



1. Overview

Report Production:	05-Dec-2017
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

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

Mission	Inst	rument	News

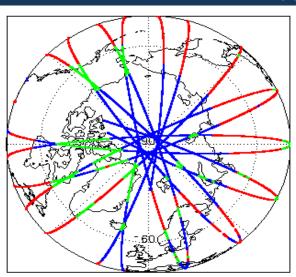
29-Nov-2017 None

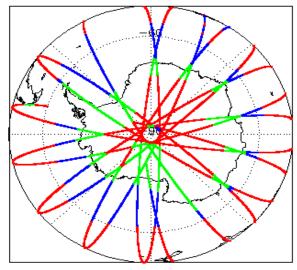
30-Nov-2017 SIRAL

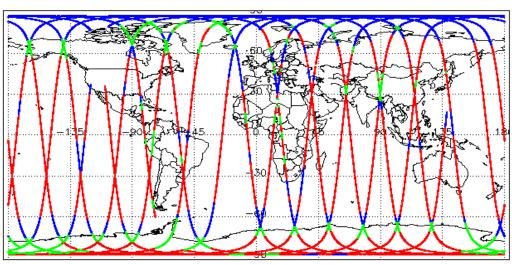
SIRAL unavailability on 30-Nov-2017 from 12:22:00 to 14:21:24 due to a planned orbit manoeuvre.

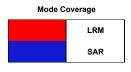
01-Dec-2017 Nothing planned

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:

- 0

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:

48

Product	Test Foiled	Description
CS OFFL SIR IOPM1B 20171130T025252 20171130T030742 C001	Test Failed Power scaling error	Description There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20171130T004823_20171130T005247_C001	Attitude correction missing	records The attitude has not been corrected
CS OFFL SIR IOPR1B 20171130T012606 20171130T013305 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T022710_20171130T022818_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T025038_20171130T025252_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T030743_20171130T030823_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171130T044833 20171130T045032 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T052554_20171130T052700_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T054040_20171130T054651_C001		The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T035040_20171130T054051_C001	Attitude correction missing	
	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T062731_20171130T063006_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T064119_20171130T064342_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T072021_20171130T072138_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T072204_20171130T072713_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T073856_20171130T074039_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T080528_20171130T080932_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T085937_20171130T090048_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T090103_20171130T090907_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T100250_20171130T100309_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T100559_20171130T100844_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T102644_20171130T103042_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T105125_20171130T105136_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T110043_20171130T110327_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T112455_20171130T112811_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T113242_20171130T113248_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T115202_20171130T115349_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T120624_20171130T121305_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T121538_20171130T121734_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T142124_20171130T142415_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T145038_20171130T145044_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T145051_20171130T145057_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T153848_20171130T154536_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T162139_20171130T162301_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T171049_20171130T171311_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T173756_20171130T173901_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T180020_20171130T180245_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T181432_20171130T181619_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T185535_20171130T190536_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T200624_20171130T201202_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T203251_20171130T203431_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T203431_20171130T204025_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T204055_20171130T204520_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T210943_20171130T211457_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T211843_20171130T212142_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T221147_20171130T221842_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T221842_20171130T222135_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T231049_20171130T231437_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171130T235741_20171201T000000_C001	Attitude correction missing	The attitude has not been corrected
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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: 22

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171130T043438_20171130T044833_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171130T151636_20171130T153231_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171130T164147_20171130T165308_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T022819_20171130T022939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T023241_20171130T023451_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T030823_20171130T031432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T040914_20171130T040957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T041148_20171130T041357_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T054651_20171130T055146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T121734_20171130T122035_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T153231_20171130T153514_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T153633_20171130T153704_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T153706_20171130T153848_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171130T170014_20171130T170136_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T012606_20171130T013305_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T050238_20171130T050357_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T080528_20171130T080932_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T094508_20171130T094922_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T103245_20171130T103434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T195321_20171130T195608_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T213208_20171130T213633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171130T223015_20171130T223336_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors: 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: 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:

ber 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_20171130T025252_20171130T030742_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: 7

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171130T000528_20171130T003808_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T003812_20171130T004031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T010032_20171130T012606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T013541_20171130T013733_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T014514_20171130T020034_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

See Fig. 19(1) 12 2071130100009 2071150100009 20111501000009 200111501000009 20111501000009 20111501000009 20111501000009 20111501000009 20111501000009 20111501000009 20111501000009 20111501000009 20111501000009 20111501000009 201115010000009 201115010000009 201115010000009 201115010000000000000000000000000000000
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CS_OFFL_SIR_IOPM_2_20171130T074039_20171130T080532_C001 Coean Range Averaging Status Coean Range Averaging Status The Coean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20171130T081332_20171130T081930_C001 CS_OFFL_SIR_IOPM_2_20171130T082246_20171130T084940_C001 CS_OFFL_SIR_IOPM_2_20171130T08129_20171130T084960_C001 CS_OFFL_SIR_IOPM_2_20171130T08129_20171130T084960_C001 CS_OFFL_SIR_IOPM_2_20171130T082246_20171130T1095500_C001 CS_OFFL_SIR_IOPM_2_20171130T095239_20171130T095500_C001 CS_OFFL_SIR_IOPM_2_20171130T100436_20171130T1005560_C001 CS_OFFL_SIR_IOPM_2_20171130T100436_20171130T1005500_C001 CS_OFFL_SIR_IOPM_2_20171130T100436_20171130T100456_C001 CS_OFFL_SIR_IOPM_2_20171130T100436_20171130T110042_C001 CS_OFFL_SIR_IOPM_2_20171130T100436_20171130T110042_C001 CS_OFFL_SIR_IOPM_2_20171130T110328_20171130T110045_C001 CS_OFFL_SIR_IOPM_2_20171130T110328_20171130T110045_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T113055_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T113055_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T113055_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T11505_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T115055_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T11505_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T11505_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T11505_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T11505_C001 CS_OFFL_SIR_IOPM_2_20171130T11328_20171130T11505_C001 CS_OFFL_SIR_IOPM_2_20171130T11505_D1_C001 CS_OFFL_SIR_IOPM_2_20171130T1605_D1_C001 CS_OFFL_SIR_IOPM_2_20171130T1605_D1_C001
CS_OFFL_SIR_IOPM_2_20171130T105581_20171130T105930_C001 CS_OFFL_SIR_IOPM_2_20171130T061332_20171130T061930_C001 CS_OFFL_SIR_IOPM_2_20171130T061332_20171130T064504_C001 CS_OFFL_SIR_IOPM_2_20171130T061302_20171130T064504_C001 CS_OFFL_SIR_IOPM_2_20171130T061302_20171130T06500_C001 CS_OFFL_SIR_IOPM_2_20171130T06130_20171130T06500_C001 CS_OFFL_SIR_IOPM_2_20171130T106130_C001 CS_OFFL_SIR_IOPM_2_20171130T106130_C001 CS_OFFL_SIR_IOPM_2_20171130T106130_C001 CS_OFFL_SIR_IOPM_2_20171130T106130_C001 CS_OFFL_SIR_IOPM_2_20171130T106130_C001 CS_OFFL_SIR_IOPM_2_20171130T106130_C001 CS_OFFL_SIR_IOPM_2_20171130T106130_C001 CS_OFFL_SIR_IOPM_2_20171130T1106130_C001 CS_OFFL_SIR_IOPM_2_20171130T11061300_C001 CS_OFFL_SIR_IOPM_2_20171130T11061300_C001 CS_OFFL_SIR_IOPM_2_20171130T11061300_C001 CS_OFFL_SIR_IOPM_2_20171130T11061300_C001 CS_OFFL_SIR_IOPM_2_20171130T11061300_C001 CS_OFFL_SIR_IOPM_2_20171130T11061300_C001 CS_OFFL_SIR_IOPM_2_20171130T1106130002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T1106130002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T110613002_001 CS_OFFL_SIR_IOPM_2_20171130T1106130002_00171130T1106002_001 CS_OFFL_SIR_IOPM_2_20171130T1106130002_
SOFFL SIR JOPM 2 20171130T081332 20171130T081930 C001 Coean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more ecoxis. The Coean Range Averaging Status Flag has been set for one or more ecoxis. The Coean Range Averaging Status Flag has been set for one or more ecoxis. The Coean Range Averaging Status Flag has been set for one or more ecoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has been set for one or more recoxis. The Coean Range Averaging Status Flag has
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CS_OFFL_SIR_IOPM_2_20171130T120143_20171130T120624_C001 CS_OFFL_SIR_IOPM_2_20171130T142416_20171130T142709_C001 CS_OFFL_SIR_IOPM_2_20171130T142712_20171130T142709_C001 CS_OFFL_SIR_IOPM_2_20171130T142712_20171130T144319_C001 CS_OFFL_SIR_IOPM_2_20171130T142712_20171130T144319_C001 CS_OFFL_SIR_IOPM_2_20171130T14529_20171130T1445037_C001 CS_OFFL_SIR_IOPM_2_20171130T145037_C001 CS_OFFL_SIR_IOPM_2_20171130T150024_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T150024_20171130T15016_C001 CS_OFFL_SIR_IOPM_2_20171130T151636_20171130T153231_C001 CS_OFFL_SIR_IOPM_2_20171130T15537_20171130T160622_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T160622_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T162138_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_
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CS_OFFL_SIR_IOPM_2_20171130T142712_20171130T144319_C001 CS_OFFL_SIR_IOPM_2_20171130T142712_20171130T144319_C001 CS_OFFL_SIR_IOPM_2_20171130T144529_20171130T145037_C001 CS_OFFL_SIR_IOPM_2_20171130T150024_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T151636_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T151636_20171130T153231_C001 CS_OFFL_SIR_IOPM_2_20171130T155537_20171130T160622_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T1602138_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T162138_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162555_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162555_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163023_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163023
CS_OFFL_SIR_IOPM_2_20171130T144529_20171130T15016_C001 CS_OFFL_SIR_IOPM_2_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T151016_C001 CS_OFFL_SIR_IOPM_2_20171130T15537_20171130T160622_C001 CS_OFFL_SIR_IOPM_2_20171130T155537_20171130T160622_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T160622_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T162138_C001 CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163003_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 CS_OFFL_SIR_IOPM_2_20171130T163013_
CS_OFFL_SIR_IOPM_2_20171130T150024_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T16303_2001 Ice Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20171130T160802_20171130T160622_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 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.
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CS_OFFL_SIR_IOPM_2_20171130T16363_20171130T163032_C001 CS_OFFL_SIR_IOPM_2_20171130T163632_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T162948_C001 CS_OFFL_SIR_IOPM_2_20171130T162448_20171130T163007_C001 Ice 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.
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CS_OFFL_SIR_IOPM_2_20171130T162945_20171130T163007_C001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163007_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOFM_2_201711301102995_201711301103007_C001
CS_OFFI_SIR_IOPM_2_20171130T163013_20171130T163023_C001
10001001
CS_OFFL_SIR_IOPM_2_20171130T163826_20171130T164011_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T164147_20171130T165308_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFI_SIR_IOPM_2_20171130T165405_20171130T165721_C001 Ocean Range Averaging Status The Ocean Range Averaging Status
CS_OFFL_SIR_IOPM_2_20171130T165724_20171130T170014_C001
CS_OFFL_SIR_IOPM_2_20171130T170258_20171130T171048_C001
CS_OFFI_SIR_IOPM_2_20171130T173901_20171130T180020_C001
CS_OFFL_SIR_IOPM_2_20171130T180526_20171130T180905_C001
The Ire Range Δveraging Status Flag has been set for one or more
CS_OFFL_SIR_IOFM_2_201711301100927_201711301101231_C001 IICE Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_201711301181620_201711301184235_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOFM_2_201711301191925_201711301193945_C001 Ocean Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171130T194308_20171130T194819_C001 Ice Range Averaging Status records.

CS_OFFL_SIR_IOPM_2_20171130T195608_20171130T200624_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T201202_20171130T202859_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T205150_20171130T210228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T211457_20171130T211843_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T212307_20171130T212852_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T213633_20171130T220836_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T222135_20171130T222240_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T224003_20171130T225700_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T231438_20171130T234859_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171130T103452_20171130T103550_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171130T105005_20171130T105124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171130T170014_20171130T170136_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171130T071757_20171130T071900_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171130T113820_20171130T114232_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171130T145038_20171130T145044_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
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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:

69

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171130T000528_20171130T003808_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_20171130T010032_20171130T012606_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_20171130T013541_20171130T013733_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T014514_20171130T020034_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_20171130T020037_20171130T020157_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_20171130T020639_20171130T021429_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_20171130T022939_20171130T023241_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T023452_20171130T025038_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_20171130T025252_20171130T030742_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_20171130T031432_20171130T031646_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T031728_20171130T032146_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T032355_20171130T033826_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_20171130T034005_20171130T035440_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_20171130T041357_20171130T042739_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_20171130T043438_20171130T044833_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_20171130T045223_20171130T050049_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T050357_20171130T052554_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_20171130T060147_20171130T062730_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_20171130T063412_20171130T063903_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T064342_20171130T070759_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_20171130T074039_20171130T075033_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_20171130T075611_20171130T080528_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_20171130T081332_20171130T081930_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T082246_20171130T084940_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_20171130T091219_20171130T094508_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_20171130T095239_20171130T095800_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T100436_20171130T100558_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_20171130T103550_20171130T103938_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_20171130T105136_20171130T110042_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20171130T110328_20171130T112454_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_20171130T113248_20171130T113655_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T114232_20171130T115201_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_20171130T115349_20171130T115953_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_20171130T120143_20171130T120624_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_20171130T142416_20171130T142709_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_20171130T142712_20171130T144319_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_20171130T144529_20171130T145037_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T145044_20171130T145051_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T150024_20171130T151016_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_20171130T151636_20171130T153231_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_20171130T155537_20171130T160622_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_20171130T160802_20171130T162138_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_20171130T162448_20171130T162948_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T162955_20171130T163007_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T163013_20171130T163023_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T164147_20171130T165308_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_20171130T165405_20171130T165721_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_20171130T165724_20171130T170014_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_20171130T170258_20171130T171048_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_20171130T173901_20171130T180020_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_20171130T180927_20171130T181231_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T181620_20171130T184235_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_20171130T191525_20171130T193945_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_20171130T194308_20171130T194819_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T195608_20171130T200624_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_20171130T201202_20171130T202859_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_20171130T211457_20171130T211843_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_20171130T212307_20171130T212852_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T213633_20171130T220836_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_20171130T222135_20171130T222240_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_20171130T224003_20171130T225700_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_20171130T230234_20171130T230745_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171130T231438_20171130T234859_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_20171130T103452_20171130T103550_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_20171130T105005_20171130T105124_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_20171130T170014_20171130T170136_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_20171130T071757_20171130T071900_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_20171130T113820_20171130T114232_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_20171130T145038_20171130T145044_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: 62

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

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_220171130T022644_20171130T031619_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:

26

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20171129T235752_20171130T004730_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOP_220171130T004730_20171130T013705_C001	Ocean Range Averaging Status, Ice Range Averaging Status	records. The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171130T013705_20171130T022644_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T022644_20171130T031619_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_220171130T031619_20171130T040557_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_220171130T040557_20171130T045532_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_220171130T045532_20171130T054511_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_220171130T054511_20171130T063446_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_220171130T063446_20171130T072425_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T072425_20171130T081359_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_220171130T081359_20171130T090338_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_220171130T090338_20171130T095313_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T095313_20171130T104252_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_220171130T104252_20171130T113227_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_220171130T113227_20171130T122205_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_220171130T140119_20171130T145053_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_220171130T145053_20171130T154032_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_220171130T163007_20171130T171946_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_220171130T171946_20171130T180921_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_220171130T180921_20171130T185900_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T185900_20171130T194834_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_220171130T194834_20171130T203813_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T203813_20171130T212748_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_220171130T212748_20171130T221727_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_220171130T221727_20171130T230702_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T230702_20171130T235640_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_220171129T235752_20171130T004730_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_220171130T004730_20171130T013705_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_220171130T013705_20171130T022644_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_220171130T022644_20171130T031619_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_220171130T031619_20171130T040557_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_220171130T040557_20171130T045532_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_220171130T045532_20171130T054511_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_220171130T054511_20171130T063446_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_220171130T063446_20171130T072425_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_220171130T072425_20171130T081359_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171130T081359_20171130T090338_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_220171130T090338_20171130T095313_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_220171130T095313_20171130T104252_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_220171130T104252_20171130T113227_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_220171130T113227_20171130T122205_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_220171130T140119_20171130T145053_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_220171130T145053_20171130T154032_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_220171130T163007_20171130T171946_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_220171130T171946_20171130T180921_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_220171130T180921_20171130T185900_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_220171130T185900_20171130T194834_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_220171130T194834_20171130T203813_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_220171130T203813_20171130T212748_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_220171130T212748_20171130T221727_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_220171130T221727_20171130T230702_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_220171130T230702_20171130T235640_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171129T235752_20171130T004730_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T004730_20171130T013705_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T013705_20171130T022644_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T022644_20171130T031619_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T031619_20171130T040557_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T040557_20171130T045532_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T045532_20171130T054511_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T054511_20171130T063446_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T063446_20171130T072425_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T072425_20171130T081359_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T081359_20171130T090338_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171130T090338_20171130T095313_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220171130T095313_20171130T104252_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T104252_20171130T113227_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T113227_20171130T122205_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T140119_20171130T145053_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T145053_20171130T154032_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T163007_20171130T171946_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T180921_20171130T185900_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T185900_20171130T194834_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T203813_20171130T212748_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T212748_20171130T221727_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T221727_20171130T230702_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171130T230702_20171130T235640_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.