



1. Overview

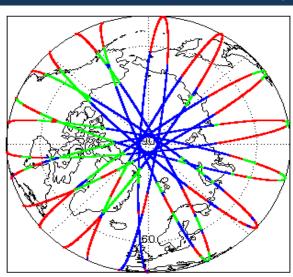
Report Production:	13-Dec-2017	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

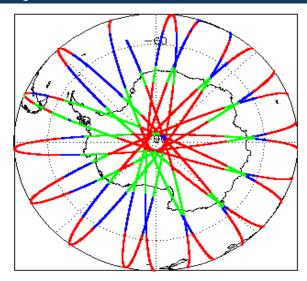
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

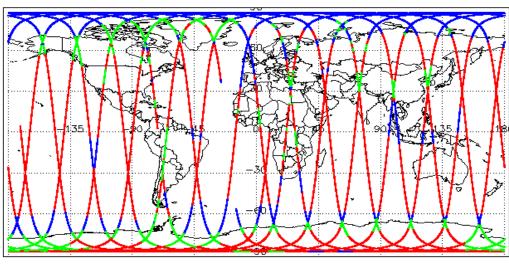
Mission / Instrument News		
07-Nov-2017	None	

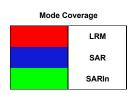
08-Nov-2017 None 09-Nov-2017 Nothing planned

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. GOP 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

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EQ. CPTL. SR. COPPIB. 2017 1100 T000 92. 2017 100 T100 100 100 100 100 100 100 100 10	Product CS_OFFI_SIR_GOPM1R_20171108T184302_20171108T190748_C001	Test Failed Power scaling error	There is an error in the scaling of the L1B waveform for one or more
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CS_OFFL_SIR_GOPRIB_20171108T13302T_20171108T13323T_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T142631_20171108T14350_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T142631_20171108T14350_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T16980_20171108T15133_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151734_20171108T151739_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151734_20171108T15732_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151734_20171108T1572_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163140_20171108T1572_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T163417_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T163417_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T1634694_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163632_00171108T173917_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T180382_00171108T173917_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T180382_00171108T139130_C001 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T1803634_C0011 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T206344_C0011 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T206344_C0011 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T24536_C017110	CS_OFFL_SIR_GOPR1B_20171108T123723_20171108T123852_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPRIB_20171108T142123_20171108T142128_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T144814_20171108T143530_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T144814_20171108T15137_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151754_20171108T151737_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151746_20171108T151737_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151746_20171108T151732_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T15413_2017108T154747_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T16321_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T163494_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T165645_20171108T165651_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T165645_20171108T165651_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T173828_20171108T1739T_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T193251_20171108T181157_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T192251_20171108T181157_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T2054452_20171108T20540_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T2054452_20171108T20540_CO01 Altitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T205252_20171108T223746_CO01 Altitude correction missing The attitude has not been corre	CS_OFFL_SIR_GOPR1B_20171108T124714_20171108T125457_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T142631_20171108T145254_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T144814_20171108T145254_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T151734_20171108T151373_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T151734_20171108T15173_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T151744_20171108T1572_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T152143_20171108T15274_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T16410_20171108T164321_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T164482_20171108T164954_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T164482_2017108T164954_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T165465_20171108T169561_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T173328_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T193328_20171108T193130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T120640_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20644_20171108T20640_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20640_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20640_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20640_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224550_20171108T224536_C001 Attitude	CS_OFFL_SIR_GOPR1B_20171108T133027_20171108T133231_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPRIB_20171108T144814_20171108T145254_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T15734_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151734_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T151744_20171108T151732_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T152143_20171108T15247_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T154110_20171108T163241_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T163417_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163264_20171108T163651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T1636565_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T173328_20171108T1737_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T137328_20171108T187137_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T1811616_20171108T181187_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T208232_2017108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T208232_20171108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T208523_20171108T20853_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T	CS_OFFL_SIR_GOPR1B_20171108T142123_20171108T142128_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T151734_20171108T151739_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T151734_20171108T151739_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T151734_20171108T152747_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T152134_20171108T152747_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T16152143_20171108T154321_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T16316_20171108T163417_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T166484_20171108T1665651_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T165645_20171108T170940_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T19328_20171108T173917_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T19328_20171108T173917_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T192525_20171108T193130_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T19255_20171108T193130_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20944_20171108T209404_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T20847_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T204552_20171108T224536_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224536_20171108T224536_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T229302_20171108T2295252_CO01 Attitude correction missing The attitude has not been co	CS_OFFL_SIR_GOPR1B_20171108T142631_20171108T143350_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T151734_20171108T151739_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T151746_20171108T15172_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T152143_20171108T154321_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T1631216_20171108T163412_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T163216_20171108T163417_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T163428_20171108T164954_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T165651_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T176562_20171108T17940_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T173282_20171108T173917_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T1913251_2017108T19157_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T1913251_2017108T1913130_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20544_20171108T20547_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20542_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20542_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20552_20171108T21138_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20553_20171108T214816_CO01 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225558_C00171108T225556_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T22558_20171108T225559_C001 Attitu	CS_OFFL_SIR_GOPR1B_20171108T144814_20171108T145254_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPRIB_20171108T151746_20171108T151752_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T152143_20171108T154321_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T163431_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T163216_20171108T163454_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T164848_20171108T164854_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T165645_20171108T165651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T170362_20171108T170940_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T1739T2_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T1910730_20171108T1913130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T20364_20171108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T21038_20171108T21138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T214552_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T223505_20171108T223436_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T223505_20171108T223436_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPRIB_20171108T223505_20171108T223505_C001 Attitude correction missing The attitude has not been corrected CS_OFFL	CS_OFFL_SIR_GOPR1B_20171108T150950_20171108T151037_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T152143_20171108T152747_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T163216_20171108T163417_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T16484B_20171108T164954_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T166645_20171108T166651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T170636_20171108T166651_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T170636_20171108T170636_2017108T170610 CS_OFFL_SIR_GOPR1B_20171108T170636_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T192251_20171108T195130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T192251_20171108T195130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20644_20171108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T20736_20171108T20840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T21052520_20171108T21138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223705_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223705_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223505_20171108T223505_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225536_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225536_20171108T22559_C001 Attitude	CS_OFFL_SIR_GOPR1B_20171108T151734_20171108T151739_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T154110_20171108T163245_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T165454_2011 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T165454_2011 Attitude correction missing The attitude has not been corrected The attitude has not been	CS_OFFL_SIR_GOPR1B_20171108T151746_20171108T151752_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T163216_20171108T163417_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T164848_20171108T164954_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T165645_20171108T170940_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T173828_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T191251_20171108T193130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T200644_20171108T200840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T211138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T211028_20171108T211138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T22356_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225456_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225946_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225946_20171108T22559_C001 Attitude correction	CS_OFFL_SIR_GOPR1B_20171108T152143_20171108T152747_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T164848_20171108T164954_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T17636_20171108T170940_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T173828_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T187917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T192251_20171108T193130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T200844_20171108T200840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T201036_20171108T2010847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T211028_20171108T21138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T214816_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223705_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223316_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224536_20171108T224510_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225322_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225322_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225322_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T231805_20171108T231932_C001 Attitude correction missing The attitude	CS_OFFL_SIR_GOPR1B_20171108T154110_20171108T154321_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T164848_20171108T164954_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T17636_20171108T170940_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T173828_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T187917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T192251_20171108T193130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T200844_20171108T200840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T201036_20171108T2010847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T211028_20171108T21138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T214816_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223705_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223316_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224536_20171108T224510_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225322_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225322_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225322_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T231805_20171108T231932_C001 Attitude correction missing The attitude	CS OFFL SIR GOPR1B 20171108T163216 20171108T163417 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T165645_20171108T170940_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T173828_20171108T173917_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T173828_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T192251_20171108T193130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T200644_20171108T200840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T211138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T21108T211138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T2214552_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223916_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224536_20171108T224510_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225045_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225946_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225946_20171108T22599_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225946_20171108T225192_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T23180			The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T170836_20171108T170940_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T193130_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T200844_20171108T200840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T21108Z2170108T21108T2101847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T21108Z2170108T21108T2108T2108T2108T2108T2108T2108		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T173828_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T2051_20171108T200840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T211028_20171108T211138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T214552_20171108T214816_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223705_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223705_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224536_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225045_20171108T225110_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225045_20171108T225110_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225232_20171108T225259_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225346_20171108T225259_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225346_20171108T231932_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T231835_20171108T231932_C001 Attitude correction missing The attitude has not been corrected		_	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T181016_20171108T181157_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T200644_20171108T200840_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T210736_20171108T210847_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T211028_20171108T211138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T214552_20171108T211138_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T214552_20171108T214816_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T223916_20171108T223740_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224536_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T224536_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225232_20171108T22559_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T2252946_20171108T220023_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T225946_20171108T230023_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_GOPR1B_20171108T231805_20171108T231932_C001 Attitude correction missing The attitude has not been corrected		-	
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CS_OFFL_SIR_GOPR1B_20171108T224536_20171108T224814_C001 Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected			
CS_OFFL_SIR_GOPR1B_20171108T225045_20171108T225110_C001 Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected The attitude has not been corrected The attitude has not been corrected			
CS_OFFL_SIR_GOPR1B_20171108T225232_20171108T225259_C001 Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected The attitude has not been corrected The attitude has not been corrected			
CS_OFFL_SIR_GOPR1B_20171108T225946_20171108T230023_C001 Attitude correction missing The attitude has not been corrected Attitude correction missing The attitude has not been corrected		_	
CS_OFFL_SIR_GOPR1B_20171108T231805_20171108T231932_C001 Attitude correction missing The attitude has not been corrected		_	
		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171108T232354_20171108T232754_C001 Attitude correction missing The attitude has not been corrected		Attitude correction missing	
	CS_OFFL_SIR_GOPR1B_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_GOPM1B_20171108T003217_20171108T010744_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171108T111854_20171108T115142_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171108T162245_20171108T163216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171108T211738_20171108T214551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T043656_20171108T043911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T051116_20171108T051244_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T052738_20171108T052924_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T061614_20171108T061817_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T084443_20171108T084733_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T093542_20171108T094028_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T105412_20171108T105611_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T160233_20171108T160545_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T165825_20171108T170435_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T174014_20171108T174428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171108T225740_20171108T225945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T010830_20171108T011517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T011947_20171108T013001_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T074733_20171108T074833_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T074905_20171108T075334_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T115142_20171108T115517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T123355_20171108T123432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T123852_20171108T124329_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T152143_20171108T152747_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171108T215907_20171108T220314_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP 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_GOPM_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_GOPM_2_20171107T235902_20171108T001439_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_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_GOPM_2_20171108T013518_20171108T015251_C001	Ocean 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
CS_OFFL_SIR_GOPM_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_GOPM_2_20171108T021201_20171108T024715_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_2_20171108T070039_20171108T070630_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T071013_20171108T073446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20171108T080604 20171108T081723 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T082258_20171108T083313_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 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_GOPM_2_20171108T084934_20171108T090955_C001		records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T092422_20171108T092632_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_2_20171108T102851_20171108T103253_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20171108T110411_20171108T110548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171108T111854_20171108T115142_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171108T115836_20171108T120347_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171108T120922_20171108T122533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171108T124329_20171108T124354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171108T125628_20171108T133027_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_2_20171108T163418_20171108T164848_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T165140_20171108T165644_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T165709_20171108T165824_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T170436_20171108T170635_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201711081172237_201711081172700_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_GOPM_2_20171108T172823_20171108T173214_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T181204_20171108T182740_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T183129_20171108T183601_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T184302_20171108T190748_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T194214_20171108T200643_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171108T200956_20171108T201502_C001	Ice Range Averaging Status	records.

CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPN_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_GOPR_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 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:

07

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_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_GOPM_2_20171108T002014_20171108T002523_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or morecords.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_2_20171108T034453_20171108T034836_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_2_20171108T043532_20171108T043656_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_2_20171108T051950_20171108T052737_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_2_20171108T065812_20171108T070025_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_GOPM_2_20171108T070039_20171108T070630_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_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_GOPM_2_20171108T084022_20171108T084443_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_GOPM_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_GOPM_2_20171108T094028_20171108T1011118_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_GOPM_2_20171108T101932_20171108T102510_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_GOPM_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_GOPM_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_GOPM_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.

	1	
CS_OFFL_SIR_GOPM_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_GOPM_2_20171108T120922_20171108T122533_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_GOPM_2_20171108T124329_20171108T124354_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_GOPM_2_20171108T125628_20171108T133027_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPM_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_GOPN_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_GOPR_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. GOP 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_GOP_2_20171108T183613_20171108T192552_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.

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171107T233509_20171108T002443_C001	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
C3_O11	Range Averaging Status	or more records.
CS_OFFL_SIR_GOP_2_20171108T002443_20171108T011423_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T011423_20171108T020357_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_GOP_220171108T020357_20171108T025336_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171108T025336_20171108T034310_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_GOP_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_GOP_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_GOP_220171108T052224_20171108T061203_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_GOP_220171108T061203_20171108T070138_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_GOP_220171108T070138_20171108T075117_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_GOP_2_20171108T075117_20171108T084051_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_GOP_220171108T084051_20171108T093031_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_GOP_220171108T093031_20171108T102005_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T102005_20171108T110944_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_GOP_2_20171108T110944_20171108T115918_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_GOP_2_20171108T115918_20171108T124858_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_GOP_2_20171108T124858_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_GOP_2_20171108T133832_20171108T142811_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_GOP_2_20171108T142811_20171108T151745_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_GOP_2_20171108T151745_20171108T160725_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T160725_20171108T165659_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_GOP_2_20171108T165659_20171108T174638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T183613_20171108T192552_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T192552_20171108T201526_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_GOP_220171108T201526_20171108T210506_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_GOP_220171108T210506_20171108T215440_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_GOP_220171108T215440_20171108T224419_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_GOP_220171108T224419_20171108T233353_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_GOP_2_20171108T233353_20171109T002333_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171107T233509_20171108T002443_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_GOP_2_20171108T002443_20171108T011423_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_GOP_2_20171108T011423_20171108T020357_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_GOP_2_20171108T020357_20171108T025336_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_GOP_2_20171108T025336_20171108T034310_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_GOP_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_GOP_2_20171108T043250_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_GOP_2_20171108T052224_20171108T061203_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_GOP_2_20171108T061203_20171108T070138_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_GOP_2_20171108T070138_20171108T075117_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_GOP_2_20171108T075117_20171108T084051_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_GOP_2_20171108T084051_20171108T093031_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_GOP_2_20171108T093031_20171108T102005_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_GOP_2_20171108T102005_20171108T110944_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_GOP_2_20171108T110944_20171108T115918_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_GOP_2_20171108T115918_20171108T124858_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_GOP_2_20171108T124858_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_GOP_2_20171108T133832_20171108T142811_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_GOP_2_20171108T142811_20171108T151745_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_GOP_2_20171108T151745_20171108T160725_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_GOP_2_20171108T160725_20171108T165659_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_GOP_2_20171108T165659_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_GOP_2_20171108T183613_20171108T192552_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_GOP_2_20171108T192552_20171108T201526_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_GOP_2_20171108T201526_20171108T210506_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_GOP_2_20171108T210506_20171108T215440_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_GOP_2_20171108T215440_20171108T224419_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_GOP_2_20171108T224419_20171108T233353_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_GOP_2_20171108T233353_20171109T002333_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors: 26

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171108T002443_20171108T011423_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T011423_20171108T020357_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T020357_20171108T025336_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171108T025336_20171108T034310_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_2_20171108T034310_20171108T043250_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T043250_20171108T052224_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T061203_20171108T070138_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T070138_20171108T075117_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T075117_20171108T084051_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T084051_20171108T093031_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T093031_20171108T102005_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T102005_20171108T110944_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T110944_20171108T115918_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T115918_20171108T124858_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T124858_20171108T133832_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T133832_20171108T142811_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T142811_20171108T151745_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T151745_20171108T160725_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T160725_20171108T165659_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T165659_20171108T174638_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T183613_20171108T192552_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T192552_20171108T201526_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171108T201526_20171108T210506_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171108T210506_20171108T215440_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171108T215440_20171108T224419_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171108T224419_20171108T233353_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.