

IDEAS+ Daily Report for IOP data:

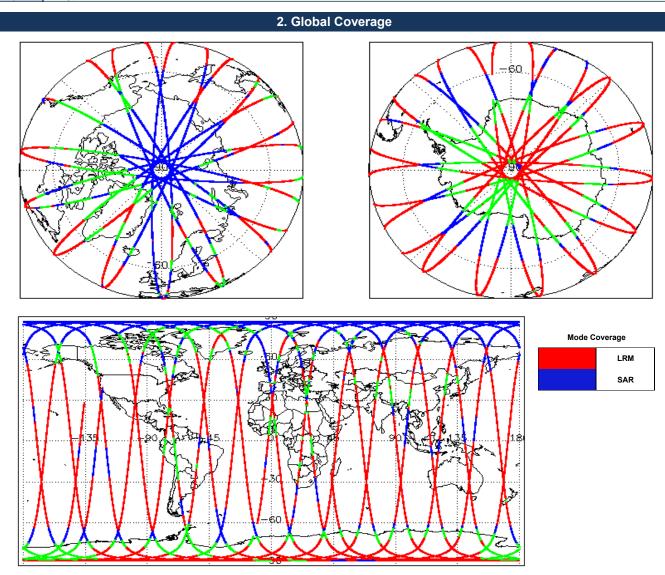
24/05/2018

| | | I. Overview | | |
|--------------------|-----------------------------------------------------------------|--------------------------------------------|------------------------------|----------------------|
| | | | | |
| Report Production: | 20 May 2018 | Check | L1 & L2 | P2P |
| report Production. | 29-May-2018 | Server check: science-pds.cryosat.esa.int | Nominal | Nominal |
| Processor Used: | CryoSat Ocean Processor | Server check: calval-pds.cryosat.esa.int | Nominal | Nominal |
| Processor Useu. | | Product Software Check | Nominal | Nominal |
| Data Used: | Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data | Product Format Check | Nominal | Nominal |
| Data Useu. | | Product Header Analysis | Nominal | Nominal |
| | | Auxiliary Data File Usage Check | Nominal | Nominal |
| | | Auxiliary Correction Error Check | Nominal | Nominal |
| | | Measurement Confidence Data Check | See Section 4.5, 4.6 and 5.5 | See Section 6.5 |
| | | Range, SWH & Backscatter Measurement Check | See Section 5.6, 5.7 | See Section 6.6, 6.7 |
| | | Ocean Retracking Quality Check | See Section 5.8 | See Section 6.8 |

Overview

Mission / Instrument News 23-May-2018 None 24-May-2018 None

25-May-2018 Nothing planned



3. Instrument Configuration

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

SIRAL instrument(s) in use:

in use: SIRAL - A

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4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

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. Number of products with errors: 0 |
| 4.4 L1B Auxiliary Correction Error Check |
| CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0 |
| 4.5 L1B Measurement Confidence Data Check |
| CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set. Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update. |

Number of products with errors:

| Product | | Description |
|---------------------------------------------------------|----------------------|---------------------------------------------------------------------------------|
| CS OFFL SIR IOPM1B 20180524T074042 20180524T074755 C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more |
| | 3 | records There is an error in the scaling of the L1B waveform for one or more |
| CS_OFFL_SIR_IOPM1B_20180524T085500_20180524T092915_C001 | | records |
| CS OFFL SIR IOPM1B 20180524T190957 20180524T192314 C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more |
| | r ower boaring error | 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.

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Number of products with errors:

| Product | Test Failed | Description |
|---------------------------------------------------------|--------------|------------------------------------------------------|
| CS_OFFL_SIR_IOPM1B_20180524T011632_20180524T011747_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPM1B_20180524T013108_20180524T020435_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPM1B_20180524T050515_20180524T050711_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20180524T061258_20180524T061804_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20180524T110602_20180524T111203_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20180524T211427_20180524T211917_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20180524T224633_20180524T224731_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T074918_20180524T075240_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T093511_20180524T094341_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T111203_20180524T111947_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T111954_20180524T112105_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T142655_20180524T143654_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T161732_20180524T162133_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T190557_20180524T190736_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20180524T224932_20180524T225451_C001 | Loss of Echo | The tracking echo is missing for one or more records |

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

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 Ge | ophysical Group are checked for the default error value (32767). |
|-----------------------------------------------------------|------------------------------------------------------------------|
| Number of products with errors: | 0 |

0

5.5 L2 Measurement Confidence Data Check

| - , | | |
|---------------------------------------------------------|---------------------|-----------------------------------------------------------------------------|
| Number of products with errors: 3 | | |
| Product | Test Failed | Description |
| CS_OFFL_SIR_IOPM_2_20180524T074042_20180524T074755_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_IOPM_2_20180524T085500_20180524T092915_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_IOPM_2_20180524T190957_20180524T192314_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| | | |

5.6 L2 Range Measurement Check

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

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

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

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

Number of products with errors:

| Product | Test Failed | Description |
|----------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS_OFFL_SIR_IOPM_2_20180523T235255_20180524T000857_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T001052_20180524T002512_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T003154_20180524T003733_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T003929_20180524T004515_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T013108_20180524T020435_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T021058_20180524T021609_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T021915_20180524T023747_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T030949_20180524T034311_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T034841_20180524T035057_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T035103_20180524T035515_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T035915_20180524T042544_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T042607_20180524T043334_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T043334_20180524T043337_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T044932_20180524T050034_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T050717_20180524T052240_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T052436_20180524T052955_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T053014_20180524T053220_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| S_OFFL_SIR_IOPM_2_20180524T054108_20180524T055329_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T055532_20180524T061258_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S OFFL SIR IOPM 2 20180524T063505 20180524T064436 C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T064638_20180524T070127_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| S OFFL SIR IOPM 2 20180524T071658 20180524T071924 C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T073457_20180524T074018_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T074042_20180524T074755_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T082439_20180524T084027_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T084345_20180524T084823_C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| S_OFFL_SIR_IOPM_2_20180524T084844_20180524T085013_C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_IOPM_2_20180524T085500_20180524T092915_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S OFFL SIR IOPM 2 20180524T095421 20180524T101957 C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| CS OFFL SIR IOPM 2 20180524T102743 20180524T103107 C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_IOPM_2_20180524T1031429_20180524T104535_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_IOPM_2_20180524T105110_20180524T104035_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| | | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T110151_20180524T110602_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T113219_20180524T115959_C001 | Ocean Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| S_OFFL_SIR_IOPM_2_20180524T120159_20180524T120637_C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| S_OFFL_SIR_IOPM_2_20180524T120640_20180524T121012_C001 | Ice Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| CS_OFFL_SIR_IOPM_2_20180524T121403_20180524T124756_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or mor |
| S_OFFL_SIR_IOPM_2_20180524T133207_20180524T133450_C001 | Ocean Range Averaging Status | records. The loc Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_IOPM_2_20180524T134142_20180524T134703_C001 | Ice Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| S_OFFL_SIR_IOPM_2_20180524T135334_20180524T141510_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_IOPM_2_20180524T141756_20180524T142655_C001 | Ocean Range Averaging Status | records. |
| CS_OFFL_SIR_IOPM_2_20180524T143930_20180524T144319_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T145918_20180524T150406_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T150553_20180524T151719_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T152152_20180524T152602_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T153254_20180524T153810_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or mor records. |

| CS_OFFL_SIR_IOPM_2_20180524T153819_20180524T160449_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
|---------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------|
| CS_OFFL_SIR_IOPM_2_20180524T162345_20180524T165341_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T171212_20180524T172928_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T173409_20180524T174114_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T175709_20180524T180032_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T180250_20180524T181814_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T182433_20180524T183533_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T183549_20180524T183606_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T184202_20180524T184421_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T184456_20180524T184917_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T185127_20180524T190556_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T190736_20180524T190954_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T190957_20180524T192314_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T194535_20180524T195141_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T195303_20180524T195622_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T200114_20180524T201638_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T201950_20180524T202824_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T203056_20180524T205324_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T213117_20180524T215536_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T215902_20180524T220052_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T220149_20180524T220626_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T221023_20180524T223858_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T230814_20180524T231809_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T232346_20180524T233426_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T233831_20180524T233841_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T234106_20180524T234659_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T234846_20180525T001037_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20180524T020741_20180524T021057_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20180524T061258_20180524T061804_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20180524T161719_20180524T161731_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20180524T175548_20180524T175709_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20180524T035622_20180524T035915_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20180524T043338_20180524T043338_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20180524T084028_20180524T084127_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20180524T110105_20180524T110150_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20180524T115959_20180524T120035_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20180524T215537_20180524T215739_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_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. 86

Number of products with errors:

| Product | Test Failed | Description |
|---------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------|
| | | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| | 00 | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20180524T003154_20180524T003733_C001 | LICE BACKSCATTER AVERAGING STATUS | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS OFFE SIR TOPM 2 201805241003929 201805241004515 C001 | | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| | 000 | The SWH and Ocean Averaging Status Flags have been set for one or more records. |

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Ice 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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| Sp. GFL_SR_JOPM_2.20180524T18407_20180524T18407_0001 Sp. GFL_SR_JOPM_2.20180524T18512_20180524T18055_001 Sp. GFL_SR_JOPM_2.20180524T18512_20180524T18512_001 Sp. GFL_SR_JOPM_2.20180524T18512_0180524T18512_001 Sp. GFL_SR_JOPM_2.20180524T18512_0180524T18512_001 Sp. GFL_SR_JOPM_2.20180524T18512_0180524T18512_001 Sp. GFL_SR_JOPM_2.20180524T18512_0180524T18512_001 Sp. GFL_SR_JOPM_2.20180524T18512_0180524T125185_001 Sp. GFL_SR_JOPM_2.20180524T125125_001 Sp. GFL_SR_JOPM_2.20180524T12518_001 Sp. GFL_SR_JOPM_2.20180524T23185_001 Sp. GFL_SR_JOPM_2.20180524T23052_001 Sp. GFL_SR_JOPM_2.20180524T23054_0018524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_0018524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_001 Sp. GFL_SR_JOPM_2.20180524T23054_001< | CS_OFFL_SIR_IOPM_2_20180524T184202_20180524T184421_C001 | 0.0 | The Ice Backscatter Averaging Status Flag has been set for one or more |
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| PC-UT-LSRUDPH_20180524110530_0180524110541_001 Backsatter Xveraging Status more records. Sig_OFFL_SRUDPH_2_0180524110530_0180524110562_001 Backsatter Xveraging Status more records. Sig_OFFL_SRUDPH_2_01805241201562_01805241202242_001 Backsatter Xveraging Status more records. Sig_OFFL_SRUDPH_2_01805241201562_01805241202242_0011 Backsatter Xveraging Status more records. Sig_OFFL_SRUDPH_2_01805241201562_01805241203524_0011 Backsatter Xveraging Status more records. Sig_OFFL_SRUDPH_2_01805241201562_01805241203524_0011 Backsatter Xveraging Status The SVH and Ocean Averaging Status Sig_OFFL_SRUDPH_2_01805241213502_01805241220362_0011 be Backsatter Averaging Status The SVH and Ocean Averaging Status The SVH and Ocean Averaging Status Sig_OFFL_SRUDPH_2_018062641221462_01805241220452_0011 be Backsatter Averaging Status The size Backs | CS_OFFL_SIR_IOPM_2_20180524T190957_20180524T192314_C001 | | |
| B_CHT_SIR_UPM_2_0180524175034_0184_20180522_011 Backsatter Averaging Status none recods. SS_OFF_SIR_UPM_2_0180524172014_201805241720158_001 Backsatter Averaging Status none recods. SS_OFF_SIR_UPM_2_01805241720159_01805241720532_001 be Backsatter Averaging Status The SVH and Cean Averaging Status Flag have been set for one or more recods. SS_OFF_SIR_UPM_2_01805241720562_01805241720522_001 be Backsatter Averaging Status. Obean Backsatter Averaging Status. Obean Backsatter Averaging Status. Obean Backsatter Averaging Status. Obean Data Status. Flag have been set for one or more records. SS_OFF_SIR_UPM_2_01805241721500_20180524172052_001 be Backsatter Averaging Status The ice Backsatter Averaging Status The ice Backsatter Averaging Status SS_OFF_SIR_UPM_2_0180524172103_0180524172032_0180524172032_01805241723346_001 Backsatter Averaging Status The ice Backsatter Averaging Status The ice Backsatter Averaging Status SS_OFF_SIR_UPM_2_0180524172103_01805241723346_001 Backsatter Averaging Status The ice Backsatter Averaging Status The ice Backsatter Averaging Status SS_OFF_SIR_UPM_2_01805241723342_001 be Backsatter Averaging Status The ice Backsatter Averaging Status The ice Backsatter Averaging Status SS_OFF_SIR_UPM_2_01805241723341_001 be Backsatter Averaging Status The ice Backsatter Averaging Status SS_OFF_SIR_UPM_2_0180524172 | CS_OFFL_SIR_IOPM_2_20180524T194535_20180524T195141_C001 | | |
| PC-UTE_DIFL_OPM_2_010054120118_010054120108_0100 Backscatter Averaging Status more records. SS_OFFL_SIR_OPM_2_0100524120190_01085241202524_C001 Exe Backscatter Averaging Status The for Backscatter Averaging Status Figs Figs Figs Figs Figs Figs Figs Figs | CS_OFFL_SIR_IOPM_2_20180524T195303_20180524T195622_C001 | | |
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| Sp. UPLL_SIR_UOPM_2_01180324121317_01003241213592_001 Backscatter Averaging Status The close Backscatter Averaging Status Sig_OFFL_SIR_IOPM_2_02180524T220149_0180524T220162_001 Ice Backscatter Averaging Status The close Backscatter Averaging Status Status Flags have been set for one or more records. Sig_OFFL_SIR_IOPM_2_0180524T223841_0108524T223841_0001 Ice Backscatter Averaging Status The close Backscatter Averaging Status Flags have been set for one or more records. Sig_OFFL_SIR_IOPM_2_0180524T23468_0180524T23469_0011 Ice Backscatter Averaging Status The close Backscatter Averaging Status Flags have been set for one or more records. Sig_OFFL_SIR_IOPN_2_0180524T23468_0180524T0167_C0011 Ice Backscatter Averaging Status The close Backscatter Averaging Status Flags have been set for one | CS_OFFL_SIR_IOPM_2_20180524T203056_20180524T205324_C001 | | |
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| SS_OFFL_SIR_IOPR_2_20180524T043338_20180524T084127_C001 Backscatter Averaging Status more records. SS_OFFL_SIR_IOPR_2_20180524T084028_20180524T1084127_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T110105_20180524T110150_C001 SWH Averaging Status more records. SS_OFFL_SIR_IOPR_2_20180524T115959_20180524T120035_C001 SWH Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T15537_20180524T215739_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T215537_20180524T215739_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SAS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status | CS_OFFL_SIR_IOPR_2_20180524T035622_20180524T035915_C001 | Backscatter Averaging Status | |
| SS_OFFL_SIR_IOPR_2_20180524T064028_20180524T064127_C001 Backscatter Averaging Status more records. SS_OFFL_SIR_IOPR_2_20180524T110105_20180524T110150_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T115959_20180524T120035_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20180524T215537_20180524T215739_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20180524T215537_20180524T215739_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T | CS_OFFL_SIR_IOPR_2_20180524T043338_20180524T043338_C001 | | |
| SS_OFFL_SIR_IOPR_2_20180524T110105_20180524T120035_C001 Backscatter Averaging Status more records. SS_OFFL_SIR_IOPR_2_20180524T115959_20180524T120035_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T215537_20180524T215739_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 SWH Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records. SAB L2 Ocean Retracking Quality Check ZryoSat 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. ZryoSat 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. | CS_OFFL_SIR_IOPR_2_20180524T084028_20180524T084127_C001 | | |
| Backscatter Averaging Status more records. S2_OFFL_SIR_IOPR_2_20180524T215537_20180524T215739_C001 Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records. S2_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_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. | CS_OFFL_SIR_IOPR_2_20180524T110105_20180524T110150_C001 | Backscatter Averaging Status | |
| SS_OFFL_SIR_IOPR_2_201805241215537_201805241215739_C001 Backscatter Averaging Status more records. SS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_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 ExpoSat 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. Status of this flag indicates any problems when set. | CS_OFFL_SIR_IOPR_2_20180524T115959_20180524T120035_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | |
| SS_OFFL_SIR_IOPR_2_201805241231809_201805241232346_C001 Backscatter Averaging Status more records. 5.8 L2 Ocean Retracking Quality Check CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. 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. | CS_OFFL_SIR_IOPR_2_20180524T215537_20180524T215739_C001 | | |
| 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. | CS_OFFL_SIR_IOPR_2_20180524T231809_20180524T232346_C001 | | |
| | 5.8 L2 Ocean Retracking Quality Check | | |
| Cean 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. | CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea | surement record. The bit value of this flag ir | ndicates any problems when set. |
| lumber of products with errors: 65 | | and and sea ice, but this is to be expected. T | The number of products with this error flag set is given below. |

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

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: 0

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

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:

2

| Product | Test Failed | Description |
|-------------------------------------------------------|---------------------|-----------------------------------------------------------------------------|
| CS_OFFL_SIR_IOP_220180524T070924_20180524T075901_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_IOP_220180524T184359_20180524T193336_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.

| Product | Test Failed | Description |
|--------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| CS_OFFL_SIR_IOP_220180523T234253_20180524T003230_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T003230_20180524T012207_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T012207_20180524T021143_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T021143_20180524T030120_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T030120_20180524T035057_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T035057_20180524T044034_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T044034_20180524T053010_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T053010_20180524T061947_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T061947_20180524T070924_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T070924_20180524T075901_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T075901_20180524T084837_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T093814_20180524T102751_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T102751_20180524T111728_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T111728_20180524T120705_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T120705_20180524T125642_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T125642_20180524T134618_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T134618_20180524T143555_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T143555_20180524T152532_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T152532_20180524T161509_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T161509_20180524T170445_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T170445_20180524T175422_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T175422_20180524T184359_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T184359_20180524T193336_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T193336_20180524T202312_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T202312_20180524T211250_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T211250_20180524T220226_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_220180524T220226_20180524T225203_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on or more records. |
| CS_OFFL_SIR_IOP_2_20180524T225203_20180524T234140_C002 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T234140_20180525T003117_C002 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for on 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. 29

Number of products with errors:

| Product | Test Failed | Description |
|-------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------|
| CS_OFFL_SIR_IOP_220180523T234253_20180524T003230_C001 | Backscatter Averaging Status Ice | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T003230_20180524T012207_C001 | | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T012207_20180524T021143_C001 | | The SWH and Ocean Averaging Status Flags have been set for one or more records. |

| CS_OFFL_SIR_IOP_220180524T021143_20180524T030120_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| CS_OFFL_SIR_IOP_220180524T030120_20180524T035057_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_IOP_220180524T035057_20180524T044034_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T044034_20180524T053010_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T053010_20180524T061947_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T061947_20180524T070924_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T070924_20180524T075901_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_IOP_220180524T075901_20180524T084837_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T093814_20180524T102751_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T102751_20180524T111728_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_IOP_220180524T111728_20180524T120705_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T120705_20180524T125642_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T125642_20180524T134618_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T134618_20180524T143555_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T143555_20180524T152532_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_IOP_220180524T152532_20180524T161509_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T161509_20180524T170445_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T170445_20180524T175422_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T175422_20180524T184359_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T184359_20180524T193336_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_IOP_220180524T193336_20180524T202312_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_IOP_220180524T202312_20180524T211250_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T211250_20180524T220226_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_IOP_220180524T220226_20180524T225203_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T225203_20180524T234140_C002 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T234140_20180525T003117_C002 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |

6.8 P2P Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 26

| Product | Test Failed | Description |
|-------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------|
| CS_OFFL_SIR_IOP_220180523T234253_20180524T003230_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T003230_20180524T012207_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T012207_20180524T021143_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T021143_20180524T030120_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T030120_20180524T035057_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T035057_20180524T044034_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T044034_20180524T053010_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T053010_20180524T061947_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T061947_20180524T070924_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |

| CS_OFFL_SIR_IOP_220180524T070924_20180524T075901_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
|-------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------|
| CS_OFFL_SIR_IOP_220180524T093814_20180524T102751_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T102751_20180524T111728_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T111728_20180524T120705_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T120705_20180524T125642_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T125642_20180524T134618_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T134618_20180524T143555_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T143555_20180524T152532_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T152532_20180524T161509_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T161509_20180524T170445_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T170445_20180524T175422_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T175422_20180524T184359_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T184359_20180524T193336_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T193336_20180524T202312_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T202312_20180524T211250_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T211250_20180524T220226_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220180524T225203_20180524T234140_C002 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |