020T164004_C010 CS_OFFL_SR_IOPM_2_20161020T164004_C016	CS_OFFL_SIR_IOPM_2_20181026T152931_20181026T153159_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Co.PH., SRI, OPPL 2, 2018/0026718032, 2018/0026718032, 00	CS_OFFL_SIR_IOPM_2_20181026T154623_20181026T160120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFF_LSR_OPM_2_2018102811329113291132915291352010000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20181026T160654_20181026T161603_C001	Ocean Range Averaging Status	
Over harge Averaging Status Co. OFFL, SIR, IOPM 2_201810261170312, 201810261170555, CO01 Obers Rampe Averaging Status Co. OFFL, SIR, IOPM 2_201810261170325, 201810261170555, CO01 Obers Rampe Averaging Status Co. OFFL, SIR, IOPM 2_201810261181532, 201810261170555, CO01 Obers Rampe Averaging Status Co. OFFL, SIR, IOPM 2_201810261181532, 201810261182656, CO01 Obers Rampe Averaging Status The Obers Rampe A	CS_OFFL_SIR_IOPM_2_20181026T162419_20181026T163008_C001	Ice Range Averaging Status	
Secondary Second	CS_OFFL_SIR_IOPM_2_20181026T163336_20181026T163754_C001	Ocean Range Averaging Status	
CS_OFFL_SR_IPPM_2_construction_float_colors_	CS_OFFL_SIR_IOPM_2_20181026T164030_20181026T164816_C001	Ocean Range Averaging Status	
Co. OFFL_SR_JOPM_2_20161028718032_20161028718039_C001 Co. OFFL_SR_JOPM_2_20161028718032_20161028718039_C001 Co. OFFL_SR_JOPM_2_2016102871818232_20161028718039_C001 Co. OFFL_SR_JOPM_2_2016102871818232_20161028718039_C001 Co. OFFL_SR_JOPM_2_201610287184567_20161028718030_C001 Co. OFFL_SR_JOPM_2_201610287180457_201610287181913_C001 Co. OFFL_SR_JOPM_2_201610287180410_201610287181913_C001 Co. OFFL_SR_JOPM_2_201610287180410_201610287191412_C001 Co. OFFL_SR_JOPM_2_201610287180410_201610287191412_C001 Co. OFFL_SR_JOPM_2_201610287180410_201610287191412_C001 Co. OFFL_SR_JOPM_2_201610287180410_20161028710472_C001 Co. OFFL_SR_JOPM_2_201610287180410_20161028710472_C001 Co. OFFL_SR_JOPM_2_201610287128032_20161028720450_C001 Co. OFFL_SR_JOPM_2_201610287128030_20161028721433_C001 Co. OFFL_SR_JOPM_2_201610287128030_20161028721433_C001 Co. OFFL_SR_JOPM_2_201610287128030_20161028721430_C001 Co. OFFL_SR_JOPM_2_201610287214067_201610287212206_C001 Co. OFFL_SR_JOPM_2_201610287214067_201610287212206_C001 Co. OFFL_SR_JOPM_2_2016102872214067_201610287212206_C001 Co. OFFL_SR_JOPM_2_20161028722306_201610287212306_C001 Co. OFFL_SR_JOPM_2_20161028722306_20161028721306_C001 Co. OFFL_SR_JOPM_2_20161028722306_20161028721306_C001 Co. OFFL_SR_JOPM_2_20161028722306_20161028721306_C001 Co. OFFL_SR_JOPM_2_20161028722306_20161028721306_C001 Co. OFFL_SR_JOPM_2_20161028722306_2016102872306_C001 Co. OFFL_SR_JOPM_2_2016102872306_2016102872306_C001 Co. OFFL_SR_JOPM_2_2016102872306_2016102872306_C001 Co. OFFL_SR_JOPM_2_2016102872306_2016102872306_C001 Co. OFFL_SR_JOPM_2_2016102872306_201	CS_OFFL_SIR_IOPM_2_20181026T170916_20181026T171057_C001	Ocean Range Averaging Status	
CS_OFFL_SR_JOPM_2_201810267184567_201810267184503_C001 Ocean Range Averaging Status CS_OFFL_SR_JOPM_2_201810267184507_20181026718503_C001 Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averaging Status in the Ocean Range Averaging Status The Ocean Range Averaging Status in the Ocean Range Averagi	CS_OFFL_SIR_IOPM_2_20181026T172252_20181026T175553_C001	Ocean Range Averaging Status	
Coesin Range Averaging Status Files (Dem. 2, 20181026716457, 201810267184003, 0001) Ocean Range Averaging Status Files (Dem. 2, 201810267164014, 201810267184003, 0001) Ocean Range Averaging Status Files (Dem. 2, 201810267164014, 201810267193024, 0001) Ocean Range Averaging Status Files (Dem. 2, 201810267194014, 201810267193024, 0001) Ocean Range Averaging Status Files (Dem. 2, 201810267194014, 201810267193024, 0001) Ocean Range Averaging Status Files (Dem. 2, 201810267194014, 201810267194742, 0001) Ocean Range Averaging Status Files (Dem. 2, 20181026719474, 201810267104742, 0001) Ocean Range Averaging Status Files (Dem. 2, 20181026710474, 201810267104742, 0001) Ocean Range Averaging Status Files (Dem. 2, 20181026710474, 201810267104742, 0001) Ocean Range Averaging Status Files (Dem. 2, 20181026710474, 201810267104742, 0001) Ocean Range Averaging Status Files (Dem. 2, 20181026710474, 201810267104742, 0001) Ocean Range Averaging Status Files (Dem. 2, 20181026710474, 201810267104742, 0001) Ocean Range Averaging Status Files (Dem. 2, 20181026710474, 20181026710467, 20181026	CS_OFFL_SIR_IOPM_2_20181026T180325_20181026T180839_C001	Ice Range Averaging Status	
CS_OFFL_SIR_JOPM_2_201810287194081_20181028719503_2010 Ocean Range Averaging Status Fine Ocean Range Averag	CS_OFFL_SIR_IOPM_2_20181026T181523_20181026T182945_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181026T19031_20181026T19131_C001 CS_OFFL_SIR_IOPM_2_20181026T19432_20181026T1914742_C001 CS_OFFL_SIR_IOPM_2_20181026T194332_20181026T194742_C001 CS_OFFL_SIR_IOPM_2_20181026T194332_20181026T194742_C001 CS_OFFL_SIR_IOPM_2_20181026T194332_20181026T194742_C001 CS_OFFL_SIR_IOPM_2_20181026T194332_20181026T194742_C001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T20116C_C001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T201711_C001 CS_OFFL_SIR_IOPM_2_20181026T20249_20181026T202490_C001 CS_OFFL_SIR_IOPM_2_20181026T202532_20181026T202490_C001 CS_OFFL_SIR_IOPM_2_20181026T202532_20181026T202532_C001 CS_OFFL_SIR_IOPM_2_20181026T202532_2003_20181026T212224_C001 CS_OFFL_SIR_IOPM_2_20181026T212457_20181026T212224_C001 CS_OFFL_SIR_IOPM_2_20181026T2123232_20181026T212224_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T21223252_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T2122325_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T2122325_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T2122325_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T2124657_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T2124557_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T2124557_C001 CS_OFFL_SIR_IOPM_2_20181026T2123222_20181026T2124557_C001 CS_OFFL_SIR_IOPM_2_20181026T2123224_20181026T223322_C001 CS_OFFL_SIR_IOPM_2_20181026T2123224_20181026T223322_C001 CS_OFFL_SIR_IOPM_2_20181026T2123252_2181026T223322_C001 CS_OFFL_SIR_IOPM_2_20181026T2123252_2181026T223322_C001 CS_OFFL_SIR_IOPM_2_20181026T23322_20181026T214657_C001 CS_OFFL_SIR_IOPM_2_20181026T213320_20181026T214657_C001 CS_OFFL_SIR_IOPM_2_20181026T213320_20181026T214657_C001 CS_OFFL_SIR_IOPM_2_20181026T213320_20181026T214657_C001 CS_OFFL_SIR_IOPM_2_20181026T23322_20181026T23322_C001 CS_OFFL_SIR_IOPM_2_20181026T23322_20181026T23322_C001 CS_OFFL_SIR_IOPM_2_20181026T23322_20181026T23322_C001 CS_OFFL_SIR_IOPM_2_20181026T23322_20181026T23322_C001 CS_OFFL_SIR_IOPM_2_20181026T23322_20181026T23322_C001 CS_OFFL_SIR_IOPM_2_20181026T23322_201810	CS_OFFL_SIR_IOPM_2_20181026T184557_20181026T184803_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181026T19416_20181026T194742_C001 CS_OFFL_SIR_IOPM_2_20181026T19416_20181026T194742_C001 CS_OFFL_SIR_IOPM_2_20181026T194332_20181026T201756_C001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T201711_C001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T201711_C001 CS_OFFL_SIR_IOPM_2_20181026T200258_20181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_20181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_20181026T202543_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_20181026T202543_C001 CS_OFFL_SIR_IOPM_2_20181026T202622_20181026T202545_C001 CS_OFFL_SIR_IOPM_2_20181026T202622_20181026T202545_C001 CS_OFFL_SIR_IOPM_2_20181026T202622_20181026T202651_C001 CS_OFFL_SIR_IOPM_2_20181026T204003_20181026T202651_C001 CS_OFFL_SIR_IOPM_2_20181026T220403_20181026T202651_C001 CS_OFFL_SIR_IOPM_2_20181026T220403_20181026T202651_C001 CS_OFFL_SIR_IOPM_2_20181026T220403_20181026T202651_C001 CS_OFFL_SIR_IOPM_2_20181026T220403_20181026T202652_C001 CS_OFFL_SIR_IOPM_2_20181026T220403_20181026T20352_C001 CS_OFFL_SIR_IOPM_2_20181026T212432_20181026T2125052_C001 CS_OFFL_SIR_IOPM_2_20181026T2125052_C001 CS_OFFL_SIR_IOPM_2_20181026T2125052_C001 CS_OFFL_SIR_IOPM_2_20181026T2125052_2010126T220552_C001 CS_OFFL_SIR_IOPM_2_20181026T2125054_20181026T220552_C001 CS_OFFL_SIR_IOPM_2_20181026T223524_20181026T223052_C001 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_201026T220651_C001 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101 CS_OFFL_SIR_IOPM_2_20181026T23052_20101026T23052_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20101026T23052_20101 CS_OFFL_SIR_IOPM_2_20181026T2305252_20165051006T22051001 CS_OFFL_SIR_IOPM_2_20181026T2305252_20165051006T220	CS_OFFL_SIR_IOPM_2_20181026T184810_20181026T185003_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181026T194812_20191026T194542_0001 CS_OFFL_SIR_IOPM_2_20181026T195312_20181026T201156_0001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T2011156_0001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T2011156_0001 CS_OFFL_SIR_IOPM_2_20181026T202552_0181026T202545_0001 CS_OFFL_SIR_IOPM_2_20181026T202552_0181026T202545_0001 CS_OFFL_SIR_IOPM_2_20181026T2025252_0181026T202545_0001 CS_OFFL_SIR_IOPM_2_20181026T2025252_0181026T202545_0001 CS_OFFL_SIR_IOPM_2_20181026T2025252_0181026T202545_0001 CS_OFFL_SIR_IOPM_2_20181026T2025252_0181026T202545_0001 CS_OFFL_SIR_IOPM_2_20181026T2025252_0001 CS_OFFL_SIR_IOPM_2_20181026T2025252_0001 CS_OFFL_SIR_IOPM_2_20181026T2025252_0001026T202555_0001 CS_OFFL_SIR_IOPM_2_20181026T212550_0001 CS_OFFL_SIR_IOPM_2_20181026T212550_0001 CS_OFFL_SIR_IOPM_2_20181026T222524_00181026T220555_0001 CS_OFFL_SIR_IOPM_2_20181026T212550_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T220555_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T220555_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T220555_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T220555_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T220555_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T220555_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T225522_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T225522_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T225522_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T230510_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T230510_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T230510_0001 CS_OFFL_SIR_IOPM_2_20181026T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T225522_00181026T230510_0001 CS_OFFL_SIR_IOPM_2_20181026T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T03134_000106T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T03134_000106T23056_0001 CS_OFFL_SIR_IOPM_2_20181026T	CS_OFFL_SIR_IOPM_2_20181026T190014_20181026T191131_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181026T19432_20181026T20116C001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T201115C001 CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T201111_C001 CS_OFFL_SIR_IOPM_2_20181026T2012459_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T202459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T20459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T20459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T20459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T20459_C0181026T202459_C001 CS_OFFL_SIR_IOPM_2_20181026T20459_C0181026T212246_C001 CS_OFFL_SIR_IOPM_2_20181026T21439_C0181026T214557_C001 CS_OFFL_SIR_IOPM_2_20181026T21459_C00181026T214557_C001 CS_OFFL_SIR_IOPM_2_20181026T21466_C0181026T212560_C001 CS_OFFL_SIR_IOPM_2_20181026T21466_C0181026T212565_C001 CS_OFFL_SIR_IOPM_2_20181026T21466_C0181026T212565_C001 CS_OFFL_SIR_IOPM_2_20181026T21466_C0181026T220352_C001 CS_OFFL_SIR_IOPM_2_20181026T21466_C0181026T220352_C001 CS_OFFL_SIR_IOPM_2_20181026T214567_C001806T214557_C001 CS_OFFL_SIR_IOPM_2_20181026T21456_C0181026T220352_C001 CS_OFFL_SIR_IOPM_2_20181026T21456_C0181026T220352_C001 CS_OFFL_SIR_IOPM_2_20181026T22354_U181026T22352_C001 CS_OFFL_SIR_IOPM_2_20181026T22354_U181026T22352_C001 CS_OFFL_SIR_IOPM_2_20181026T22354_C0181026T22352_C001 CS_OFFL_SIR_IOPM_2_20181026T2354_C0181026T23324_C001 CS_OFFL_SIR_IOPM_2_20181026T2354_C0181026T23324_C001 CS_OFFL_SIR_IOPM_2_20181026T2354_C0181026T23324_C001 CS_OFFL_SIR_IOPM_2_20181026T2354_C0181026T23324_C001 CS_OFFL_SIR_IOPM_2_20181026T2354_C0181026T23324_C001 CS_OFFL_SIR_IOPM_2_20181026T2334_C0181026T233401_C001 CS_OFFL_SIR_IOPM_2_20181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T03134_D181026T0	CS_OFFL_SIR_IOPM_2_20181026T191416_20181026T193524_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181026T1204T_20181026T201711_CO01 CS_OFFL_SIR_IOPM_2_20181026T202459_20181026T202459_CO01 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for	CS_OFFL_SIR_IOPM_2_20181026T194332_20181026T194742_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201810267202652_01810267202652_C001 CS_OFFL_SIR_IOPM_2_201810267202652_01810267202543_C001 CS_OFFL_SIR_IOPM_2_201810267202652_201810267202543_C001 CS_OFFL_SIR_IOPM_2_201810267202652_201810267202651_C001 CS_OFFL_SIR_IOPM_2_201810267202652_201810267202651_C001 CS_OFFL_SIR_IOPM_2_201810267202652_201810267202651_C001 CS_OFFL_SIR_IOPM_2_20181026720603_20181026721202651_C001 CS_OFFL_SIR_IOPM_2_20181026720603_20181026721202601_C001 CS_OFFL_SIR_IOPM_2_201810267212432_201810267212242_C001 CS_OFFL_SIR_IOPM_2_201810267212432_2018102672122060_C001 CS_OFFL_SIR_IOPM_2_201810267212432_201810267212506_C001 CS_OFFL_SIR_IOPM_2_201810267212352_C018102672123522_C001 CS_OFFL_SIR_IOPM_2_201810267223524_201810267223522_C001 CS_OFFL_SIR_IOPM_2_201810267223654_201810267223522_C001 CS_OFFL_SIR_IOPM_2_201810267223654_201810267223522_C001 CS_OFFL_SIR_IOPM_2_201810267223654_201810267223522_C001 CS_OFFL_SIR_IOPM_2_201810267223654_201810267223522_C001 CS_OFFL_SIR_IOPM_2_201810267233642_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_20181026723052_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_C001 CS_OFFL_SIR_IOPM_2_2018102672367222664_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181026723052_20181026723052_C001 CS_OFFL_SIR_IOPM_2_20181	CS_OFFL_SIR_IOPM_2_20181026T195313_20181026T201156_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181026T202459_20181026T202453_CO01 CS_OFFL_SIR_IOPM_2_20181026T202459_20181026T202453_CO01 CS_OFFL_SIR_IOPM_2_20181026T202623_20181026T202655_CO01 CS_OFFL_SIR_IOPM_2_20181026T202623_20181026T202655_CO01 CS_OFFL_SIR_IOPM_2_20181026T21433_CO01 CS_OFFL_SIR_IOPM_2_20181026T21435_CO01 CS_OFFL_SIR_IOPM_2_20181026T21224_CO01 CS_OFFL_SIR_IOPM_2_20181026T21224_CO01 CS_OFFL_SIR_IOPM_2_20181026T21243_20181026T212450_CO01 CS_OFFL_SIR_IOPM_2_20181026T21243_20181026T212550_CO01 CS_OFFL_SIR_IOPM_2_20181026T213329_20181026T214557_CO01 CS_OFFL_SIR_IOPM_2_20181026T213329_20181026T212552_CO01 CS_OFFL_SIR_IOPM_2_20181026T223524_20181026T223525_CO01 CS_OFFL_SIR_IOPM_2_20181026T223854_20181026T223522_CO01 CS_OFFL_SIR_IOPM_2_20181026T223854_20181026T223524_CO01 CS_OFFL_SIR_IOPM_2_20181026T223524_20181026T233109_CO01 CS_OFFL_SIR_IOPM_2_20181026T233109_20181026T233109_CO01 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233224_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233224_C001 CS_OFFL_SIR_IOPM_2_20181026T233224_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233109_C001 CS_OFFL_SIR_IOPM_2_20181026T233224_C001 CS_OFFL_SIR_IOPM_2_20181026T03134_C001 CS_OFFL_SIR_IOPM_2_20181026T03134_C001 CS_OFFL_SIR_IOPM_2_20181026T03134_C001 CS_OFFL_SIR_IOPM_2_20181026T03134_C001 CS_OFFL_SIR_IOPM_2_20181026T03450_C001 CS_OFFL_SIR_I	CS_OFFL_SIR_IOPM_2_20181026T201247_20181026T201711_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20181026T22403_20181026T21455_CO01 CS_OFFL_SIR_IOPM_2_20181026T21423_20181026T2142508_CO01 CS_OFFL_SIR_IOPM_2_20181026T212224_CO01 CS_OFFL_SIR_IOPM_2_20181026T21223_20181026T212508_CO01 CS_OFFL_SIR_IOPM_2_20181026T212332_20181026T212455_CO01 CS_OFFL_SIR_IOPM_2_20181026T212332_20181026T212352_CO01 CS_OFFL_SIR_IOPM_2_20181026T212365_CO01 CS_OFFL_SIR_IOPM_2_20181026T222524_20181026T22355_CO01 CS_OFFL_SIR_IOPM_2_20181026T222524_20181026T22355_CO01 CS_OFFL_SIR_IOPM_2_20181026T222524_20181026T22355_CO01 CS_OFFL_SIR_IOPM_2_20181026T222554_20181026T22355_CO01 CS_OFFL_SIR_IOPM_2_20181026T222554_20181026T22352_CO01 CS_OFFL_SIR_IOPM_2_20181026T223554_20181026T22352_CO01 CS_OFFL_SIR_IOPM_2_20181026T223554_20181026T22352_CO01 CS_OFFL_SIR_IOPM_2_20181026T22352_2_CO01 CS_OFFL_SIR_IOPM_2_20181026T22354_20181026T23012_CO01 CS_OFFL_SIR_IOPM_2_20181026T22354_CO01 CS_OFFL_SIR_IOPM_2_20181026T233109_20181026T232244_CO01 CS_OFFL_SIR_IOPM_2_20181026T233109_20181026T232244_CO01 CS_OFFL_SIR_IOPM_2_20181026T233724_20181026T234019_CO01 CS_OFFL_SIR_IOPM_2_20181026T03134_20181026T2365_CO01 CS_OFFL_SIR_IOPM_2_20181026T03134_20181026T034019_CO01 CS_OFFL_SIR_IOPM_2_20181026T03134_20181026T034019_CO01 CS_OFFL_SIR_IOPM_2_20181026T033134_20181026T034019_CO01 CS_OFFL_SIR_IOPM_2_20181026T034039_20181026T034019_CO01 CS_OFRL_SIR_IOPM_2_20181026T034039_20181026T034019_CO01 CS_OFRL_SIR_IOPM_2	CS_OFFL_SIR_IOPM_2_20181026T202459_20181026T202543_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20181026T225624_20181026T230120_C001 Cean Range Averaging Status CS_OFFL_SIR_IOPM_2_20181026T231019_20181026T232244_C001 Cean Range Averaging Status CS_OFFL_SIR_IOPM_2_20181026T232724_20181026T232244_C001 Cean Range Averaging Status CS_OFFL_SIR_IOPM_2_20181026T232724_20181026T234019_C001 CS_OFFL_SIR_IOPM_2_20181026T013134_20181026T03140_C001 CS_OFFL_SIR_IOPM_2_20181026T013134_20181026T013140_C001 CS_OFFL_SIR_IOPM_2_20181026T123452_20181026T123615_C001 CS_OFFL_SIR_IOPM_2_20181026T123452_20181026T123615_C001 CS_OFFL_SIR_IOPM_2_20181026T144929_20181026T145204_C001 CS_OFFL_SIR_IOPM_2_20181026T015156_20181026T01247_C001 CS_OFFL_SIR_IOPM_2_20181026T201156_20181026T201247_C001 CS_OFFL_SIR_IOPM_2_20181026T201156_20181026T201247_C001 CS_OFFL_SIR_IOPM_2_20181026T201205_C001 CS_OFFL_SIR_IOPM_2_20181026T054109_20181026T02106_C001 CS_OFFL_SIR_IOPM_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPM_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T054109_20181	CS_OFFL_SIR_IOPM_2_20181026T222524_20181026T223651_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPN_2_20181026T013134_20181026T013140_C001 CS_OFFL_SIR_IOPN_2_20181026T123452_20181026T123615_C001 CS_OFFL_SIR_IOPN_2_20181026T123452_20181026T123615_C001 CS_OFFL_SIR_IOPN_2_20181026T123452_20181026T145204_C001 CS_OFFL_SIR_IOPN_2_20181026T201156_20181026T201247_C001 CS_OFFL_SIR_IOPN_2_20181026T201156_20181026T201247_C001 CS_OFFL_SIR_IOPN_2_20181026T201156_20181026T201247_C001 CS_OFFL_SIR_IOPN_2_20181026T201247_C001 CS_OFFL_SIR_IOPN_2_20181026T0131026T201247_C001 CS_OFFL_SIR_IOPN_2_20181026T0131026T0131026T01310_C001 CS_OFFL_SIR_IOPN_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T065828_20181026T070113_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.	CS_OFFL_SIR_IOPM_2_20181026T231019_20181026T232244_C001	Ocean Range Averaging Status	records.
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CS_OFFL_SIR_IOPN_2_20181026T220923_20181026T221026_C001 CS_OFFL_SIR_IOPN_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T065828_20181026T070113_C001 CS_OFFL_SIR_IOPR_2_20181026T065828_20181026T070113_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.	CS_OFFL_SIR_IOPN_2_20181026T144929_20181026T145204_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20181026T220923_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T054109_20181026T054310_C001 CS_OFFL_SIR_IOPR_2_20181026T065828_20181026T070113_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.	CS_OFFL_SIR_IOPN_2_20181026T201156_20181026T201247_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20181026T065828_20181026T070113_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.	CS_OFFL_SIR_IOPN_2_20181026T220923_20181026T221026_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_201810261065828_201810261070113_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20181026T054109_20181026T054310_C001	Ocean Range Averaging Status	records.
The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20181026T065828_20181026T070113_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_201810261211433_201810261211535_C001	CS_OFFL_SIR_IOPR_2_20181026T211433_20181026T211535_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181026T002402_20181026T002443_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_20181026T002522_20181026T003111_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_20181026T003233_20181026T003438_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_20181026T010238_20181026T012234_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_20181026T012739_20181026T013134_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T013155_20181026T013421_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181026T013902 20181026T020631 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_20181026T023828_20181026T030156_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T030524_20181026T031047_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T031054_20181026T031419_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_20181026T031814_20181026T032849_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 20181026T033427 20181026T035031 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 20181026T041437 20181026T043408 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181026T043714_20181026T044116_C001 more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T044525_20181026T045325_C001 Ice 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_20181026T045905_20181026T053036_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_20181026T054310_20181026T054459_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_20181026T060546_20181026T061923_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T062458_20181026T063013_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_20181026T063731_20181026T065827_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 20181026T070113 20181026T071257 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_20181026T072201_20181026T072638_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_20181026T074116_20181026T074718_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 20181026T074905 20181026T075856 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T080633_20181026T080914_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_20181026T081637_20181026T085054_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 20181026T090415 20181026T090448 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_20181026T090518_20181026T091217_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 20181026T091236 20181026T093649 C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181026T094626 20181026T094821 C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T095030_20181026T095323_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_20181026T095551_20181026T100344_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_20181026T100347_20181026T102352_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T104019_20181026T104355_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 20181026T104531 20181026T110125 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_20181026T111720_20181026T111848_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T112759_20181026T113227_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 20181026T113532 20181026T114913 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_20181026T122742_20181026T123332_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_20181026T123615_20181026T123906_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 20181026T123910 20181026T125902 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T130250_20181026T131138_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 20181026T131517 20181026T133753 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 20181026T140450 20181026T143822 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T144506_20181026T144929_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181026T145437_20181026T151808_C001 Backscatter Averaging Status nore records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181026T152931 20181026T153159 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_20181026T154623_20181026T160120_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_20181026T160654_20181026T161603_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181026T162419_20181026T163008_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_20181026T163336_20181026T163754_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 20181026T164030 20181026T164816 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_20181026T170916_20181026T171057_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_20181026T172252_20181026T175553_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181026T180325 20181026T180839 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_20181026T181523_20181026T182945_C001 Backscatter Averaging Status more records.

CS_OFFL_SIR_IOPM_2_20181026T184557_20181026T184803_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_20181026T190014_20181026T191131_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_20181026T191416_20181026T193524_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_20181026T194151_20181026T194325_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T194332_20181026T194742_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T195313_20181026T201156_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_20181026T201247_20181026T201711_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_20181026T202058_20181026T202459_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_20181026T202623_20181026T202651_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_20181026T204003_20181026T211433_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_20181026T211657_20181026T212224_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T212243_20181026T212508_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T213329_20181026T214557_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_20181026T214646_20181026T220352_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_20181026T222524_20181026T223651_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_20181026T223854_20181026T225322_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_20181026T225624_20181026T230120_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T230128_20181026T230135_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181026T231019_20181026T232244_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_20181026T232724_20181026T234019_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181026T013134_20181026T013140_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181026T123452_20181026T123615_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181026T144929_20181026T145204_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181026T201156_20181026T201247_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181026T220923_20181026T221026_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_20181026T054109_20181026T054310_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_20181026T065828_20181026T070113_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_20181026T211433_20181026T211535_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). 0

70

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181026T130621_20181026T135558_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:

29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181025T235232_20181026T004209_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T004209_20181026T013146_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T013146_20181026T022123_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T022123_20181026T031059_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_220181026T031059_20181026T040036_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_220181026T040036_20181026T045013_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_220181026T045013_20181026T053950_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_220181026T053950_20181026T062927_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_220181026T062927_20181026T071903_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_220181026T071903_20181026T080840_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_220181026T080840_20181026T085817_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_220181026T085817_20181026T094754_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_220181026T094754_20181026T103731_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_220181026T103731_20181026T112707_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_220181026T112707_20181026T121644_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_220181026T121644_20181026T130621_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_220181026T130621_20181026T135558_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_220181026T135558_20181026T144534_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T144534_20181026T153511_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_220181026T153511_20181026T162448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T162448_20181026T171425_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_220181026T171425_20181026T180402_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T180402_20181026T185338_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_220181026T185338_20181026T194315_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T194315_20181026T203252_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_220181026T203252_20181026T212228_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_20181026T212228_20181026T221205_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_220181026T221205_20181026T230142_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_20181026T230142_20181026T235119_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20181025T235232_20181026T004209_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181026T004209_20181026T013146_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_220181026T013146_20181026T022123_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_220181026T022123_20181026T031059_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_220181026T031059_20181026T040036_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_220181026T040036_20181026T045013_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_220181026T045013_20181026T053950_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_20181026T053950_20181026T062927_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_220181026T062927_20181026T071903_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_220181026T071903_20181026T080840_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_220181026T080840_20181026T085817_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_220181026T085817_20181026T094754_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_220181026T094754_20181026T103731_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_220181026T103731_20181026T112707_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_220181026T112707_20181026T121644_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_20181026T121644_20181026T130621_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_220181026T130621_20181026T135558_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_220181026T135558_20181026T144534_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_220181026T144534_20181026T153511_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_220181026T153511_20181026T162448_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_220181026T162448_20181026T171425_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_220181026T171425_20181026T180402_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_220181026T180402_20181026T185338_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_220181026T185338_20181026T194315_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_220181026T194315_20181026T203252_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_220181026T203252_20181026T212228_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_20181026T212228_20181026T221205_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_220181026T221205_20181026T230142_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_220181026T230142_20181026T235119_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181025T235232_20181026T004209_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T004209_20181026T013146_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T022123_20181026T031059_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T031059_20181026T040036_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T040036_20181026T045013_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T045013_20181026T053950_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T053950_20181026T062927_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T062927_20181026T071903_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T071903_20181026T080840_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T080840_20181026T085817_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T085817_20181026T094754_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T094754_20181026T103731_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220181026T103731_20181026T112707_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T112707_20181026T121644_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T121644_20181026T130621_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T130621_20181026T135558_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T135558_20181026T144534_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T144534_20181026T153511_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T153511_20181026T162448_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T162448_20181026T171425_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T171425_20181026T180402_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T180402_20181026T185338_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T185338_20181026T194315_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T194315_20181026T203252_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T203252_20181026T212228_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T212228_20181026T221205_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T221205_20181026T230142_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181026T230142_20181026T235119_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.