

IDEAS+ Daily Report for GOP data:

<u>16/11/2018</u>

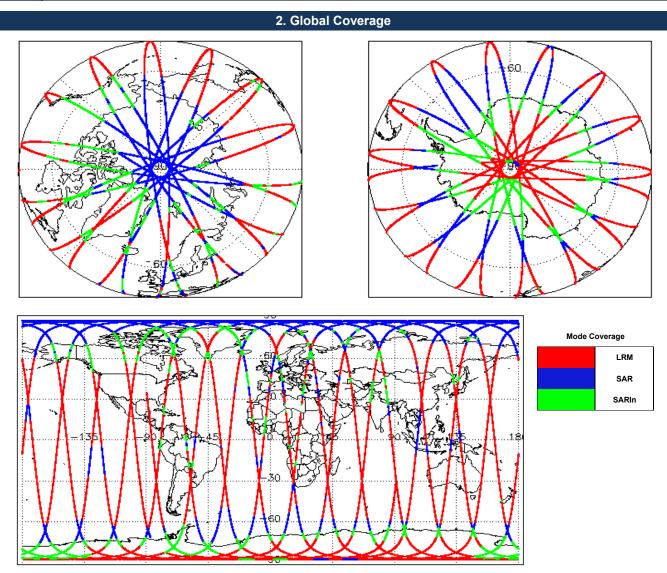


| port Production: | 17-Dec-2018 | Check | L1 & L2 | P2P |
|------------------|--|--|------------------------------|----------------------|
| port Production. | 17-Dec-2018 | Server check: science-pds.cryosat.esa.int | Nominal | Nominal |
| rocessor Used: | CrucSat Occan Brassaar | Server check: calval-pds.cryosat.esa.int | Nominal | Nominal |
| Tocessor Useu. | CryoSat Ocean Processor | Product Software Check | Nominal | Nominal |
| Data Used: | Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data | Product Format Check | Nominal | Nominal |
| Data Useu. | | Product Header Analysis | See Section 5.2 | Nominal |
| | | Auxiliary Data File Usage Check | Nominal | Nominal |
| | | Auxiliary Correction Error Check | Nominal | Nominal |
| | | Measurement Confidence Data Check | See Section 4.5, 4.6 and 5.5 | See Section 6.5 |
| | | Range, SWH & Backscatter Measurement Check | See Section 5.6, 5.7 | See Section 6.6, 6.7 |
| | | Ocean Retracking Quality Check | See Section 5.8 | See Section 6.8 |

15-Nov-2018 SIRAL unavailability on 15-Nov-2018 from 08:33:44 to 10:19:43 due to a planned orbit manoeuvre.

16-Nov-2018 None

17-Nov-2018 Nothing planned



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL - A

0

SIRAL instrument(s) in use:

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:

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-dete Number of products with errors: 0 | ermined baseline and also to check the val | lidity of Auxiliary Data Files is correct. | | | |
| 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 Attitude Correction Missing: This flag is currently set in error for GOPR products Number of products with errors: 1 | - | | | | |
| Product | Test Failed | Description | | | |
| CS_OFFL_SIR_GOPM1B_20181116T043332_20181116T043706_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 some products over land, but this is to be expected.

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Number of products with errors:

| 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 |
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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 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). 0

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: 1

| Product | Test Failed | | | |
|---|---|---|--|--|
| CS_OFFL_SIR_GOPR_2_20181116T160553_20181116T160559_C001 | Percentage of processing errors | detected greater than minimum acceptable threshold. | | |
| | | | | |
| 5.3 L2 Auxiliary Data File Usage Check | | | | |
| Each product is checked for missing Data Set Descriptors with respect to a pre-de | etermined baseline and also to check the va | alidity of Auxiliary Data Files is correct. | | |
| Number of products with errors: 0 | | | | |
| | | | | |
| 5.4 L2 Auxiliary Correction Error Check | | | | |
| For all products, the auxiliary corrections within the Geophysical Group are check | ted for the default error value (32767). | | | |
| Number of products with errors: 0 | | | | |
| 5.5 L2 Measurement Confidence Data Check | | | | |
| 5.5 Lz measurement connuence 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: 1 | | | | |
| Product | Test Failed | Description | | |
| CS OFFL SIR GOPM 2 20181116T043331 20181116T043706 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. 79

Number of products with errors:

| Partial Partial <t< th=""><th></th><th></th><th></th></t<> | | | |
|--|---|------------------------------|--|
| Chr J, Ding, Com L, 201011111101002, 20111111101002, 20011 In Finge Averaging States In Sec. Neuropaus States Finge N | | | · · · · · · · · · · · · · · · · · · · |
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| Call Dis Rock Annual Distance Annual Distance Annual Distance Annual Distance Call Dis Rock Const Rosk The Const Rosk | | Ice Range Averaging Status | records. |
| Confl. St. Confl. St. Confl. 2001111010220, 2011111010210, 2010 Confl. St. Confl. St. C | CS_OFFL_SIR_GOPM_2_20181116T001627_20181116T001635_C001 | Ice Range Averaging Status | records. |
| Carl, San, Carl, San, Cork, Jan Human, San, Jan Human, Jan Human, Hang, Janang Yaon, Human, Jan Human, Hum | CS_OFFL_SIR_GOPM_2_20181116T001642_20181116T001825_C001 | Ice Range Averaging Status | records. |
| Corp. Lang, Corp. J., Dermitter State, 14:11:11:11:11:11:11:11:11:11:11:11:11:1 | CS_OFFL_SIR_GOPM_2_20181116T002330_20181116T004818_C001 | Ocean Range Averaging Status | |
| ac.off. B. (CoPU, 2011116100007, 2018111610007, 2018111610073, 20101 Core Name Averaging Status Cal., GPH, S. (CoPU, 2, 20181161070255, 201811161072552, 20181 Cal., GPH, S. (CoPU, 2, 20181161072552, 201811161072552, 20181 Cal., GPH, S. (CoPU, 2, 20181161072552, 201811161072552, 20181 Cal., GPH, S. (CoPU, 2, 20181161072552, 201811161725552, 20101 Cal., GPH, S. (CoPU, 2, 20181161072552, 20181116172552, 20101 Cal., GPH, S. (CoPU, 2, 20181161072552, 20181116172552, 20101 Cal., GPH, S. (CoPU, 2, 20181161072552, 20181116172552, 20101 Cal., GPH, S. (CoPU, 2, 20181161702552, 20181116172552, 20101 Cal., GPH, S. (CoPU, 2, 20181161702552, 20181116172552, 2011) Cal., GPH, S. (CoPU, 2, 20181161702552, 20181116172552, 2011) Cal., GPH, S. (CoPU, 2, 20181161702552, 201811161725520, 2011) Cal., GPH, S. (CoPU, 2, 20181161702552, 201811161755550, 2011) Cal., GPH, S. (CoPU, 2, 20181161705552, 201811161755550, 2011) Cal., GPH, S. (CoPU, 2, 20181161705552, 201811161755552, 2011) Cal., GPH, S. (CoPU, 2, 20181161705552, 201811161755552, 2011) Cal., GPH, S. (CoPU, 2, 20181161705552, 201811161755552, 2011) Cal., GPH, S. (CoPU, 2, 201811617075552, 20181161755552, 2011) Cal., GPH, S. (CoPU, 2, 201811617075552, 20181161755551, 2011) Cal., GPH, S. (CoPU, 2, 201811617075552, 20181161755571, 2011) Cal., GPH, S. (CoPU, 2, 20 | CS_OFFL_SIR_GOPM_2_20181116T012300_20181116T014700_C001 | Ocean Range Averaging Status | |
| Corp. Class Corp. 2011011000000 201011000000 20101 Corp. Slip Corp. 2010111000000 201011000000 20101 Corp. Slip Corp. 201011000000 201011000000 20101 Corp. Slip Corp. 2010111000000 201011000000 20101 Corp. Slip Corp. 2010111000000 201011000000 20101 Corp. Slip Corp. 201011000000 201011000000 20101 Corp. Slip Corp. 2010111000000 201011000000 20101 Corp. Slip Corp. 2010111000000 201011000000 20101 Corp. Slip Corp. 2010111000000 201011000000 20101 Corp. Slip Corp. 2010111000000 20101 Corp. Slip Corp. 2010111000000 20101 Corp. Slip Corp. 2010111000000 20101 Corp. Slip Corp. 2010111000000 20101 Corp. Slip Corp. 2010111000000 20101 Corp. Slip Corp. 2010111000000 20101 Corp. Slip Corp. 2010111000000 20101 Corp. Slip Corp. | CS_OFFL_SIR_GOPM_2_20181116T015011_20181116T015534_C001 | Ice Range Averaging Status | |
| Count Angel Analysis Notes Count Angel Analysis Notes Notes Notes Notes Count Angel Analysis Notes Notes Notes Notes Notes Count Angel Analysis Notes | CS_OFFL_SIR_GOPM_2_20181116T020307_20181116T021334_C001 | Ocean Range Averaging Status | |
| CS_0FF_SR_0PH_2015111670255_015111670255_0151 Ocean Range Averaging Status Find has been reformed mean control. CS_0FF_SR_00PH_20151111670255_015111670155_0011 Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_20151111670155_01111670155_0011 Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670155_01111670155_0011 Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670155_0111670155_0011 Ocean Range Averaging Status The Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670155_0111670155_0111 Ocean Range Averaging Status The Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670055_0111670051_0111 Ocean Range Averaging Status The Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670051_0111670051_0111 Ocean Range Averaging Status The Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670051_0111670051_0111 Ocean Range Averaging Status The Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670051_0111670051_0111 Ocean Range Averaging Status The Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_2015111670051_0111670052_0111 Ocean Range Averaging Status The Ocean Range Averaging Status Find has been reformed mean CS_0FF_SR_00PH_20151116707050_0111 Ocean Range Averaging Status The Ocean Range Averaging St | CS_OFFL_SIR_GOPM_2_20181116T021910_20181116T023429_C001 | Ocean Range Averaging Status | |
| C6 CFIL_SIR_GOPM_2_20151116702552_2151116702550_2001 Doesn Range Averaging Status The Own Range Averaging Status The Own Range Averaging Status C6_COFF_SIR_COPM_2_20151116703533_20151116702550_2001 Docan Range Averaging Status The Own Range Averaging St | CS_OFFL_SIR_GOPM_2_20181116T025953_20181116T032131_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more |
| CbFL_SR_GOPM_2_013111670333_2013111670339_C001 Loca Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_013111670439_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_013111670439_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_013111670439_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_013111670439_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_013111670439_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_013111670439_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_0131116706430_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_0131116706440_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_0131116706440_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_0131116707640_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_0131116707640_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_0131116707640_C001 Ocean Range Averaging Status The Cost Range Averaging Status CB_OFFL_SR_GOPM_2_0131116707670_C001 | CS_OFFL_SIR_GOPM_2_20181116T032152_20181116T032610_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more |
| C6, GFL_SIR_GOFU_2_20181110T03132_0081110T03532_0001 Deam Range Averaging Status The Ocean Range Averaging Status The Ocea | CS_OFFL_SIR_GOPM_2_20181116T033003_20181116T033812_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more |
| CS, OFFL, SR, COPM 2, 20181116704281_20181116705442, 0001 Oxan Range Averaging Status The Oxan Range Averaging Status CS, OFFL, SR, COPM 2, 201811167054152_0181116705430, 0001 Oxan Range Averaging Status The Oxan Range Averaging Status The Oxan Range Averaging Status CS, OFFL, SR, COPM 2, 20181116705430, 0001 Oxan Range Averaging Status The Oxan Range Averaging Status <td< td=""><td>CS OFFL SIR GOPM 2 20181116T034337 20181116T041539 C001</td><td>Ocean Range Averaging Status</td><td>The Ocean Range Averaging Status Flag has been set for one or more</td></td<> | CS OFFL SIR GOPM 2 20181116T034337 20181116T041539 C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more |
| CB_OFFL_SIR_GOFM_2_201611161056414_20161161056402_0011 Ocean Range Averaging Status The Ocean Range Averaging Status CB_OFFL_SIR_GOFM_2_201611161056522_001111005656_00011 Ocean Range Averaging Status The Ocean Range Averaging Status CB_OFFL_SIR_GOFM_2_20161116100565_01061110001122_0001 Ocean Range Averaging Status The Ocean Range Averaging Status CB_OFFL_SIR_GOFM_2_201611161000162_01061110001122_0001 Ocean Range Averaging Status The Ocean Range Averaging Status CB_OFFL_SIR_GOFM_2_20161116100012_01001110001122_0001 Ocean Range Averaging Status The Ocean Range Averaging St | | | The Ocean Range Averaging Status Flag has been set for one or more |
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| Corpert Sing CoPM 2_20181116106352_0161116105812_0001 Ocean Range Averaging Status Teo Oc | | | |
| Count | | | records. |
| Construction Construction Construction Construction Construction CS_OFFL_SIR_COPM_2.201611161062350_201611161064402_C001 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more more factor. CS_OFFL_SIR_COPM_2.201611161062402_0011 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more more factor. CS_OFFL_SIR_COPM_2.201611161070510_201611161070530_C001 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more factor. CS_OFFL_SIR_COPM_2.201611161070510_201611161070510_C001 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more factor. CS_OFFL_SIR_COPM_2.201611161070514_201611161082137_C001 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more factor. CS_OFFL_SIR_COPM_2.201611161083542_201611161082137_C001 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more factor. CS_OFFL_SIR_COPM_2.201611161084032_201611161082137_C001 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more factor. CS_OFFL_SIR_COPM_2.201611161084032_20101 Cocan Range Averaging Slatus The Cocan Range Averaging Slatus Flag has been set for one or more factor. CS_OFFL_SIR_COPM_2.2016111610926202 | CS_OFFL_SIR_GOPM_2_20181116T060655_20181116T061128_C001 | Ocean Range Averaging Status | records. |
| Corp. Fig. Sinc. CoPM_2_201811161065302_201811161065400_0001 Coean Range Averaging Status The los Range Averaging Status The Ocean Range | CS_OFFL_SIR_GOPM_2_20181116T062718_20181116T063202_C001 | Ocean Range Averaging Status | records. |
| Correl_air_Correl_Air_Corel_Air_CoreAir_CorreL_Air_Correl_Air_Correl_Air_Correl_Air_Correl | CS_OFFL_SIR_GOPM_2_20181116T063350_20181116T064402_C001 | Ocean Range Averaging Status | records. |
| CS_OFFL_SIR_GOPM_2_20181116110010_20181116100350_001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOPM_2_018111610757616_201811161075716_0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOPM_2_01811161075716_0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOPM_2_01811161083542_0011 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOPM_2_01811161083542_00111161083748_0001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOPM_2_01811161083522_01811161083572_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_0181116108362_01811161090857_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_0181116109082_01811161090857_0001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_0181116100408_001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_01 | CS_OFFL_SIR_GOPM_2_20181116T065049_20181116T065400_C001 | Ice Range Averaging Status | records. |
| Construction Code and Range Averaging Status The code and Range Averaging Status Figure Ave | CS_OFFL_SIR_GOPM_2_20181116T070110_20181116T070553_C001 | Ocean Range Averaging Status | |
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| CS_OFFL_SIR_GOPM_2_201811161225910_20181116122595_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPM_2_201811161230332_201811161231717_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPM_2_201811161232022_201811161232518_C001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPM_2_201811161233259_201811161232518_C001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPM_2_201811161233259_20181117000629_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPN_2_201811161205404_201811161205457_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPN_2_201811161210841_201811161210931_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_201811161141315_201811161141440_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_2018111611411315_201811161141440_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_201811161141141315_201811161141440_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_20181116114114315_201811161141440_C00 | CS_OFFL_SIR_GOPM_2_20181116T215523_20181116T220548_C001 | Ocean Range Averaging Status | |
| CS_OFFL_SIR_GOPM_2_20181116T230332_20181116T231717_C001Ocean Range Averaging Statusrecords.CS_OFFL_SIR_GOPM_2_20181116T230332_20181116T231717_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPM_2_20181116T233259_20181116T233259_20181117T000629_C001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPM_2_20181116T205404_20181116T205457_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPN_2_20181116T210841_20181116T210931_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_20181116T055742_20181116T060451_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_20181116T213846_20181116T213924_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOPR_2_20181116T213846_20181116T213924_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records. | CS_OFFL_SIR_GOPM_2_20181116T221207_20181116T222815_C001 | Ocean Range Averaging Status | |
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| CS_OFFL_SIR_GOPR_2_20181116T055742_20181116T060451_C001 Ocean Range Averaging Status The Ocean Range Averaging Status CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPR_2_20181116T141364_20181116T141440_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. | CS_OFFL_SIR_GOPN_2_20181116T205404_20181116T205457_C001 | Ocean Range Averaging Status | |
| CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001 Ocean Range Averaging Status CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001 Ocean Range Averaging Status CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T213846_20181116T213924_C001 Ocean Range Averaging Status CS_OFFL_SIR_GOPR_2_20181116T213846_20181116T213924_C001 Ocean Range Averaging Status CS_OFFL_SIR_GOPR_2_20181116T213846_20181116T213846_20181116T213846_20181116T213846_20181116T213846_20181116T213846_20181116T213846_20181116T213846_20181116T2138 | CS_OFFL_SIR_GOPN_2_20181116T210841_20181116T210931_C001 | Ocean Range Averaging Status | |
| CS_OFFL_SIR_GOPR_2_20181116T213846_20181116T213924_C001 Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more | CS_OFFL_SIR_GOPR_2_20181116T055742_20181116T060451_C001 | Ocean Range Averaging Status | records. |
| US DEEL SIR GUER Z ZU1811161Z13846 ZU1811161Z13924 GUU1 UCEAN RANGE AVERAGING STATUS | CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001 | Ocean Range Averaging Status | records. |
| | CS_OFFL_SIR_GOPR_2_20181116T213846_20181116T213924_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. 81

Number of products with errors:

| Product | Test Failed | Description |
|---|---|--|
| | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T001202_20181116T001620_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T001627_20181116T001635_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T001642_20181116T001825_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T015011_20181116T015534_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |

CS_OFFL_SIR_GOPM_2_20181116T025953_20181116T032131_C001 CS OFFL SIR GOPM 2 20181116T032152 20181116T032610 C001 CS_OFFL_SIR_GOPM_2_20181116T033003_20181116T033812_C001 CS_OFFL_SIR_GOPM_2_20181116T034337_20181116T041539_C001 CS_OFFL_SIR_GOPM_2_20181116T042831_20181116T042949_C001 CS_OFFL_SIR_GOPM_2_20181116T045419_20181116T045821_C001 CS OFFL SIR GOPM 2 20181116T045914 20181116T050405 C001 CS OFFL SIR GOPM 2 20181116T050941 20181116T051500 C001 CS_OFFL_SIR_GOPM_2_20181116T052152_20181116T054310_C001 CS_OFFL_SIR_GOPM_2_20181116T054555_20181116T055612_C001 CS_OFFL_SIR_GOPM_2_20181116T060655_20181116T061128_C001 CS_OFFL_SIR_GOPM_2_20181116T062718_20181116T063202_C001 CS OFFL SIR GOPM 2 20181116T063350 20181116T064402 C001 CS_OFFL_SIR_GOPM_2_20181116T065049_20181116T065400_C001 CS_OFFL_SIR_GOPM_2_20181116T070110_20181116T070553_C001 CS OFFL SIR GOPM 2 20181116T070600 20181116T073510 C001 CS_OFFL_SIR_GOPM_2_20181116T075016_20181116T075716_C001 CS_OFFL_SIR_GOPM_2_20181116T075734_20181116T082137_C001 CS OFFL SIR GOPM 2 20181116T083544 20181116T083748 C001 CS_OFFL_SIR_GOPM_2_20181116T084033_20181116T085729_C001 CS_OFFL_SIR_GOPM_2_20181116T085927_20181116T090857_C001 CS OFFL SIR GOPM 2 20181116T092503 20181116T092913 C001 CS_OFFL_SIR_GOPM_2_20181116T093028_20181116T094609_C001 CS OFFL SIR GOPM 2 20181116T095229 20181116T100408 C001 CS OFFL SIR GOPM 2 20181116T101249 20181116T101714 C001 CS OFFL SIR GOPM 2 20181116T101936 20181116T103357 C001 CS_OFFL_SIR_GOPM_2_20181116T103536_20181116T105020_C001 CS_OFFL_SIR_GOPM_2_20181116T112058_20181116T112601_C001 CS_OFFL_SIR_GOPM_2_20181116T112806_20181116T114409_C001 CS OFFL SIR GOPM 2 20181116T114740 20181116T115626 C001 CS_OFFL_SIR_GOPM_2_20181116T115925_20181116T122103_C001 CS_OFFL_SIR_GOPM_2_20181116T125820_20181116T132258_C001 CS OFFL SIR GOPM 2 20181116T132949 20181116T133418 C001 CS_OFFL_SIR_GOPM_2_20181116T133904_20181116T140302_C001 CS_OFFL_SIR_GOPM_2_20181116T143138_20181116T144604_C001 CS OFFL SIR GOPM 2 20181116T145141 20181116T150055 C001 CS_OFFL_SIR_GOPM_2_20181116T150905_20181116T151456_C001 CS OFFL SIR GOPM 2 20181116T151819 20181116T153727 C001 CS OFFL SIR GOPM 2 20181116T153753 20181116T154213 C001 CS_OFFL_SIR_GOPM_2_20181116T155358_20181116T155501_C001 CS_OFFL_SIR_GOPM_2_20181116T160723_20181116T164101_C001 CS OFFL SIR GOPM 2 20181116T164811 20181116T165327 C001 CS_OFFL_SIR_GOPM_2_20181116T170009_20181116T170300_C001 CS_OFFL_SIR_GOPM_2_20181116T173048_20181116T173449_C001 CS_OFFL_SIR_GOPM_2_20181116T174608_20181116T175612_C001 CS_OFFL_SIR_GOPM_2_20181116T175858_20181116T182017_C001 CS OFFL SIR GOPM 2 20181116T182649 20181116T182812 C001 CS_OFFL_SIR_GOPM_2_20181116T182819_20181116T183227_C001 CS_OFFL_SIR_GOPM_2_20181116T183747_20181116T184733_C001 CS OFFL SIR GOPM 2 20181116T184921 20181116T185638 C001 CS_OFFL_SIR_GOPM_2_20181116T185722_20181116T190154_C001 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

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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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 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.

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 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.

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.

| CS_OFFL_SIR_GOPM_2_20181116T192346_20181116T195911_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
|---|---|--|
| CS_OFFL_SIR_GOPM_2_20181116T200148_20181116T200710_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T200730_20181116T201009_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T201812_20181116T203041_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T203050_20181116T204822_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T204942_20181116T205404_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T210542_20181116T210841_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T210931_20181116T212130_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T212334_20181116T213846_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T214107_20181116T214607_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T215523_20181116T220548_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T221207_20181116T222815_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T230332_20181116T231717_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T232022_20181116T232518_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T232543_20181116T232553_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20181116T233259_20181117T000629_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20181116T205404_20181116T205457_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20181116T210841_20181116T210931_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20181116T055742_20181116T060451_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20181116T141315_20181116T141440_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20181116T213846_20181116T213924_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |

5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 63

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: 0

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

1

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

| Product | Test Failed | Description |
|--|---------------------|---|
| CS_OFFL_SIR_GOP_2_20181116T042430_20181116T051409_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

6.6 P2P Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

| Number of products with errors: |
|---------------------------------|
|---------------------------------|

| Product | Test Failed | Description |
|---------|---|--|
| | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| | 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_20181116T010603_20181116T015542_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_220181116T015542_20181116T024517_C001 | Ocean Range Averaging Status 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_220181116T024517_20181116T033456_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_220181116T033456_20181116T042430_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T042430_20181116T051409_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_220181116T051409_20181116T060344_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_220181116T060344_20181116T065323_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T065323_20181116T074257_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T074257_20181116T083236_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_220181116T083236_20181116T092211_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T092211_20181116T101150_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T101150_20181116T110124_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_220181116T110124_20181116T115104_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T115104_20181116T124038_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_220181116T124038_20181116T133017_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T133017_20181116T141951_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_20181116T141951_20181116T150931_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_20181116T150931_20181116T155905_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_20181116T155905_20181116T164844_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T164844_20181116T173819_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_220181116T173819_20181116T182758_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T182758_20181116T191732_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_220181116T191732_20181116T200711_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_220181116T200711_20181116T205646_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T205646_20181116T214625_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_220181116T214625_20181116T223559_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T223559_20181116T232539_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_220181116T232539_20181117T001513_C002 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| | | |

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

Number of products with errors:

| Product | Test Failed | Description |
|--|--|---|
| CS_OFFL_SIR_GOP_220181115T232649_201811116T001629_C002 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20181116T001629_20181116T010603_C002 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T010603_20181116T015542_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_220181116T015542_20181116T024517_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_220181116T024517_20181116T033456_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_220181116T033456_20181116T042430_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_220181116T042430_20181116T051409_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_20181116T051409_20181116T060344_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_220181116T060344_20181116T065323_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_220181116T065323_20181116T074257_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_20181116T074257_20181116T083236_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_20181116T083236_20181116T092211_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_20181116T092211_20181116T101150_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_20181116T101150_20181116T110124_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_20181116T110124_20181116T115104_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_20181116T115104_20181116T124038_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_220181116T124038_20181116T133017_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_20181116T133017_20181116T141951_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_220181116T141951_20181116T150931_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_20181116T150931_20181116T155905_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_220181116T155905_20181116T164844_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_20181116T164844_20181116T173819_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_220181116T173819_20181116T182758_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_20181116T182758_20181116T191732_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_20181116T191732_20181116T200711_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_20181116T200711_20181116T205646_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_220181116T205646_20181116T214625_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_20181116T214625_20181116T223559_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_220181116T223559_20181116T232539_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_20181116T232539_20181117T001513_C002 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| | | |

6.8 P2P Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 28

| Product | Test Failed | Description |
|--|-------------------------------|---|
| CS_OFFL_SIR_GOP_2_20181116T001629_20181116T010603_C002 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T010603_20181116T015542_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T015542_20181116T024517_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T024517_20181116T033456_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T033456_20181116T042430_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T042430_20181116T051409_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T051409_20181116T060344_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T060344_20181116T065323_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T065323_20181116T074257_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T074257_20181116T083236_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T083236_20181116T092211_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T092211_20181116T101150_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T101150_20181116T110124_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T110124_20181116T115104_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T115104_20181116T124038_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T124038_20181116T133017_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T133017_20181116T141951_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T141951_20181116T150931_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |

| CS_OFFL_SIR_GOP_220181116T150931_20181116T155905_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
|---|-------------------------------|---|
| CS_OFFL_SIR_GOP_220181116T155905_20181116T164844_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T164844_20181116T173819_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T173819_20181116T182758_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T182758_20181116T191732_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T191732_20181116T200711_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T200711_20181116T205646_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T205646_20181116T214625_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T214625_20181116T223559_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220181116T232539_20181117T001513_C002 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |