



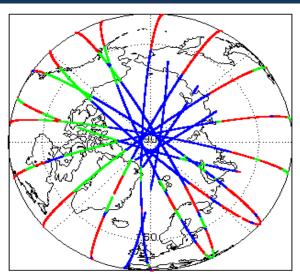
1. Overview

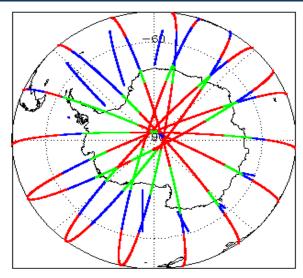
Report Production:	12-Dec-2017		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data		

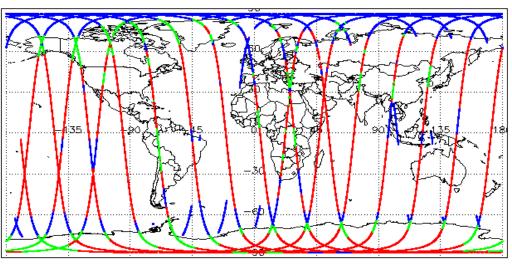
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
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

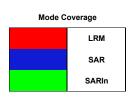
Mission / Instrument News	
05-Nov-2017	None
06-Nov-2017	Ocean Baseline-C TTO on 6-Nov-2017 at ~08:00:00. L1 & L2 data before this will be reprocessed at a later date.
07-Nov-2017	Nothing planned

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:

0

4.5 L1B Measurement Confidence Data Check

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

Number of products with errors:

49

Product	Test Failed	Description
CS_OFFL_SIR_GOPR1B_20171106T001708_20171106T002114_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T012214_20171106T013228_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T025036_20171106T025122_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T025217_20171106T025750_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T030213_20171106T030244_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T032202_20171106T032208_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T040824_20171106T041025_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T043012_20171106T043646_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T075132_20171106T075555_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T081949_20171106T082523_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T083544_20171106T083822_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T084958_20171106T085159_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T092859_20171106T093806_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T102853_20171106T103116_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T103521_20171106T103948_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T105559_20171106T105637_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T110222_20171106T110539_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T110805_20171106T110831_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T110924_20171106T111711_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T123623_20171106T123729_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T124114_20171106T124554_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T124622_20171106T124837_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T134628_20171106T135014_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T142350_20171106T142421_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T142858_20171106T143618_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T151217_20171106T151305_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T152013_20171106T152019_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T152410_20171106T152710_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T154336_20171106T154537_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T160812_20171106T161521_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T165119_20171106T165221_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T165901_20171106T165904_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T165912_20171106T165917_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T170936_20171106T171255_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T174657_20171106T175350_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T180744_20171106T180816_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T180941_20171106T181204_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T181204_20171106T181245_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T181256_20171106T181447_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T192519_20171106T193352_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T202228_20171106T202508_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T210211_20171106T210954_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T220135_20171106T220540_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T224803_20171106T225040_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T225459_20171106T225518_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T225932_20171106T230000_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T230213_20171106T230252_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T232043_20171106T232214_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171106T234017_20171106T234402_C001	Attitude correction missing	The attitude has not been corrected

4.6 L1B Waveform Group Data Check

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

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

Test Failed	Description
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
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Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo

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:

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: 53

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171106T081017_20171106T081949_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T082523_20171106T083544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T084248_20171106T084705_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T085159_20171106T091728_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T092651_20171106T092858_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T094303_20171106T095902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T100119_20171106T101344_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T102159_20171106T102738_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T103116_20171106T103521_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T110640_20171106T110804_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T112114_20171106T115405_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T120103_20171106T120614_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T121150_20171106T122753_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

SS_DEP_SR_GONU_2 20171108T134182_0171108T1340C_0011 CS_OFF_SR_GONU_2 20171108T134182_0171108T1340C_0011 CS_OFF_SR_GONU_2 20171108T134182_0171108T1340C_0011 CS_OFF_SR_GONU_2 20171108T134182_0171108T1340C_0011 CS_OFF_SR_GONU_2 20171108T134182_0171108T1340C_0011 CS_OFF_SR_GONU_2 20171108T134182_0171108T1341C_0011 CS_OFF_SR_GONU_2 20171108T13418_0171108T1341C_0011 CS_OFF_SR_GONU_2 20171108T1341C_0011 CS_OFF_SR_GONU_2 20171108T1341	CS_OFFL_SIR_GOPM_2_20171106T125859_20171106T133256_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
SOFFL, SIR, GOPM 2, 20171105T14915, 20171105T149200, CO01 Cooken Range Averaging Status Cooken Range Averaging Status The Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Cooken Range Averaging Status The Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status Flag has been set for one or more record. Cooken Range Averaging Status	CS_OFFL_SIR_GOPM_2_20171106T133847_20171106T134102_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
SOUTH_SER_COME_2.0017106T145840_0001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T145840_0001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T145810_0001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T145810_0001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T155800_001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T155800_001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T15587.001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T15587.001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T15587.001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T15587.001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T15589.001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T15589.001 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more The Cosan Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more CS_OFF_SER_COME_2.0017106T175800_0011 Ocean Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more The Cosan Range Averaging Status The Cosan Range Averaging Status Flag has been set for one or more The Cosan Range Averaging Status The Cosan Range Averaging Status Flag has	CS_OFFL_SIR_GOPM_2_20171106T134108_20171106T134520_C001	Ice Range Averaging Status	
Court Figs (Compt 2_20171101144938_2017101144970_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_201711011144771_20171101152255 CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114471_20171101152255 CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114291_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_20171101114292_CO01) Cocon Range Averaging Status The Cocon Range Averaging Status Filig has been set for one or more cocods. Cocon Figs R. (Compt 2_201711011144191_	CS_OFFL_SIR_GOPM_2_20171106T135015_20171106T141551_C001	Ocean Range Averaging Status	
S. OFFL, SIR, COPM 2_201710F1164582 1201710F11520F2 CODI CS. OFFL, SIR, COPM 2_2017110F11521F2 CODI CS. OFFL, SIR, COPM 2_2017110F11520F2 CODI CS. OFFL	CS_OFFL_SIR_GOPM_2_20171106T141615_20171106T142340_C001	Ocean Range Averaging Status	
See Perfusing Comp. 2017/1106171201220171001 (1973)	CS_OFFL_SIR_GOPM_2_20171106T143846_20171106T145040_C001	Ocean Range Averaging Status	
SO FFEL SR. COPM_2 20171106T105109_20171106T105202_0001 CS OFFL_SR. GOPM_2 20171106T10511_2017106T105109_00017106T105121_0001 CS OFFL_SR. GOPM_2 20171106T10511_2017106T105109_00017106T10511_00017106T105109_00017106T105109_00017106T105109_00017106T10510_000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20171106T145521_20171106T145700_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_GOPM_2_20171106T19425_20171106T20911_CO01 CS_OFFL_SIR_GOPM_2_20171106T205269_20171106T203542_CO01 CS_OFFL_SIR_GOPM_2_20171106T205269_20171106T205112_CO01 CS_OFFL_SIR_GOPM_2_20171106T205269_20171106T205112_CO01 CS_OFFL_SIR_GOPM_2_20171106T205269_20171106T205112_CO01 CS_OFFL_SIR_GOPM_2_20171106T205269_20171106T205112_CO01 CS_OFFL_SIR_GOPM_2_20171106T205216_20171106T205112_CO01 CS_OFFL_SIR_GOPM_2_20171106T205216_20171106T205507_CO01 CS_OFFL_SIR_GOPM_2_20171106T205216_20171106T205607_CO01 CS_OFFL_SIR_GOPM_2_20171106T205222_20171106T214818_CO01 CS_OFFL_SIR_GOPM_2_20171106T215203_20171106T215642_CO01 CS_OFFL_SIR_GOPM_2_20171106T205241_20171106T205809_CO01 CS_OFFL_SIR_GOPM_2_20171106T205241_20171106T223804_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T225218_CO01 CS_OFFL_SIR_GOPM_2_20171106T23247_20171106T232455_CO01 CS_OFFL_SIR_GOPM_2_20171106T23247_20171106T232455_CO01 CS_OFFL_SIR_GOPM_2_20171106T233708_CO01 CS_OFFL_SIR_GOPM_2_20171106T233747_20171106T233708_CO01 CS_OFFL_SIR_GOPM_2_20171106T233403_20171107000517_CO01 CS_OFFL_SIR_GOPM_2_20171106T1232403_20171106T1023260_CO01 CS_OFFL_SIR_GOPM_2_20171106T1073403_20171106T1001010_CO01 CS_OFFL_SIR_GOPM_2_20171106T1073403_20171106T1001016_CO01 CS_OFFL_SIR_GOPM_2_20171106T1073403_20171106T1001016_CO01 CG_OFFL_SIR_GOPM_2_20171106T1073403_20171106T1001016_CO01 CG_OFFL_SIR_GOPM_2_20171106T1073403_20171106T1001018_CO01 CG_OFFL_SIR_GOPM_2_20171106T1073403_20171106T1001018_CO01 CG_OFFL_SIR_GOPM_2_20171106T1073403_20171106T1001018_CO01 CG_OFFL_SIR_GOPM_2_20171106T003012_20171106T1001018_CO01 CG_OFFL_SIR_GOPM_2_20171106T003012_20171106T1001018_CO01 CG_OFFL_SIR_GOPM_2_20171106T003012_20171106T1001018_CO01 CG_OFFL_SIR_GOPM_2_2017110	CS_OFFL_SIR_GOPM_2_20171106T183350_20171106T183827_C001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOPM_2_20171106T212222_20171106T215642_CO01 CS_OFFL_SIR_GOPM_2_20171106T215203_20171106T215642_CO01 CS_OFFL_SIR_GOPM_2_20171106T215203_20171106T215642_CO01 CS_OFFL_SIR_GOPM_2_20171106T22541_20171106T223804_CO01 CS_OFFL_SIR_GOPM_2_20171106T22541_20171106T225318_CO01 CS_OFFL_SIR_GOPM_2_20171106T2252040_20171106T225318_CO01 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T225318_CO01 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T232455_CO01 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T233708_CO01 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_CO01 CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_CO01 CS_OFFL_SIR_GOPM_2_20171106T115745_20171106T120102_CO01 CS_OFFL_SIR_GOPM_2_20171106T115745_20171106T120102_CO01 CS_OFFL_SIR_GOPM_2_20171106T115745_20171106T192518_CO01 CS_OFFL_SIR_GOPM_2_20171106T043012_20171106T192518_CO01 CS_OFFL_SIR_GOPM_2_20171106T043012_20171106T043646_CO01 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_CO01 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_CO01 CS_OFFL_SIR_GOPR_2_20171106T045095002_20171106T105170_CO01 CS_OFFL_SIR_GOPR_2_20171106T045095002_20171106T105170_CO01 CS_OFFL_SIR_GOPR_2_20171106T045095002_20171106T105170_CO01 CS_OFFL_SIR_GOPR_2_20171106T0450102_20071 CCS_OFFL_SIR_GOPR_2_20171106T0450402_20171106T043646_CO01 CS_OFFL_SIR_GOPR_2_20171106T0450102_20171106T043646_CO01 CS_OFFL_SIR_GOPR_2_20171106T0450102_20171106T043646_CO01 CCS_OFFL_SIR_GOPR_2_20171106T0450102_20171106T043646_CO01 CCS_OFFL_SIR_GOPR_2_20171106T0450102_20171106T043646_CO01 CCS_OFFL_SIR_GOPR_2_20171106T0450102_20171106T043646_CO01 CCS_OFFL_SIR_GOPR_2_20171106T0450102_20171106T0450112_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_20171106T0450102_2	CS_OFFL_SIR_GOPM_2_20171106T204117_20171106T205112_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20171106T215203_20171106T215642_C001 CS_OFFL_SIR_GOPM_2_20171106T225041_20171106T223804_C001 CS_OFFL_SIR_GOPM_2_20171106T225040_20171106T223804_C001 CS_OFFL_SIR_GOPM_2_20171106T225040_20171106T225318_C001 CS_OFFL_SIR_GOPM_2_20171106T225040_20171106T225318_C001 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T2232455_C001 CS_OFFL_SIR_GOPM_2_20171106T233215_20171106T232455_C001 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001 CS_OFFL_SIR_GOPM_2_20171106T2334403_20171107T000517_C001 CS_OFFL_SIR_GOPM_2_20171106T1534403_20171107T000517_C001 CS_OFFL_SIR_GOPM_2_20171106T1534403_20171106T120102_C001 CS_OFFL_SIR_GOPM_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPM_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T055900_20171106T105118_C001 CS_OFFL_SIR_GOPR_2_20171106T055900_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T0551410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T0551410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T05514106T105118_C001 CCS_OFFL_SIR_GOPR_2_20171106T055002_20171106T105118_C001 CCS_OFFL_SIR_GOPR_2_20171106T055002_2	CS_OFFL_SIR_GOPM_2_20171106T205216_20171106T205607_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20171106T22504_20171 OFT22504_2017 Ocean Range Averaging Status CS_OFFL_SIR_GOPM_2_20171106T22504_20171106T225318_CO01 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T232455_CO01 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T232455_CO01 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T232708_CO01 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_CO01 CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_CO01 CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_CO01 CS_OFFL_SIR_GOPM_2_20171106T192192_20171106T192102_CO01 CS_OFFL_SIR_GOPM_2_20171106T192192_20171106T192518_CO01 CS_OFFL_SIR_GOPM_2_20171106T192192_20171106T192518_CO01 CS_OFFL_SIR_GOPM_2_20171106T043012_20171106T043646_CO01 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_CO01 CS_OFFL_SIR_GOPR_2_20171106T045095902_20171106T100118_CO01 CS_OFFL_SIR_GOPR_2_20171106T055902_20171106T152710_CO01 CS_OFFL_SIR_GOPR_2_20171106T055902_20171106T152710_CO01 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_CO01 CS_OFFL_SIR_GOPR_2_201	CS_OFFL_SIR_GOPM_2_20171106T212222_20171106T214818_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20171106T225040_20171106T225318_C001 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T232455_C001 CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T232455_C001 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001 CS_OFFL_SIR_GOPM_2_20171106T2334403_20171107T000517_C001 CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_C001 CS_OFFL_SIR_GOPM_2_20171106T15745_20171106T120102_C001 CS_OFFL_SIR_GOPM_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPM_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 COEAN Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status	CS_OFFL_SIR_GOPM_2_20171106T215203_20171106T215642_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20171106T23215_20171106T232455_C001 CS_OFFL_SIR_GOPM_2_20171106T23215_20171106T232455_C001 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001 CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001 CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_C001 CS_OFFL_SIR_GOPM_2_20171106T15745_20171106T120102_C001 CS_OFFL_SIR_GOPN_2_20171106T115745_20171106T120102_C001 CS_OFFL_SIR_GOPN_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPN_2_20171106T043012_20171106T192518_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T1043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 CC_OCAN Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOPM_2_20171106T220541_20171106T223804_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001 Ice Range Averaging Status CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_C001 CS_OFFL_SIR_GOPM_2_20171106T115745_20171106T120102_C001 CS_OFFL_SIR_GOPN_2_20171106T115745_20171106T120102_C001 CS_OFFL_SIR_GOPN_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPN_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T052410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T052410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T052410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T311106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T311112_C001 CCS_OFFL_SIR_GOPR_2_20171106T31111111111111111111111111111111111	CS_OFFL_SIR_GOPM_2_20171106T225040_20171106T225318_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_C001 CS_OFFL_SIR_GOPM_2_20171106T115745_20171106T120102_C001 CS_OFFL_SIR_GOPN_2_20171106T115745_20171106T120102_C001 CS_OFFL_SIR_GOPN_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPN_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CCS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CCS_OFFL_SIR_GOPR_2_20171106T095902_20171106T10011920111106T095902 CCS_OFFL_SIR_GOPR_2_20171106T095902_20171106T10011111106T095902 CCS_OFFL_SIR_GOPR_2_20171106T095902 CCS_OFFL_SIR_GOPR_2_20171106T095902 C	CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T232455_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPN_2_20171106T15745_20171106T192518_C001 CS_OFFL_SIR_GOPN_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T05902_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T311112_C001 CCG_OFFL_SIR_GOPR_2_20171106T31111111111111111111111111111111111	CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOPN_2_20171106T192129_20171106T192518_C001 CS_OFFL_SIR_GOPN_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T05410_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T311000_20171106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T3111000_20171106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311000_20171106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311000_20171106T311112_C001 CS_OFFL_SIR_GOPR_2_20171106T311000_20171106T311112_C001	CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_20171106T192129_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOPN_2_20171106T115745_20171106T120102_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_20171106T045012_20171106T1043040_C001 CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOPN_2_20171106T192129_20171106T192518_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_20171106T1093902_20171106T100T18_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_201711061152410_201711061152710_C001 OCean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOPR_2_20171106T095902_20171106T100118_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_GOPR_2_20171106T211000_20171106T211112_C001	Ocean Range Averaging Status	

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
		The SWH and Ocean Averaging Status Flags have been set for one or more records.
	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171106T084248_20171106T084705_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T085159_20171106T091728_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T092651 20171106T092858 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T094303_20171106T095902_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T100119_20171106T101344_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T102159_20171106T102738_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T103116_20171106T103521_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR GOPM 2 20171106T110640 20171106T110804 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T112114 20171106T115405 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T120103_20171106T120614_C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPM_2_20171106T121150_20171106T122753_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T124555_20171106T124622_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T125859_20171106T133256_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T133847_20171106T134102_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T134108_20171106T134520_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T135015_20171106T141551_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T141615 20171106T142340 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T143846_20171106T145040_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPM_2_20171106T145521_20171106T145700_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T145717 20171106T151217 C001 **Backscatter Averaging Status** more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T151441_20171106T152000_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T152019_20171106T152225_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T153114 20171106T154336 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T154537_20171106T160303_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T162511 20171106T163441 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T163643 20171106T165119 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20171106T165406 20171106T165901 C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPM_2_20171106T170707_20171106T170936_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPM_2_20171106T172504_20171106T173045_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T173049_20171106T173802_C001 more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T173926 20171106T174100 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T181448_20171106T183004_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T183350_20171106T183827_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T184526 20171106T191923 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T194425_20171106T200911_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T201224_20171106T201728_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T201748_20171106T202112_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T202509_20171106T203542_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T204117 20171106T205112 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T205216 20171106T205607 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T212222_20171106T214818_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T215203_20171106T215642_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20171106T220541 20171106T223804 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T225040_20171106T225318_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T232215_20171106T232455_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20171106T233147_20171106T233708_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20171106T234403_20171107T000517_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPN 2 20171106T115745 20171106T120102 C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPN_2_20171106T192129_20171106T192518_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPR_2_20171106T043012_20171106T043646_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPR 2 20171106T095902 20171106T100118 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPR_2_20171106T152410_20171106T152710_C001 Backscatter Averaging Status 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:

Ω

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

Λ

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:

0

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:

_

6.6 P2P Range Measurement Check

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

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

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

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

Number of products with errors:

19

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171106T075343_20171106T084318_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_20171106T084318_20171106T093257_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T093257_20171106T102232_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_20171106T102232_20171106T111211_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_20171106T111211_20171106T120145_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_20171106T120145_20171106T125124_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_20171106T125124_20171106T134059_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T134059_20171106T143038_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_20171106T143038_20171106T152012_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_20171106T152012_20171106T160951_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_20171106T160951_20171106T165926_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_20171106T165926_20171106T174905_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T174905_20171106T183839_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_20171106T183839_20171106T192818_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T192818_20171106T201753_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_20171106T201753_20171106T210732_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_20171106T210732_20171106T215707_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_220171106T215707_20171106T224646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T224646_20171106T233620_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.

Number of products with errors:

19

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171106T075343_20171106T084318_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_20171106T084318_20171106T093257_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_20171106T093257_20171106T102232_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_20171106T102232_20171106T111211_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_20171106T111211_20171106T120145_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_20171106T120145_20171106T125124_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_20171106T125124_20171106T134059_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_20171106T134059_20171106T143038_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_20171106T143038_20171106T152012_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_20171106T152012_20171106T160951_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_20171106T160951_20171106T165926_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_20171106T165926_20171106T174905_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_20171106T174905_20171106T183839_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_20171106T183839_20171106T192818_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_20171106T192818_20171106T201753_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_20171106T201753_20171106T210732_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_20171106T210732_20171106T215707_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_20171106T215707_20171106T224646_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_20171106T224646_20171106T233620_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: 17

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171106T075343_20171106T084318_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T084318_20171106T093257_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T093257_20171106T102232_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T102232_20171106T111211_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171106T111211_20171106T120145_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T120145_20171106T125124_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T125124_20171106T134059_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T143038_20171106T152012_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T152012_20171106T160951_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T160951_20171106T165926_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T165926_20171106T174905_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T183839_20171106T192818_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T192818_20171106T201753_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T201753_20171106T210732_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171106T210732_20171106T215707_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171106T215707_20171106T224646_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.