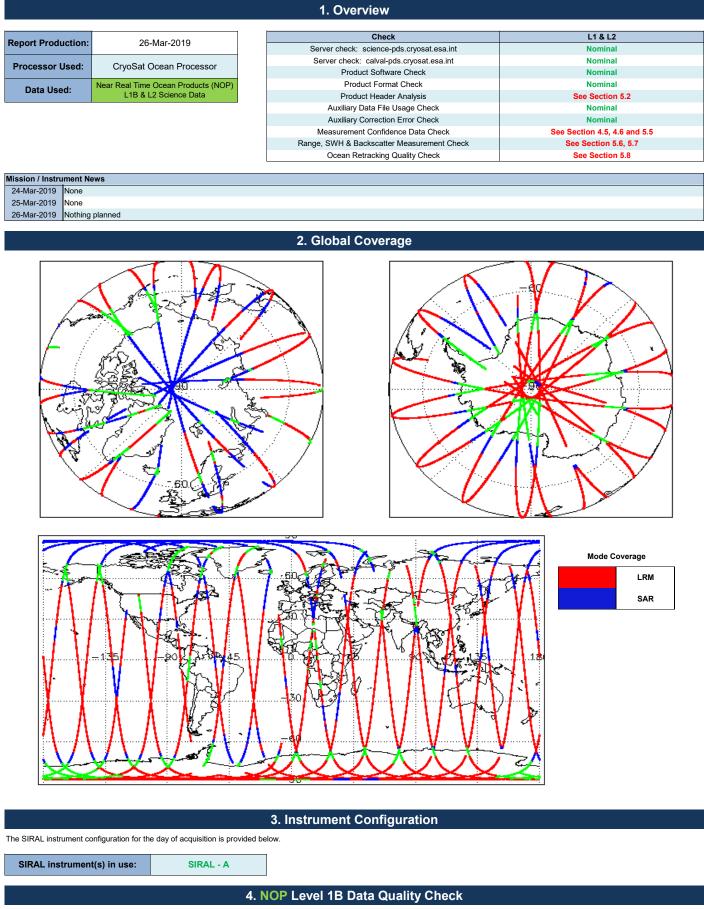


IDEAS+ Daily Report for NOP data:

25/03/2019





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).

0

Number of products with errors:

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.
Number of products with errors:
0

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.

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

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.

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.

Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.
Number of products with errors:
1

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190325T030256_20190325T031742_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

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.

12

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190325T021032_20190325T021157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190325T035005_20190325T041047_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190325T065154_20190325T071750_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190325T090731_20190325T090925_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190325T124054_20190325T131432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190325T172250_20190325T172306_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190325T023819_20190325T023940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190325T031826_20190325T032301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190325T042154_20190325T042401_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190325T055650_20190325T060148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190325T122501_20190325T122535_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190325T123034_20190325T123819_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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).

1

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.

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190325T030256_20190325T031742_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. 77

Display Instructional System Instructional System Instructional System Display	Product	Test Failed	Description
City, City, City, City, City, 20190057100059, 20190371101012, 20190 Name Range Awaraging Balan The City Range R			The Ocean Range Averaging Status Flag has been set for one or more
C9 C941, S44, NOPM 2, 20190320110347, 20190320110477 (2011) Cears Range Averaging Sease. The Class Range	CS OFFL SIR NOPM 2 20190325T000336 20190325T000832 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS (GHL BIN NOM 2 2018022101192 2019322101300 COST Open Kanga Awaga Balan The Coan Kanga Awaga Balan Flag task base will for use mane cost. CS (GHL BIN NOM 2 2018022101302 201932101300 COST Open Kanga Awaga Balan Flag task base will for use mane hands. The Coan Kanga Awaga Balan Flag task base will for use mane hands. CS (GHL BIN NOM 2 2018022101202 2019321012102 COST Open Kanga Awaga Balan Flag task base will for use mane hands. The Coan Kanga Awaga Balan Flag task base will for use mane hands. CS (GHL BIN NOM 2 2018022101202 2019321012102 COST Open Kanga Awaga Balan Flag task base will for use mane hands. The Coan Kanga Awaga Balan Flag task base will for use mane hands. CS (GHL BIN NOM 2 201802210202 2019321012102 COST Open Kanga Awaga Balan Flag task base will for use mane hands. The Coan Kanga Awaga Balan Flag task base will for use mane hands. CS (GHL BIN NOM 2 2018022102020 20193210120001 COST Open Kanga Awagag Balan Flag task base will for use mane hands. The Coan Kanga Awagag Balan Flag task base will for use mane hands. CS (GHL BIN NOM 2 201802210120320 20193210120400 COST Open Kanga Awagag Balan Flag task base will for use mane hands. The Coan Kanga Awagag Balan Flag task base will for use mane hands. CS (GHL BIN NOM 2 201802210120320 20193210120400 COST Open Kanga Awagag Balan Flag task base will for use mane hands. The Coan Kanga Awagag Balan Flag task base will for use mane hands. CS (GHL BIN NOM 2 2018022101203200000000000000000000000000	CS OFFL SIR NOPM 2 20190325T001347 20190325T004717 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
S2. OFL_SR_NOM_2.20100321101982_0119822_001 Clean Rarge Averaging Status The Own Rarge Averaging Status Flags Averaging Status			The Ocean Range Averaging Status Flag has been set for one or more
CorrL, Sin, NOML 2. 2019225102462, 20180251120152, 2010 Deen Hange Averaging Status The Class Rage Averaging Status Flag has been set for ore in more income. CS, OFL, Sin, NOML 2. 2019225102462, 20180251120152, 2010 Deen Range Averaging Status The Class Rage Averaging Status Flag has been set for ore in more income. CS, OFL, Sin, NOML 2. 2019225102462, 20180251120152, 2010 Deen Range Averaging Status The Class Rage Averaging Status Flag has been set for ore in more income. CS, OFL, Sin, NOML 2. 2019225102462, 20180251120152, 2010 Deen Range Averaging Status The Class Rage Averaging Status Flag has been set for ore in more income. CS, OFL, Sin, NOML 2. 20192251120162, 20180251120152, 2010 Deen Range Averaging Status The Class Rage Averaging Status Flag has been set for ore in more income. CS, OFL, Sin, NOML 2. 20192251120162, 20180251120152, 20110251120152, 201102551120152, 201102551120152, 20110251120152, 201102551120152, 201102551120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 20110251120152, 201102511120142, 201102521112014, 201102511120142, 20110251120152, 201102			
C5. OFTL SR, NOM 2. 20160251702162, 00100 Overs Range Averaging Satus The Overs Range Averaging Satus The Overs Range Averaging Satus C6. OFTL SR, NOM 2. 20160251701620, 0100051701620, 0100 Overs Range Averaging Satus The Overs Range Averaging Satus The Overs Range Averaging Satus C6. OFTL SR, NOM 2. 20160251701620, 0100051700270, 0200 Overs Range Averaging Satus The Overs Range Averaging Satus The Overs Range Averaging Satus C6. OFTL SR, NOM 2. 20160251701620, 01100551700270, 00100551700270, 01			
CS_OPTL_SR_NORM_2_20100325T021052_20100325T021052 Colum Range Averaging Salas The Colum Range Averaging S			
Corp. Bit. North 2, 2010032701001001002002 Colora Name Analys Analoging Salasa excode. CS, OFFL, BIK, NORH 2, 20100327021040, 2010032702440, 2010010000000000000000000000000000000			
Control Income Income Control Sint Marge Averaging Salata The log Brange Averaging Salata <td< td=""><td></td><td></td><td>records.</td></td<>			records.
CS_CPT_USIN_CNUM_2_2010023210001_000000 Does Range Averaging Status The Overs Range Averaging Status Flag has been set for one or more more flag. CS_CPT_USIN_CNUM_2_2010023210001_2010002 Does Range Averaging Status The Overs Range Averaging Status Flag has been set for one or more more more flag. CS_CPT_USIN_CNUM_2_2010023210001_000021000100 Does Range Averaging Status The Overs Range Averaging Status Flag has been set for one or more more more flag. CS_CPT_USIN_CNUM_2_20100232100012_0100021000100 Does Range Averaging Status The Overs Range Averaging Status Flag has been set for one or more more flag. CS_CPT_USIN_CNUM_2_20100232100012_0100021000010_000012010404(U_C001) Does Range Averaging Status The Overs Range Averaging Status Flag has been set for one or more more flag. CS_CPT_USIN_CNUM_2_20100232100001_000023104040(U_C001) Does Range Averaging Status The Overs Range Averag	CS_OFFL_SIR_NOPM_2_20190325T021638_20190325T022456_C001	Ocean Range Averaging Status	records.
LG, DH, Jan Yuong, Johnson LG, DH, Jan JL, Huong JL, Huong JL, Huong JL, Huong JL, Jan	CS_OFFL_SIR_NOPM_2_20190325T023940_20190325T024237_C001	Ice Range Averaging Status	records.
Control Control Control Control Control Control Site No. PML 2, 20100221002402, 2010022100240 Too Range Averaging Status The Control Control Site No. PML 2, 20100221002402, 2010022100240 Too Range Averaging Status The Control Range Averaging Status The Con	CS_OFFL_SIR_NOPM_2_20190325T024507_20190325T030041_C001	Ocean Range Averaging Status	records.
Corr Lisk Norm 2, 20190221002051 02090 2019025103150, 20190225103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 2019025103150, 20190251041047, 2001 Leads Arranging Status Figure Arranging Status	CS_OFFL_SIR_NOPM_2_20190325T030256_20190325T031742_C001	Ocean Range Averaging Status	records.
CS_OFF_SIN_NOM_2_00190325103332_00190325103462_0001 Down Range Averaging Status incode. CS_OFF_SIN_NOM_2_00190325103332_00190325104462_0001 Down Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status CS_OFF_SIN_NOM_2_00190325104262_00190325104374_0001 Down Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status CS_OFF_SIN_NOM_2_00190325104274_0001 Down Range Averaging Status The Ocean Range Averaging Status	CS_OFFL_SIR_NOPM_2_20190325T032437_20190325T032649_C001	Ice Range Averaging Status	records.
Cell OFFL, SIR, NOPM 2, 20190325103002, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325104042, 20190325105030, 20190, 20190325105030, 20190, 20190325105030, 20190, 20190325105030, 20190, 20190325105030, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190, 20190325100350, 20190325110360, 20190325110360, 20190325110360, 20190325110360, 20190325110360, 20190325110360, 20190325110360, 20190325110360, 20190325110360, 20190325110360, 20190325	CS_OFFL_SIR_NOPM_2_20190325T032733_20190325T033150_C001	Ice Range Averaging Status	records.
CS, OFFL, SIR, NOFM 2, 20190325103210437142, 2019032510321043746, 2001 Orean Range Averaging Status CS, OFFL, SIR, NOFM 2, 2019032510422, 201903251043746, 2001 CS, OFFL, SIR, NOFM 2, 2019032510422, 201903251051052, 2001 Lee Range Averaging Status The for Range Averaging Status The for Range Averaging Status CS, OFFL, SIR, NOFM 2, 20190325105122, 20190325105353, 2001 Ocean Range Averaging Status The for Range Averaging Status The for Range Averaging Status The for Range Averaging Status CS, OFFL, SIR, NOFM 2, 20190325105125, 2019 CS, OFFL, SIR, NOFM 2, 20190325105152, 20190325105350, 2001 Ocean Range Averaging Status The for Range Averaging Status CS, OFFL, SIR, NOFM 2, 20190325105412, 20190325105450, 2001 Lee Range Averaging Status The Ocean Range Averaging Status CS, OFFL, SIR, NOFM 2, 20190325105412, 20190325105450, 2001 Lee Range Averaging Status The Ocean Range Averaging Status CS, OFFL, SIR, NOFM 2, 20190325105412, 20190325106450, 2001 Lee Range Averaging Status The Ocean Range Averaging Status CS, OFFL, SIR, NOFM 2, 20190325105412, 201903251064150, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106431, 20190325106432, 20190325106431, 20190325106432, 20190325106431, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 20190325106432, 2019032510644, 2019032510642, 2019032510642, 2019032510642, 2019032510642, 2019032510642, 2019032510642, 2019032510642, 2019032510644, 2019032510642, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032510644, 2019032511064, 2001 Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averag	CS_OFFL_SIR_NOPM_2_20190325T033325_20190325T034826_C001	Ocean Range Averaging Status	
CS_OFF_SIN_NOPM_2_D1003251002301023700300_C001 Ocean Range Averaging Satus moords. CS_OFF_SIN_NOPM_2_D100325100325100302_C001 Ocean Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D10032510032510031032_C001 Ocean Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D10032510032510031032_C001 Ocean Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D100325106415_D1003251064100_C001 Ice Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D100325106414_D1003251064100_C001 Ocean Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D1003251005414_D1003251005410_C001 Ocean Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D100325100310_D1003251005403_C001 Ocean Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D1003251100320_D100325100302_D1001 Ocean Range Averaging Satus The Ocean Tange Averaging Satus Flag has been set for one or more exceds. CS_OFF_SIN_NOPM_2_D1003251100320_D100325100302_D1001 Ocean Range Averaging Satus <td>CS_OFFL_SIR_NOPM_2_20190325T035005_20190325T041047_C001</td> <td>Ocean Range Averaging Status</td> <td></td>	CS_OFFL_SIR_NOPM_2_20190325T035005_20190325T041047_C001	Ocean Range Averaging Status	
Cost, DFL, Sin, NOPM, 2, 201903251003251003251051062_001 Codem Range Averaging Slatus Tecoda C6_OFFL_SIN, NOPM, 2, 201903251001325 Codem Range Averaging Slatus The loc Range Averaging Slatus Flag has been set for one or more records. C6_OFFL_SIN, NOPM, 2, 201903251001375, 201903251003050_0001 Coeam Range Averaging Slatus The loc Range Averaging Slatus Flag has been set for one or more records. C6_OFFL_SIN, NOPM, 2, 201903251001375, 20190325100305_0001 Coeam Range Averaging Slatus The loc Range Averaging Slatus Flag has been set for one or more records. C6_OFFL_SIN, NOPM, 2, 20190325100137_0140325100400_0001 Loc Range Averaging Slatus The Coean Range Averaging Slatus Flag has been set for one or more records. C6_OFFL_SIN, NOPM, 2, 20190325100515_0140325100401_0001 Coean Range Averaging Slatus The Coean Range Averaging Slatus Flag has been set for one or more records. C6_OFFL_SIN, NOPM, 2, 20190325100352510032510032510032510003251000325001 Coean Range Averaging Slatus The Coean Range Averaging Slatus Flag has been set for one or more records. C6_OFFL_SIN, NOPM, 2, 201903251003250032500325000325000025_0001 Coean Range Averaging Slatus The Coean Range Averaging Slatus Flag has been set for one or more records. C6_OFFL_SIN, NOPM, 2, 2019032510032500325000325000002500001 Coean Range Averaging Slatus The Coean Range Averaging Slatus Flag has been set for one or more records. C6	CS_OFFL_SIR_NOPM_2_20190325T042802_20190325T043746_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_NOPM_2_20190325T111331_20190325T113636_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T114136_20190325T11426_C001ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T114251_20190325T114658_C001ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T114833_20190325T120202_C001Ocean Range Averaging StatusThe loe Can Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T120349_20190325T120349_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T124054_20190325T131432_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T131644_20190325T132143_C001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T13245_20190325T132143_C001Ice Range Averaging StatusThe locean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T13245_20190325T132143_C001Ice Range Averaging StatusThe locean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T13245_20190325T132951_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_NOPM_2_20190325T143244_20190325T14304_C001Oce	CS OFFL SIR NOPM 2 20190325T110214 20190325T111045 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_NOPM_2_20190325T124054_20190325T131432_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T131644_20190325T132143_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T132752_20190325T132951_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T133242_20190325T140340_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T140340_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143657_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
CS_OFFL_SIR_NOPM_2_20190325T132452_0190325T13243_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T132752_20190325T13243_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T132752_20190325T132951_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T133242_20190325T140340_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143657_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.			
CS_OFFL_SIR_NOPM_2_20190325T132752_20190325T132951_C001 Ice Range Averaging Status records. CS_OFFL_SIR_NOPM_2_20190325T132752_20190325T132951_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T13242_20190325T140340_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143657_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.			records.
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CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T143125_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T143125_C001 Ocean Range Averaging Status The Ocean Range Averaging Status records. CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143657_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.			records.
CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143657_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more			records.
US UEEL SIR NUPM 2 201903251143b04 201903251143b57 CUU1 UCean Range Averaging Status			records.
	CS_OFFL_SIR_NOPM_2_20190325T143604_20190325T143657_C001	Ocean Range Averaging Status	

	1	The Open Parge Averaging Status Flag has been out for any or more
CS_OFFL_SIR_NOPM_2_20190325T143700_20190325T145353_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T145532_20190325T150041_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T151032_20190325T152422_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T152635_20190325T153807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T160608_20190325T161626_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T161806_20190325T163257_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T163452_20190325T163952_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T163959_20190325T164011_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T164828_20190325T165006_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T165203_20190325T170241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T170438_20190325T171013_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T174904_20190325T181217_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T181529_20190325T181909_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T181930_20190325T182231_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T182509_20190325T185318_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T192534_20190325T195134_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T195311_20190325T195823_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T200431_20190325T201624_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T202202_20190325T203850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T210157_20190325T211942_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T212501_20190325T213133_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T213310_20190325T213856_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T213913_20190325T214057_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T214351_20190325T221753_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T223144_20190325T223238_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T225354_20190325T231102_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T232306_20190325T234600_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T234745_20190325T235753_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190325T213857_20190325T213913_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190325T042002_20190325T042154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190325T131433_20190325T131448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190325T213134_20190325T213145_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. 72

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190325T000336_20190325T000832_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T001347_20190325T004717_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_NOPM_2_20190325T011152_20190325T013610_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_NOPM_2_20190325T013925_20190325T013952_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_NOPM_2_20190325T015420_20190325T020136_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_NOPM_2_20190325T020143_20190325T021029_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_NOPM_2_20190325T021032_20190325T021157_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_NOPM_2_20190325T021638_20190325T022456_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_NOPM_2_20190325T023940_20190325T024237_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T024507_20190325T030041_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_NOPM_2_20190325T030256_20190325T031742_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_NOPM_2_20190325T032437_20190325T032649_C001 CS OFFL SIR NOPM 2 20190325T032733 20190325T033150 C001 CS_OFFL_SIR_NOPM_2_20190325T033325_20190325T034826_C001 CS_OFFL_SIR_NOPM_2_20190325T035005_20190325T041047_C001 CS_OFFL_SIR_NOPM_2_20190325T042802_20190325T043746_C001 CS_OFFL_SIR_NOPM_2_20190325T044449_20190325T050004_C001 CS OFFL SIR NOPM 2 20190325T050229 20190325T051052 C001 CS OFFL SIR NOPM 2 20190325T051251 20190325T053553 C001 CS_OFFL_SIR_NOPM_2_20190325T061157_20190325T063905_C001 CS_OFFL_SIR_NOPM_2_20190325T064415_20190325T064909_C001 CS OFFL SIR NOPM 2 20190325T065154 20190325T071750 C001 CS_OFFL_SIR_NOPM_2_20190325T075041_20190325T080037_C001 CS OFFL SIR NOPM 2 20190325T080615 20190325T081811 C001 CS_OFFL_SIR_NOPM_2_20190325T082336_20190325T082933_C001 CS_OFFL_SIR_NOPM_2_20190325T083103_20190325T085936_C001 CS OFFL SIR NOPM 2 20190325T090730 20190325T090925 C001 CS_OFFL_SIR_NOPM_2_20190325T092225_20190325T095718_C001 CS_OFFL_SIR_NOPM_2_20190325T100243_20190325T100804_C001 CS_OFFL_SIR_NOPM_2_20190325T104557_20190325T104944_C001 CS_OFFL_SIR_NOPM_2_20190325T110214_20190325T111045_C001 CS_OFFL_SIR_NOPM_2_20190325T111331_20190325T113636_C001 CS OFFL SIR NOPM 2 20190325T114136 20190325T114246 C001 CS_OFFL_SIR_NOPM_2_20190325T114251_20190325T114658_C001 CS OFFL SIR NOPM 2 20190325T114833 20190325T120202 C001 CS OFFL SIR NOPM 2 20190325T120349 20190325T120949 C001 CS_OFFL_SIR_NOPM_2_20190325T124054_20190325T131432_C001 CS_OFFL_SIR_NOPM_2_20190325T131644_20190325T132143_C001 CS_OFFL_SIR_NOPM_2_20190325T132204_20190325T132518_C001 CS_OFFL_SIR_NOPM_2_20190325T132752_20190325T132951_C001 CS OFFL SIR NOPM 2 20190325T133242 20190325T140340 C001 CS_OFFL_SIR_NOPM_2_20190325T142344_20190325T143125_C001 CS_OFFL_SIR_NOPM_2_20190325T143700_20190325T145353_C001 CS OFFL SIR NOPM 2 20190325T145532 20190325T150041 C001 CS_OFFL_SIR_NOPM_2_20190325T152635_20190325T153807_C001 CS_OFFL_SIR_NOPM_2_20190325T160608_20190325T161626_C001 CS OFFL SIR NOPM 2 20190325T161806 20190325T163257 C001 CS_OFFL_SIR_NOPM_2_20190325T163452_20190325T163952_C001 CS_OFFL_SIR_NOPM_2_20190325T165203_20190325T170241_C001 CS OFFL SIR NOPM 2 20190325T170438 20190325T171013 C001 CS_OFFL_SIR_NOPM_2_20190325T174904_20190325T181217_C001 CS_OFFL_SIR_NOPM_2_20190325T181529_20190325T181909_C001 CS OFFL SIR NOPM 2 20190325T181930 20190325T182231 C001 CS_OFFL_SIR_NOPM_2_20190325T182509_20190325T185318_C001 CS OFFL SIR NOPM 2 20190325T192534 20190325T195134 C001 CS_OFFL_SIR_NOPM_2_20190325T195311_20190325T195823_C001 CS_OFFL_SIR_NOPM_2_20190325T200431_20190325T201624_C001 CS OFFL SIR NOPM 2 20190325T202202 20190325T203850 C001 CS_OFFL_SIR_NOPM_2_20190325T210157_20190325T211942_C001 CS_OFFL_SIR_NOPM_2_20190325T212501_20190325T213133_C001 CS OFFL SIR NOPM 2 20190325T213310 20190325T213856 C001 CS_OFFL_SIR_NOPM_2_20190325T213913_20190325T214057_C001 Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean

Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190325T214351_20190325T221753_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_NOPM_2_20190325T223144_20190325T223238_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_NOPM_2_20190325T225354_20190325T231102_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_NOPM_2_20190325T231238_20190325T231749_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190325T232306_20190325T234600_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_NOPM_2_20190325T234745_20190325T235753_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_NOPN_2_20190325T213857_20190325T213913_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190325T042002_20190325T042154_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_NOPR_2_20190325T131433_20190325T131448_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_NOPR_2_20190325T213134_20190325T213145_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.

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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.