



1. Overview

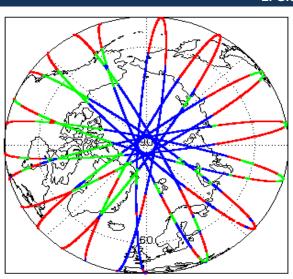
Report Production:	20-Dec-2017	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

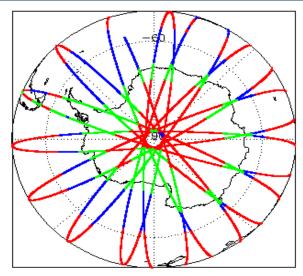
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

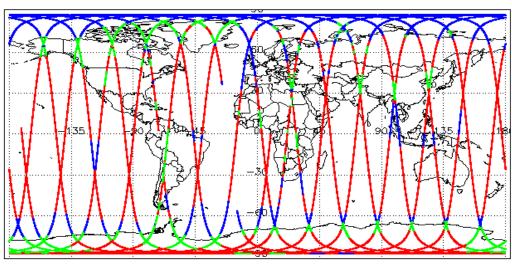
wission / instrument news		
07-Nov-2017	None	

08-Nov-2017 None 09-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:

- (

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:

54

Compage Comp	Number of products with errors.	l=	la
Co., CH.S., P. (C. P. C.	Product CS OFFI SID IODMAR 2017/1/10/11/8/302 2017/1/10/11/9/7/8 C001	Test Failed	There is an error in the scaling of the L1B waveform for one or more
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CS_OFFL_SR_JOPRIB_20171108T061655_20171108T07444_J0011			
CS_OFF_SR_QOPRIB_20111108107441_201111081074452_001		-	
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CS_OFFL_SIR_IOPRIB_20171108T108252_2017108T1085052_2017108T108412_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T108535_20171108T108412_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T123753_2017108T122432_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T123753_2017108T122432_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T12471_2017108T122432_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T1303272_2017108T132332_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T1303272_2017108T1303231_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T142123_2017108T142128_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T142132_2017108T142132_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T144814_2017108T14253_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T149082_2017108T151037_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142142_20171108T16373_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T162143_2017108T16373_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T162143_2017108T16327_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T16844_20171108T164321_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T16644_2017108T164321_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T12082_2017108T120840_2001 Altitude correction missing The attitude has not been correcte	CS_OFFL_SIR_IOPR1B_20171108T092632_20171108T093541_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_20171108T109335_20171108T109412_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T109535_2017108T129432_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T129732_2017108T129832_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T129732_2017108T129832_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T129732_2017108T129832_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T14212_C001 Altitude correction missing The attitude has not been corrected The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T14283_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T14283_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T14983_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T1592_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T1593_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T15742_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T15742_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T1574_C0011 CS_OFFL_SIR_IOPRIB_2017108T15742_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T1681410_C0017108T168412_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T168214_C0017108T168412_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T108141684_C0017108T16984_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_2017108T108141684_C0017108T16994_C001 Altitude correction missing The attitude has no	CS_OFFL_SIR_IOPR1B_20171108T101118_20171108T101554_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_20171108T112355_20171108T112345_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T123552_20171108T123552_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T123752_20171108T123552_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142712_20171108T133351_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142122_20171108T142123_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142123_20171108T142123_2001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142123_20171108T142542_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T14215132_20171108T151037_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151732_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151732_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151732_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151742_20171108T151732_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T15174102_171108T1527_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T164482_20171108T165447_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T164482_20171108T165491_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T164482_20171108T165601_0001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T1616402_20171108T165040_0001 Altitude correction missing The attitude has not been corrected CS_OF	CS_OFFL_SIR_IOPR1B_20171108T102625_20171108T102850_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_OPRIB_20171108T123732_20171108T123432_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T123732_20171108T123452_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T149T1232732_20171108T123457_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142123_20171108T142128_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T14213_20171108T142138_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142631_20171108T14239_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T1414343_Q1071108T15037_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151734_20171108T151732_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151743_20171108T151732_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151743_20171108T151732_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151743_20171108T151732_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T154142_20171108T15427_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T1544848_20171108T1545174_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T164488_20171108T164654_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T164684_20171108T164654_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T164684_20171108T164654_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T1616464_20171108T193130_C001 Altitude correction missing The attitude has not been corrected C	CS_OFFL_SIR_IOPR1B_20171108T105335_20171108T105412_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_OPRIB_20171108T123723_20171108T123852_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T132712_20171108T132331_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142123_20171108T142122_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142123_20171108T142122_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142123_20171108T14350_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T146714_20171108T145732_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151734_20171108T151732_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T15174_20171108T151732_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T15174_20171108T15732_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T15174_20171108T154321_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T1631410_20171108T163212_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T164848_20171108T164945_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T16848_20171108T169451_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T16848_20171108T16940_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T180182_20171108T180190_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T1301108T180190_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T20132_20171108T130190_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_2017	CS_OFFL_SIR_IOPR1B_20171108T110656_20171108T111444_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_OPRIB_20171108T124714_20171108T124557_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142123_20171108T142132_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142123_20171108T142132_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T142133_0001 CS_OFFL_SIR_OPRIB_20171108T144514_20171108T145254_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151734_20171108T151737_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_2017108T151734_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151734_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T151734_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T163143_20171108T153174_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T16484_20171108T16484_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T16484_20171108T164854_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T16484_20171108T164854_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T16484_20171108T164854_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T16481017387_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T1818106_20171108T1818137_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T1818130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_OPRIB_20171108T24182_20171108T1318147_C001 Attitude correction missing The attitude has not been correcte	CS_OFFL_SIR_IOPR1B_20171108T123355_20171108T123432_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_20171108T133227_20171108T133231_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142812_20171108T143232_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142831_20171108T143232_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T159505_20171108T1591037_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T159132_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T159132_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T159132_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T159132_C0171108T159132_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163142_20171108T163412_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163426_C0171108T1634312_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163442_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T165645_20171108T165651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T165642_C0171108T165651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T176032_20171108T176040_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T181013_C0011 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T132251_20171108T133130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T22456_20171108T22456_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T22456_20171108T22456_C011 Attitude corre	CS_OFFL_SIR_IOPR1B_20171108T123723_20171108T123852_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_20171108T142123_20171108T142128_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T142831_20171108T143350_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T150950_20171108T151037_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151746_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T152143_20171108T15341_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163216_20171108T163417_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163216_20171108T163410_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T16545_20171108T16565_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T165645_20171108T165651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T176382_20171108T173617_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T180162251_20171108T173617_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T1616106_20171108T180157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T201736_20171108T21138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T20736_20171108T21138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T20736_20171108T21138_C001 Attitude correction missing The attitude has not been corr	CS_OFFL_SIR_IOPR1B_20171108T124714_20171108T125457_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_20171108T1442631_20171108T144253_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T164980_2017108T151739_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151739_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151739_CO01 Attitude correction missing The attitude has not been corrected The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T151732_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T151734_20171108T152747_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163216_20171108T163417_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163216_20171108T163417_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163645_20171108T163645_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T163645_20171108T163656_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T170836_20171108T170940_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T170836_20171108T181187_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T120564_20171108T181187_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T120564_20171108T20640_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T22056_20171108T20640_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T224556_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_IOPRIB_20171108T224556_CO01 Attitude correction missing The attitude has not been corrected CS_OF	CS_OFFL_SIR_IOPR1B_20171108T133027_20171108T133231_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_JOPR1B_20171108T150950_20171108T151037_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T15734_20171108T151739_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T151734_20171108T151739_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T151744_20171108T151752_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T151243_20171108T15247_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T164110_20171108T163241_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T163216_20171108T163417_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T163246_20171108T163645_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T165645_20171108T165651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T173328_20171108T165651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T173328_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T193251_20171108T181197_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T210736_20171108T214545_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T22376_20171108T22376_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SI	CS_OFFL_SIR_IOPR1B_20171108T142123_20171108T142128_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_JOPR1B_20171108T151095_20171108T151097_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T151742_20171108T151752_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T1517542_20171108T151752_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T152142_20171108T152472_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T164142_20171108T164317_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T1644842_20171108T164945_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T1644842_20171108T164945_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T165645_20171108T165651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T1708362_20171108T170940_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T1708362_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T1801822211071108T181917001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T1801820044_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T200344_20171108T20040_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T200342_20171108T20040_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T200342_20171108T203400_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T2035230_20171108T203400_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOPR1B_20171108T203505_20171108T203500_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_JOP	CS_OFFL_SIR_IOPR1B_20171108T142631_20171108T143350_C001	Attitude correction missing	The attitude has not been corrected
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CS_OFFL_SIR_IOPR1B_20171108T231805_20171108T231932_C001 Attitude correction missing The attitude has not been corrected		-	
CS_OFFL_SIR_IOPR1B_20171108T232354_20171108T232754_C001 Attitude correction missing The attitude has not been corrected		-	
	CS_OFFL_SIR_IOPR1B_20171108T232354_20171108T232754_C001	Attitude correction missing	The attitude has not been corrected

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171108T003217_20171108T010744_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171108T111854_20171108T115142_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171108T162245_20171108T163216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171108T211738_20171108T214551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T043656_20171108T043911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T051116_20171108T051244_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T052738_20171108T052924_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T061614_20171108T061817_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T084443_20171108T084733_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T093542_20171108T094028_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T105412_20171108T105611_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T160233_20171108T160545_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T165825_20171108T170435_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T174014_20171108T174428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171108T225740_20171108T225945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T010830_20171108T011517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T011947_20171108T013001_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T074733_20171108T074833_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T074905_20171108T075334_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T115142_20171108T115517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T123355_20171108T123432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T123852_20171108T124329_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T152143_20171108T152747_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171108T215907_20171108T220314_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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). 0

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_20171108T184302_20171108T190748_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171107T235902_20171108T001439_C001	IUcean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T003217_20171108T010744_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T013518_20171108T015251_C001		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
CS_OFFL_SIR_IOPM_2_20171108T020219_20171108T020425_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T021201_20171108T024715_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171108T030020_20171108T031844_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T031943_20171108T033314_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T034453_20171108T034836_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T035049_20171108T040556_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T040758_20171108T041721_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T043532_20171108T043656_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T043911_20171108T045643_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T051245_20171108T051403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T051950_20171108T052737_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T053039_20171108T054500_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T062302_20171108T065437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T065812_20171108T070025_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T070039_20171108T070630_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T071013_20171108T073446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T080604_20171108T081723_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T082258_20171108T083313_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20171108T084022 20171108T084443 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T084934_20171108T090955_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T092422_20171108T092632_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
CS_OFFL_SIR_IOPM_2_20171108T094028_20171108T101118_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T101932_20171108T102510_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T102851_20171108T103253_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T110411_20171108T110548_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T111854_20171108T115142_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T115836_20171108T120347_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T120922_20171108T122533_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T124329_20171108T124354_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T125628_20171108T133027_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171108T133841_20171108T134252_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T141353_20171108T142122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T143513_20171108T144814_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T145254_20171108T145432_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T145434_20171108T150950_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T151215_20171108T151733_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T151752_20171108T151956_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T152841_20171108T154109_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T154321_20171108T160124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T162245_20171108T163216_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T163418_20171108T164848_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T165140_20171108T165644_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T165709_20171108T165824_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T170436_20171108T170635_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T172237_20171108T172700_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T172823_20171108T173214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T181204_20171108T182740_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR IOPM 2 20171108T183129 20171108T183601 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T184302_20171108T190748_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T194214_20171108T200643_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171108T200956_20171108T201502_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_20171108T201521_20171108T201845_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T202244_20171108T203314_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T203850_20171108T205352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T211738_20171108T214551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T214939_20171108T215415_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T220315_20171108T223533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T224814_20171108T225044_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T231932_20171108T232228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T232255_20171108T232353_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T232920_20171108T233441_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T234134_20171109T000250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171108T025522_20171108T025947_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171108T081723_20171108T082257_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171107T235902_20171108T001439_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_20171108T002014_20171108T002523_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T003217_20171108T010744_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_20171108T013001_20171108T013431_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_20171108T013518_20171108T015251_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_20171108T020219_20171108T020425_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T021201_20171108T024715_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_20171108T030020_20171108T031844_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_20171108T031943_20171108T033314_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_20171108T034453_20171108T034836_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T035049_20171108T040556_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_20171108T040758_20171108T041721_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_20171108T043532_20171108T043656_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T043911_20171108T045643_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_20171108T051245_20171108T051403_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_20171108T051950_20171108T052737_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T053039_20171108T054500_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_20171108T062302_20171108T065437_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_20171108T065812_20171108T070025_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T070039_20171108T070630_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T071013_20171108T073446_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_20171108T080604_20171108T081723_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_20171108T082258_20171108T083313_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_20171108T084022_20171108T084443_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T084934_20171108T090955_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_20171108T094028_20171108T101118_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_20171108T101932_20171108T102510_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T102851_20171108T103253_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_20171108T110411_20171108T110548_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_20171108T111854_20171108T115142_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_20171108T115836_20171108T120347_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T120922_20171108T122533_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171108T124329_20171108T124354_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171108T125628_20171108T133027_C001	Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status	more records. The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T133841_20171108T134252_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T141353_20171108T142122_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_20171108T143513_20171108T144814_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_20171108T145434_20171108T150950_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_20171108T151215_20171108T151733_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T151752_20171108T151956_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T152841_20171108T154109_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_20171108T154321_20171108T160124_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_20171108T162245_20171108T163216_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_20171108T163418_20171108T164848_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_20171108T165140_20171108T165644_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T165709_20171108T165824_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T170436_20171108T170635_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_20171108T172237_20171108T172700_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_20171108T172823_20171108T173214_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_20171108T181204_20171108T182740_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_20171108T183129_20171108T183601_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T184302_20171108T190748_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_20171108T194214_20171108T200643_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_20171108T200956_20171108T201502_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T201521_20171108T201845_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T202244_20171108T203314_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_20171108T203850_20171108T205352_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_20171108T211738_20171108T214551_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_20171108T214939_20171108T215415_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T220315_20171108T223533_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_20171108T224814_20171108T225044_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_20171108T231932_20171108T232228_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_20171108T232255_20171108T232353_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_20171108T232920_20171108T233441_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171108T234134_20171109T000250_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_20171108T025522_20171108T025947_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_20171108T081723_20171108T082257_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171108T183613_20171108T192552_C002	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.

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171107T233509_20171108T002443_C004	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_220171108T002443_20171108T011423_C002	Range Averaging Status Ocean Range Averaging Status	or more records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T011423_20171108T020357_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_220171108T020357_20171108T025336_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T025336_20171108T034310_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_220171108T034310_20171108T043250_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_220171108T043250_20171108T052224_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_220171108T052224_20171108T061203_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_220171108T061203_20171108T070138_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_220171108T070138_20171108T075117_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_220171108T075117_20171108T084051_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_220171108T084051_20171108T093031_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_220171108T093031_20171108T102005_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T102005_20171108T110944_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_220171108T110944_20171108T115918_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_220171108T115918_20171108T124858_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_220171108T124858_20171108T133832_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_220171108T133832_20171108T142811_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_220171108T142811_20171108T151745_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_220171108T151745_20171108T160725_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T160725_20171108T165659_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_220171108T165659_20171108T174638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T183613_20171108T192552_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T192552_20171108T201526_C003	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_220171108T201526_20171108T210506_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_220171108T210506_20171108T215440_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_220171108T215440_20171108T224419_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_220171108T224419_20171108T233353_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_220171108T233353_20171109T002333_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.

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_220171107T233509_20171108T002443_C004	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_220171108T002443_20171108T011423_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171108T011423_20171108T020357_C002	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_220171108T020357_20171108T025336_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171108T025336_20171108T034310_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171108T034310_20171108T043250_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_220171108T043250_20171108T052224_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_220171108T052224_20171108T061203_C002	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_220171108T061203_20171108T070138_C002	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_220171108T070138_20171108T075117_C002	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_220171108T075117_20171108T084051_C002	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_220171108T084051_20171108T093031_C002	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_220171108T093031_20171108T102005_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171108T102005_20171108T110944_C002	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_220171108T110944_20171108T115918_C002	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_220171108T115918_20171108T124858_C002	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_220171108T124858_20171108T133832_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_220171108T133832_20171108T142811_C002	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_220171108T142811_20171108T151745_C002	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_220171108T151745_20171108T160725_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171108T160725_20171108T165659_C002	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_220171108T165659_20171108T174638_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_220171108T183613_20171108T192552_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171108T192552_20171108T201526_C003	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_220171108T201526_20171108T210506_C002	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_220171108T210506_20171108T215440_C002	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_220171108T215440_20171108T224419_C002	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_220171108T224419_20171108T233353_C002	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_220171108T233353_20171109T002333_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors: 26

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171108T002443_20171108T011423_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T011423_20171108T020357_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T020357_20171108T025336_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T025336_20171108T034310_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220171108T034310_20171108T043250_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T043250_20171108T052224_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T061203_20171108T070138_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T070138_20171108T075117_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T075117_20171108T084051_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T084051_20171108T093031_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T093031_20171108T102005_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T102005_20171108T110944_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T110944_20171108T115918_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T115918_20171108T124858_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T124858_20171108T133832_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T133832_20171108T142811_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T142811_20171108T151745_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T151745_20171108T160725_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T160725_20171108T165659_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T165659_20171108T174638_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T183613_20171108T192552_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T192552_20171108T201526_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T201526_20171108T210506_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T210506_20171108T215440_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T215440_20171108T224419_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171108T224419_20171108T233353_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.