



1. Overview

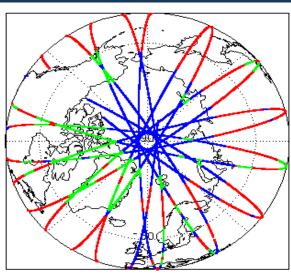
Report Production:	06-Dec-2017 CryoSat Ocean Processor	
Processor Used:		
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

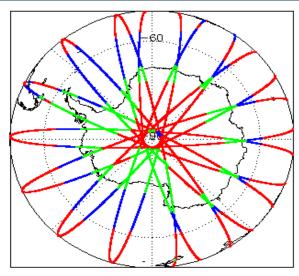
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

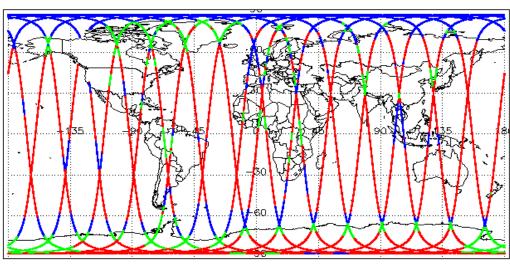
Mission /			News
26-Nov-2017		None	

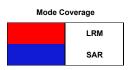
27-Nov-2017 None 28-Nov-2017 Nothing planned

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:

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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.

Number of products with errors:

61

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171127T182943_20171127T185355_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20171126T235515_20171127T000235_C001	Attitude correction missing	records The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T000702_20171127T001426_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T004150_20171127T004613_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171127T013524 20171127T013628 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T013659_20171127T014130_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T014130_20171127T014242_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171127T020638 20171127T020653 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T021939_20171127T022617_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171127T023720 20171127T023812 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T034354_20171127T034517_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T043348_20171127T043736_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171127T043736 20171127T044032 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T044823_20171127T044840_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171127T045450 20171127T050055 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T050538_20171127T050551_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T050628_20171127T050709_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_201711271050028_201711271050709_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_201711271053542_201711271053542_C001 CS_OFFL_SIR_IOPR1B_20171127T063457_20171127T063554_C001	Attitude correction missing Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_201711271063437_201711271063354_C001 CS_OFFL_SIR_IOPR1B_20171127T063617_20171127T064026_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171127T003017_20171127T004020_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_201711271072040_201711271072311_C001 CS_OFFL_SIR_IOPRIB_201711271080520_201711271080554_C001	Attitude correction missing	The attitude has not been corrected
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CS_OFFL_SIR_IOPR1B_20171127T091349_20171127T091602_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T094334_20171127T094405_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T094739_20171127T094839_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T095002_20171127T095039_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T095238_20171127T095324_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T100320_20171127T100335_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T103844_20171127T104235_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T112446_20171127T112549_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T112549_20171127T113040_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T113158_20171127T113334_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T131955_20171127T132113_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T135707_20171127T135758_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T145257_20171127T145817_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T145847_20171127T150003_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T153617_20171127T153709_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T154400_20171127T154406_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T154819_20171127T155027_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T155701_20171127T155805_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T164412_20171127T164422_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T165229_20171127T165704_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T165707_20171127T170034_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T172301_20171127T172303_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T175614_20171127T175851_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T181747_20171127T181825_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T185356_20171127T185559_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T190736_20171127T190952_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T192034_20171127T192606_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T195615_20171127T195842_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T204638_20171127T204738_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T205950_20171127T210157_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T212424_20171127T212446_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T212453_20171127T212503_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_IOPR1B_20171127T213816_20171127T213941_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T214321_20171127T214508_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T220942_20171127T221507_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T225004_20171127T225250_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T231418_20171127T231432_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T232335_20171127T232524_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171127T235043_20171127T235443_C001	Attitude correction missing	The attitude has not been corrected

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:

25

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171127T032718_20171127T034354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171127T162413_20171127T162631_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T005140_20171127T005656_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T014243_20171127T014644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T054334_20171127T054520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T095325_20171127T095414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T130918_20171127T131142_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T144640_20171127T145058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T162724_20171127T163150_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171127T231318_20171127T231418_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T000702_20171127T001426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T004150_20171127T004613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T025314_20171127T025517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T040008_20171127T040018_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T063617_20171127T064026_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T085834_20171127T090257_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T131955_20171127T132113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T140908_20171127T141558_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T154819_20171127T155027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T181012_20171127T181519_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T181557_20171127T181743_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T204638_20171127T204738_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T204738_20171127T205027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T214607_20171127T214748_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171127T235043_20171127T235443_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:

0

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171127T182943_20171127T185355_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.

CS OFFL SIR IOPM 2 20171127T161012 20171127T162249 C001

Number of products with errors: Product Description The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T002333_20171127T004150_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T005906_20171127T013301_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T014723_20171127T020637_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T020653_20171127T021939_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T022851_20171127T023047_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T023813_20171127T025314_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T025517_20171127T030505_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T032246_20171127T032441_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T032718_20171127T034354_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T040018_20171127T040116_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T040719 20171127T041009 C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T041022 20171127T041452 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T041736_20171127T043141_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T043321 20171127T043348 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T050709_20171127T050848_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T051844 20171127T054147 C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T054521 20171127T055355 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T055720_20171127T062143_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM_2_20171127T065318_20171127T070705_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T071004_20171127T072040_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T072734_20171127T073152_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T073642_20171127T080244_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T081236_20171127T081346_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T082823_20171127T084348_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T084919_20171127T085834_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T090646_20171127T091232_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T091602_20171127T092014_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T095138 20171127T095238 C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T100534_20171127T103844_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T104551 20171127T105103 C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T105634_20171127T111217_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T113041_20171127T113158_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T114317_20171127T121247_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T121258_20171127T121749_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T122401_20171127T122550_C001 Ice Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T123506_20171127T130755_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T132300_20171127T134244_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T134246_20171127T135022_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T135024 20171127T135707 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T135926_20171127T140449_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T141558_20171127T142825_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T142947 20171127T144640 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T150817_20171127T151922_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T152125 20171127T153617 C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T153852 20171127T154347 C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T154424_20171127T154543_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T155231 20171127T155701 C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more

Ocean Range Averaging Status

records

CS_OFFL_SIR_IOPM_2_20171127T19234_2017127T195355_001 Ocean Range Averaging Status The Locan Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20171127T182943_20171127T195355_001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20171127T192384_20171127T190218_20171127T190018_20171127T	CS_OFFL_SIR_IOPM_2_20171127T170035_20171127T171459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_OPM_2_20171127113243_2017112710304_C001 CS_OFFL_SIR_OPM_2_20171127112710362_071712710001 CS_OFFL_SIR_OPM_2_201711271100001_C001 CS_OFFL_SIR_OPM_2_201711271100001_C001 CS_OFFL_SIR_OPM_2_201711271100001_C001 CS_OFFL_SIR_OPM_2_201711271100001_C001 CS_OFFL_SIR_OPM_2_201711271100000_C001 CS_OFFL_SIR_OPM_2_201711271100000_C001 CS_OFFL_SIR_OPM_2_201711271100000_C001 CS_OFFL_SIR_OPM_2_201711271100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_20171127100000_C001 CS_OFFL_SIR_OPM_2_2017112710000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20171127T171827_20171127T172316_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171127T196362_20171127T190316_C001 CS_OFFL_SIR_IOPM_2_20171127T190362_20171127T190304_C001 CS_OFFL_SIR_IOPM_2_20171127T190362_20171127T192034_C001 CS_OFFL_SIR_IOPM_2_20171127T1920662_20171127T192034_C001 CS_OFFL_SIR_IOPM_2_20171127T1920662_20171127T1920304_C001 CS_OFFL_SIR_IOPM_2_20171127T192064_20171127T193000_C001 CS_OFFL_SIR_IOPM_2_20171127T203040_20171127T193000_C001 CS_OFFL_SIR_IOPM_2_20171127T203040_20171127T204128_C001 CS_OFFL_SIR_IOPM_2_20171127T205049_20171127T204504_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T204504_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205092_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T205092_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T205092_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T2050502_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T2050502_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T2050502_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T2050502_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T2050502_20171127T2005049_C001 CS_OFFL_SIR_IOPM_2_20171127T2050502_20171127T2050049_C001 CS_OFFL_SIR_IOPM_2_20171127T2050502_20171127T2050049_C001 CS_OFFL_SIR_IOPM_2_20171127T20505050_C001 CS_OFFL_SIR_IOPM_2_20171127T20505050_C001 CS_OFFL_SIR_IOPM_2_20171127T20505050_C001 CS_OFFL_SIR_IOPM_2_20171127T20505050_C001 CS_OFFL_SIR_IOPM_2_20171127T20505050_C001 CS_OFFL_SIR_IOPM_2_20171127T104550_20171127T0305050_C001 CS_OFFL_SIR_IOPM_2_20171127T104550_20171127T0305050_C001 CS_OFFL_SIR_IOPM_2_20171127T104550_20171127T0305050_C001 CS_OFFL_SIR_IOPM_2_20171127T104550_20171127T0305050_C001 CS_OFFL_SIR_IOPM_2_20171127T104550_20171127T0305050_C001 CS_OFFL_SIR_IOPM_2_20171127T104550_20171127T1045500005001 CS_OFFL_SIR_IOPM_2_20171127T104550_20171127T1045500005001 CS_OFFL_SIR_IOPM_2_20171127T1045500	CS_OFFL_SIR_IOPM_2_20171127T173022_20171127T175613_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T190386_20171127T190361_CO01 CS_OFFL_SIR_IOPM_2_20171127T190386_20171127T190801_CO01 CS_OFFL_SIR_IOPM_2_20171127T190802_20171127T190802_CO01 CS_OFFL_SIR_IOPM_2_20171127T192806_20171127T193800_CO01 CS_OFFL_SIR_IOPM_2_20171127T192806_20171127T193800_CO01 CS_OFFL_SIR_IOPM_2_20171127T203840_20171127T203344_CO01 CS_OFFL_SIR_IOPM_2_20171127T203840_20171127T203840_CO01 CS_OFFL_SIR_IOPM_2_20171127T203840_20171127T204134_CO01 CS_OFFL_SIR_IOPM_2_20171127T204134_20171127T204134_CO01 CS_OFFL_SIR_IOPM_2_20171127T204134_20171127T204504_CO01 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205949_CO01 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205949_CO01 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T212304_CO01 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T212304_CO01 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T212304_CO01 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T212304_CO01 CS_OFFL_SIR_IOPM_2_20171127T2205028_20171127T213816_CO01 CS_OFFL_SIR_IOPM_2_20171127T2205028_20171127T213816_CO01 CS_OFFL_SIR_IOPM_2_20171127T2205028_20171127T2020504_CO01 CS_OFFL_SIR_IOPM_2_20171127T2205028_20171127T2200504_CO01 CS_OFFL_SIR_IOPM_2_20171127T2205028_20171127T220504_CO01 CS_OFFL_SIR_IOPM_2_20171127T2225050_20171127T2250504_CO01 CS_OFFL_SIR_IOPM_2_20171127T2250502_0171127T230505_CO01 CS_OFFL_SIR_IOPM_2_20171127T2250502_0171127T230505_CO01 CS_OFFL_SIR_IOPM_2_20171127T235052_0171127T230505_CO01 CS_OFFL_SIR_IOPM_2_20171127T235052_0171127T230505_CO01 CS_OFFL_SIR_IOPM_2_20171127T235052_0171127T230505_CO01 CS_OFFL_SIR_IOPM_2_20171127T235052_0171127T104551_CO01 CS_OFFL_SIR_IOPM_2_20171127T235052_0171127T104551_CO01 CS_OFFL_SIR_IOPM_2_20171127T2350506_20171127T104555_CO01 CS_OFFL_SIR_IOPM_2_20171127T2350506_20171127T104555_CO01 CS_OFFL_SIR_IOPM_2_20171127T2350506_20171127T104555_CO01 CS_OFFL_SIR_IOPM_2_20171127T2350506_20171127T104555_CO01 CS_OFFL_SIR_IOPM_2_20171127T2350506_20171127T1035564_CO01 CS_OFFL_SIR_IOPM_2_20171127T104355_CO01 CS_OFFL_SIR_IOPM_2_20171127T104355_CO01 CS_OFFL_SIR_IOPM	CS_OFFL_SIR_IOPM_2_20171127T182943_20171127T185355_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T190502_20171127T190500_C001 CS_OFFL_SIR_IOPM_2_20171127T1920602_20171127T192000_C001 CS_OFFL_SIR_IOPM_2_20171127T200721_20171127T200304_C001 CS_OFFL_SIR_IOPM_2_20171127T200721_20171127T200304_C001 CS_OFFL_SIR_IOPM_2_20171127T200602_20171127T200504_C001 CS_OFFL_SIR_IOPM_2_20171127T200602_20171127T200504_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T203640_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T203640_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T203640_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T203640_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T203640_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T213040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T213040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T2120410_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T2120410_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205041_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T209401_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T20941_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T20041_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T20041_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T20041_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T20041_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T20041_C001 CS_OFFL_SIR_IOPM_2_20171127T20040_C001 CS_OFFL_SIR_IOPM_2_20171127T2005000_C001 CS_OFF	CS_OFFL_SIR_IOPM_2_20171127T185825_20171127T190215_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T193052_20171127T193054_C001 CS_OFFL_SIR_IOPM_2_20171127T193060_20171127T20304_C001 CS_OFFL_SIR_IOPM_2_20171127T203040_20171127T20304_C001 CS_OFFL_SIR_IOPM_2_20171127T203040_20171127T20304_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205040_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T21304_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T21304_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T21304_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T220411_C001 CS_OFFL_SIR_IOPM_2_20171127T20759_20171127T22051_C001 CS_OFFL_SIR_IOPM_2_20171127T220750_20171127T22051_C001 CS_OFFL_SIR_IOPM_2_20171127T220901_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T220504_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230405_C001 CS_OFFL_SIR_IOPM_2_20171127T230402_20171127T230405_C001 CS_OFFL_SIR_IOPM_2_20171127T230402_20171127T230405_C001 CS_OFFL_SIR_IOPM_2_20171127T230402_20171127T230403_C001 CS_OFFL_SIR_IOPM_2_20171127T2305058_20171127T040551_C001 CS_OFFL_SIR_IOPM_2_20171127T2050565_C001 CS_OFFL_SIR_IOPM_2_20171127T045450_20171127T050555_C001 CS_OFFL_SIR_IOPM_2_20171127T0404035_20171127T050555_C001 CS_OFFL_SIR_IOPM_2_20171127T0404035_20171127T050555_C001 CS_OFFL_SIR_IOPM_2_20171127T0404035_20171127T050555_C001 CCean 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	CS_OFFL_SIR_IOPM_2_20171127T190236_20171127T190601_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T203640_20171127T203304_C001 CS_OFFL_SIR_IOPM_2_20171127T203640_20171127T203304_C001 CS_OFFL_SIR_IOPM_2_20171127T203640_20171127T204504_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205082_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205049_C001 CS_OFFL_SIR_IOPM_2_20171127T2105520_20171127T21304_C001 CS_OFFL_SIR_IOPM_2_20171127T213525_20171127T2131816_C001 CS_OFFL_SIR_IOPM_2_20171127T213525_20171127T2131816_C001 CS_OFFL_SIR_IOPM_2_20171127T220579_20171127T220941_C001 CS_OFFL_SIR_IOPM_2_20171127T221632_20171127T220941_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T220941_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T220941_C001 CS_OFFL_SIR_IOPM_2_20171127T22094_20171127T22094_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T22094_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T223094_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T223094_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T223094_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T223094_C001 CS_OFFL_SIR_IOPM_2_20171127T222094_20171127T23035_C001 CS_OFFL_SIR_IOPM_2_20171127T23402_20171127T23305_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T233403_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235543_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235543_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171127T035543_C001 CS_OFFL_SIR_IOPM_2_20171127T12735558_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T1045500_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T104555_0	CS_OFFL_SIR_IOPM_2_20171127T190952_20171127T192034_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T204504_200171127T204504_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has bee	CS_OFFL_SIR_IOPM_2_20171127T192606_20171127T193600_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T204504_C001	CS_OFFL_SIR_IOPM_2_20171127T200721_20171127T203304_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T205028_20171127T205049_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status F	CS_OFFL_SIR_IOPM_2_20171127T203640_20171127T204128_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T210508_20171127T21304_C001 CS_OFFL_SIR_IOPM_2_20171127T210158_20171127T21304_C001 CS_OFFL_SIR_IOPM_2_20171127T213525_20171127T213816_C001 CS_OFFL_SIR_IOPM_2_20171127T220759_20171127T220741_C001 CS_OFFL_SIR_IOPM_2_20171127T221632_20171127T222157_C001 CS_OFFL_SIR_IOPM_2_20171127T222901_20171127T222504_C001 CS_OFFL_SIR_IOPM_2_20171127T222501_20171127T225004_C001 CS_OFFL_SIR_IOPM_2_20171127T222501_20171127T225004_C001 CS_OFFL_SIR_IOPM_2_20171127T222502_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T231748_C001 CS_OFFL_SIR_IOPM_2_20171127T233558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T235582_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T1035927_C001 CS_OFFL_SIR_IOPM_2_20171127T104555_20171127T1035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CC_OCAR Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPM_2_20171127T204134_20171127T204504_C001	Ice Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20171127T220759_20171127T220941_C001 CS_OFFL_SIR_IOPM_2_20171127T221632_20171127T220941_C001 CS_OFFL_SIR_IOPM_2_20171127T2221632_20171127T222157_C001 CS_OFFL_SIR_IOPM_2_20171127T222901_20171127T225004_C001 CS_OFFL_SIR_IOPM_2_20171127T222901_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T225050_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T231432_20171127T231748_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T233558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T1042352_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T10423544_20171127T104592_C001 CS_OFFL_SIR_IOPM_2_20171127T1045550_20171127T1050952_C001 CS_OFFL_SIR_IOPR_2_20171127T035944_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035043_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T045050_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T034035_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T0	CS_OFFL_SIR_IOPM_2_20171127T210158_20171127T212304_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T221632_20171127T222157_C001 CS_OFFL_SIR_IOPM_2_20171127T222901_20171127T225004_C001 CS_OFFL_SIR_IOPM_2_20171127T222901_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T22550_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T230325_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T231748_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T1045559_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T1045559_20171127T1035947_C001 CS_OFFL_SIR_IOPM_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T035055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T094035_20171127T094035_C001 CC_ORAL Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc 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 r	CS_OFFL_SIR_IOPM_2_20171127T213525_20171127T213816_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T231748_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T231748_C001 CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T231748_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T1045559_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T1045559_20171127T1035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T094035_20171127T0	CS_OFFL_SIR_IOPM_2_20171127T221632_20171127T222157_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPM_2_20171127T1045559_20171127T1045824_C001 CS_OFFL_SIR_IOPM_2_20171127T1035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094	CS_OFFL_SIR_IOPM_2_20171127T222901_20171127T225004_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001 CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPN_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T104551_C001 CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T1035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T094035_20171127T	CS_OFFL_SIR_IOPM_2_20171127T225250_20171127T230325_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171127T23558_20171128T000055_C001 CS_OFFL_SIR_IOPM_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPN_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T185824_C001 CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T185824_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T094035_2017	CS_OFFL_SIR_IOPM_2_20171127T231432_20171127T231748_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPN_2_20171127T104235_20171127T104551_C001 CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T185824_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T094035_20171127T094	CS_OFFL_SIR_IOPM_2_20171127T233402_20171127T235043_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20171127T104545_20171127T104545_C001 CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T185824_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094005_C001 CS_OFFL_SIR_IOPR_2_20171127T0940035_20171127T094005_C001 CS_OFFL_SIR_IOPR_2_20171127T0940035_20171127T09400	CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20171127T085595_20171127T085824_C001 CS_OFFL_SIR_IOPR_2_20171127T035544_20171127T035927_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001 CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094205_C001 CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094205_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.	CS_OFFL_SIR_IOPN_2_20171127T104235_20171127T104551_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094205_C001 CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094205_C001 CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094205_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T185824_C001	Ice Range Averaging Status	
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US OFFI SIR JOPR / 2017/12/1094035 2017/12/1094205 C001 JOCEAN RANGE AVERAGING STATUS	CS_OFFL_SIR_IOPR_2_20171127T045450_20171127T050055_C001	Ocean Range Averaging Status	
	CS_OFFL_SIR_IOPR_2_20171127T094035_20171127T094205_C001	Ocean Range Averaging Status	

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors: 73

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171127T002333_20171127T004150_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_20171127T005906_20171127T013301_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_20171127T014723_20171127T020637_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_20171127T020653_20171127T021939_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_20171127T022851_20171127T023047_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171127T023233_20171127T023551_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171127T023813_20171127T025314_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_20171127T025517_20171127T030505_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_20171127T032246_20171127T032441_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171127T032718_20171127T034354_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_20171127T041022_20171127T041452_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171127T041736_20171127T043141_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_20171127T043321_20171127T043348_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_20171127T050709_20171127T050848_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_20171127T051844_20171127T054147_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_20171127T054521_20171127T055355_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171127T055720_20171127T062143_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have 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_20171127T065318_20171127T070705_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 20171127T071004 20171127T072040 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T072734_20171127T073152_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_20171127T073642_20171127T080244_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_20171127T081236_20171127T081346_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_20171127T082823_20171127T084348_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 20171127T084919 20171127T085834 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T090646 20171127T091232 C001 Ice Backscatter Averaging Status 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_20171127T095138_20171127T095238_C001 more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20171127T100534_20171127T103844_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T104551_20171127T105103_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_20171127T105634_20171127T111217_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_20171127T113041_20171127T113158_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_20171127T114317_20171127T121247_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_20171127T121258_20171127T121749_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171127T122401 20171127T122550 C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T122557_20171127T123010_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_20171127T123506_20171127T130755_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 20171127T132300 20171127T134244 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_20171127T134246_20171127T135022_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_20171127T135024_20171127T135707_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T135926_20171127T140449_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_20171127T141558_20171127T142825_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_20171127T142947_20171127T144640_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 20171127T150817 20171127T151922 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 20171127T152125 20171127T153617 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T153852_20171127T154347_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T154424_20171127T154543_C001 Ice Backscatter Averaging Status 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_20171127T155231_20171127T155701_C001 more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20171127T161012 20171127T162249 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_20171127T170035_20171127T171459_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T171827_20171127T172316_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_20171127T173022_20171127T175613_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_20171127T182943_20171127T185355_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T185825_20171127T190215_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T190236_20171127T190601_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_20171127T190952_20171127T192034_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 20171127T192606 20171127T193600 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 20171127T200721 20171127T203304 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T203640_20171127T204128_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T204134_20171127T204504_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 20171127T205028 20171127T205949 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_20171127T210158_20171127T212304_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_20171127T213525_20171127T213816_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_20171127T220759_20171127T220941_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T221632_20171127T222157_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 20171127T222901 20171127T225004 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_20171127T225250_20171127T230325_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_20171127T231432_20171127T231748_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 20171127T233402 20171127T235043 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20171127T235558_20171128T000055_C001 Ice Backscatter Averaging Status records.

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CS_OFFL_SIR_IOPN_2_20171127T104235_20171127T104551_C001	lice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171127T185559_20171127T185824_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has 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).

Number of products with errors:

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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_220171127T181303_20171127T190237_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: 25

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171127T000134_20171127T005108_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T005108_20171127T014047_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T014047_20171127T023022_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_20171127T023022_20171127T032001_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_220171127T032001_20171127T040935_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_20171127T040935_20171127T045914_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_20171127T045914_20171127T054849_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_220171127T054849_20171127T063828_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_220171127T063828_20171127T072803_C002	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_20171127T072803_20171127T081742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T081742_20171127T090716_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_220171127T090716_20171127T095655_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_220171127T104630_20171127T113609_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_20171127T113609_20171127T122543_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T122543_20171127T131522_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_220171127T131522_20171127T140457_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_220171127T140457_20171127T145436_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_20171127T145436_20171127T154410_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_220171127T154410_20171127T163349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T172324_20171127T181303_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T181303_20171127T190237_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_220171127T195217_20171127T204151_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.
	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_20171127T222105_20171127T231044_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T231044_20171128T000018_C002	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.

Number of products with errors:

Product Test Failed Description SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOP_2__20171127T000134_20171127T005108_C002 **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_IOP_2__20171127T005108_20171127T014047_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T014047_20171127T023022_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T023022_20171127T032001_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T032001_20171127T040935_C001 Backscatter Averaging Status, Ice or more records. Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T040935_20171127T045914_C001 Backscatter Averaging Status, Ice or more records. **Backscatter Averaging Status** SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS OFFL SIR IOP 2 20171127T045914 20171127T054849 C001 Backscatter Averaging Status, Ice or more records. Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T054849_20171127T063828_C001 Backscatter Averaging Status, Ice or more records. Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOP_2__20171127T063828_20171127T072803_C002 **Backscatter Averaging Status** SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOP_2__20171127T072803_20171127T081742_C001 more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOP_2__20171127T081742_20171127T090716_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status, Ice The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T090716_20171127T095655_C001 or more records. **Backscatter Averaging Status** SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS OFFL SIR IOP 2 20171127T104630 20171127T113609 C001 Backscatter Averaging Status, Ice or more records Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOP 2 20171127T113609 20171127T122543 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS OFFL SIR IOP 2 20171127T122543 20171127T131522 C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T131522_20171127T140457_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T140457_20171127T145436_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T145436_20171127T154410_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOP_2__20171127T154410_20171127T163349_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_IOP_2__20171127T172324_20171127T181303_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS OFFL SIR IOP 2 20171127T181303 20171127T190237 C001 Backscatter Averaging Status, Ice or more records. Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS OFFL SIR IOP 2 20171127T195217 20171127T204151 C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one CS_OFFL_SIR_IOP_2__20171127T213130_20171127T222105_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOP_2__20171127T222105_20171127T231044_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOP_2__20171127T231044_20171128T000018_C002 Backscatter Averaging Status 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_220171127T000134_20171127T005108_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T005108_20171127T014047_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T014047_20171127T023022_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T023022_20171127T032001_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T032001_20171127T040935_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T040935_20171127T045914_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T045914_20171127T054849_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T054849_20171127T063828_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T063828_20171127T072803_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T072803_20171127T081742_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T081742_20171127T090716_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T090716_20171127T095655_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T113609_20171127T122543_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T122543_20171127T131522_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T131522_20171127T140457_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T140457_20171127T145436_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T145436_20171127T154410_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T154410_20171127T163349_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T172324_20171127T181303_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T181303_20171127T190237_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T195217_20171127T204151_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T213130_20171127T222105_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171127T222105_20171127T231044_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171127T231044_20171128T000018_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.