

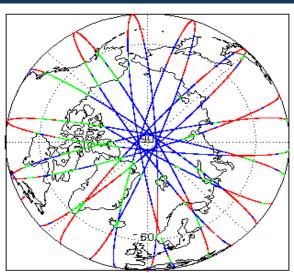
## 1. Overview

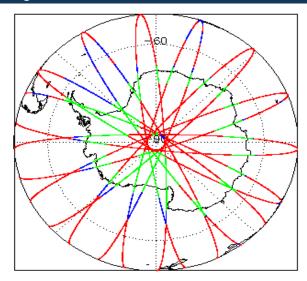
Report Production:	11-Feb-2020		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data		

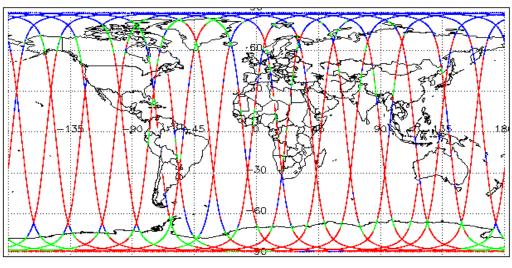
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

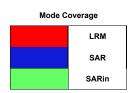
I	Mission / Instru	ment News
	07-Feb-2020	None
	08-Feb-2020	Due to connectivity issues in Kiruna, L0 data and AUX files dissemination was interrupted approximately from 2020-02-08 14:00:00 to 2020-02-09 22:00:00
	09-Feb-2020	Due to connectivity issues in Kiruna, L0 data and AUX files dissemination was interrupted approximately from 2020-02-08 14:00:00 to 2020-02-09 22:00:00

## 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

## 4. 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).

#### 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.

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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:

0

### 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.

Number of products with errors:

1/

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200208T084321_20200208T084911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200208T230042_20200208T231631_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T001552_20200208T002203_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T005739_20200208T010152_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T041115_20200208T041706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T061504_20200208T061710_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T074335_20200208T074408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T141932_20200208T142421_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T173315_20200208T173341_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T195953_20200208T200403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200208T222543_20200208T222721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200208T033730_20200208T033830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200208T185942_20200208T190301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200208T225840_20200208T230042_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:

#### 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: 0

#### 5.4 L2 Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors 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.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

51

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200208T001553_20200208T002203_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOPN_2_20200208T005739_20200208T010152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T014630_20200208T014856_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T015523_20200208T015836_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T023625_20200208T024014_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T033613_20200208T033729_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T041115_20200208T041706_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20200208T050543_20200208T050706_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T051519_20200208T051634_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T064522_20200208T064648_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T065209_20200208T065517_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T082505_20200208T082718_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T083108_20200208T083439_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T100546_20200208T100820_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T110052_20200208T110213_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200208T114114_20200208T114707_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T123514_20200208T123618_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T124019_20200208T124231_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T132311_20200208T132454_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T133331_20200208T133532_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T164343_20200208T164612_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200208T182206_20200208T182519_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T200934_20200208T201028_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T201028_20200208T201059_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200208T204911_20200208T205310_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200208T214727_20200208T214910_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200208T223111_20200208T223207_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

Col. Ciffs., Bill. (Ciffs.) 2. 200002081101013 20000081101814 20000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 20000811101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 2000081101814 20008811101814 20008811101814 20008811101814 200	CS_OFFL_SIR_IOPN_2_20200208T232519_20200208T232736_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Sec. OFFL_SRI_OFFL_2.20202081704014_28000081108000_C031  Name See Settline (1) Mean Dynamic Traces is an arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1). And the Mean Dynamic Traces are arror with the MSS height (celulate 1) and the Mean Dynamic Traces are arror with the MSS height (celulate 1). And the Mean Dynamic Traces are arror with the MSS hei	CS_OFFL_SIR_IOPR_2_20200208T010153_20200208T010818_C001		
Copyress    19   Copy	CS_OFFL_SIR_IOPR_2_20200208T010818_20200208T010848_C001	Mean Dynamic Topography (1)	
Topography (1)  CB_OFFL_SRI_IOPR_2_202002081000091_20200081000092_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  CB_OFFL_SRI_IOPR_2_202002081000092_0000081000092_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  CB_OFFL_SRI_IOPR_2_202002081000092_0000081000092_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  CB_OFFL_SRI_IOPR_2_20200208100093_20200081000092_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  CB_OFFL_SRI_IOPR_2_20200208100093_20200081000093_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  CB_OFFL_SRI_IOPR_2_20200208100093_202000811000093_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  CB_OFFL_SRI_IOPR_2_20200208100093_202000811000093_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  CB_OFFL_SRI_IOPR_2_20200208100093_202000811000093_0001  Meen Sea Surface (1), Mean Dynamic Topography (1)  Meen Sea Surface (1), Mean Dynamic Topography (1)  Meen Sea Surface (1), Mean Dynamic Topography paget (solution 1) and the Mean Dynamic Topography (1) (1), Tool Goodening Coolers (1), Mean Dynamic Topography	CS_OFFL_SIR_IOPR_2_20200208T024014_20200208T024848_C001		
Topography (1)  Cis_CPFL_SIR_LOPR_2_200000081000001_2000008104188_C0001  Cis_CPFL_SIR_LOPR_2_200000081073213_2000008104188_C0001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Nean Sea Surface (1), Mean Dynamic Topography (1)  Nean Sea Surface (1), Mean Dynamic Topography (1)  Nean Sea Surface (1), Mean Dynamic Topography (1)  Cis_CPFL_SIR_LOPR_2_20000081073213_2000008108205_C001  Mean Sea Surface (1), Mean Dynamic Topography height (edution 1) and the Mean Dynamic Topography (1)  Nean Sea Surface (1), Mean Dynamic Topography height (edution 1) and the Mean Dynamic Topography (1)  Cis_CPFL_SIR_LOPR_2_2000008109205_2000008109202_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_200000810938_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_2000008110938_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_2000008110938_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_2000008110938_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_2000008110938_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_2000008111098_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_2000008111098_C001  Cis_CPFL_SIR_LOPR_2_2000008110938_2000008111098_200008111098_200008111098_2000008111098_2000008111098_200008111098_200008111098_200008111098_2000088111098_2000008111098_2000088111098_200088111098_200088111098_200088111098_200088111098_200	CS_OFFL_SIR_IOPR_2_20200208T041707_20200208T042448_C001		
Topography (1)   Topography (2)   Topography (2)   Topography (3)   Topography (4)   Topo	CS_OFFL_SIR_IOPR_2_20200208T055640_20200208T060300_C001		
Topography (1)  CS_OFFL_SIR_JOPR_2_20000008T074156_2000008T074355_C001  Mans Sea Surface (1), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (2)  CS_OFFL_SIR_JOPR_2_20000008T091436_2000008T090055_C001  Mans Sea Surface (1), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (2)  CS_OFFL_SIR_JOPR_2_20000008T091439_2000008T090055_C001  Mans Sea Surface (1), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (2)  Mans Sea Surface (3), Mean Dynamic Topography Height (colution 1) and the Mean Dynamic Topography (2)  CS_OFFL_SIR_JOPR_2_20000008T109336_2000008T109336_0001  CS_OFFL_SIR_JOPR_2_20000008T109336_2000008T10051_C001  Mans Sea Surface (1), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (2)  Mans Sea Surface (3), Mean Dynamic Topography (3)  Mans Sea Surface (4), Mean Dynamic Topography (4)  Mans Sea Surface (4), Mean Dynamic Topography (4)  Mans Sea Surface (4), Mean Dynamic Topography (4)  Mans Sea Surface (4), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (1)  Mans Sea Surface (4), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (1)  Mans Sea Surface (4), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (1)  Mans Sea Surface (4), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (1)  Mans Sea Surface (4), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (1)  Mans Sea Surface (1), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (1)  Mans Sea Surface (1), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography Regist (colution 1) and the Mean Dynamic Topography Regis	CS_OFFL_SIR_IOPR_2_20200208T060300_20200208T060612_C001		
Topography (1)  OS_OFFL_SIR_JOPR_2_202002091094133_202002091092292_C001  Mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography height (coulden 1), and stad corrections for one or more records.  OS_OFFL_SIR_JOPR_2_202002091109539_20200208110951_C001  Mean Sea Surface (1), Mean Dynamic Topography height (coulden 1), and stad corrections for one or more records.  OS_OFFL_SIR_JOPR_2_202002091123919_202002081123911_C001  Mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography (1) mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography (1) mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography (1) mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography (1) mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography (1) mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography (1) mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography (1) mean Sea Surface (1), Mean Dynamic Topography height (coulden 1) and the Mean Dynamic Topography height (coulde	CS_OFFL_SIR_IOPR_2_20200208T073213_20200208T074158_C001		
Topography (1)  CS_OFFL_SIR_JOPR_2_20200208T092055_20200208T092222_C001  Mean Sea Surface (1), Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporation (1), and did corrections for one or more records Corporative (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporation (1), and did corrections for one or more records Corporative (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporative (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporative (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporative (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporative (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporative (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (FS_S), Not-Squilbruin Long Percol Corporative (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography (1) Total Geocentric Ocean Tise (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (1), Mean Dynamic Topography (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tise (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tise (1), Mean Dynamic Topography (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tise (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1).  CS_OFFL_SIR_JOPR_2_20200208T172842_20200208T17	CS_OFFL_SIR_IOPR_2_20200208T074158_20200208T074335_C001		
Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T105356_20200208T105388_C001  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1), and the Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1), and the Mean Dynamic Topography (eduction 1)  CS_OFFL_SIR_IOPR_2_20200208T123611_20200208T123711_C001  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1) and the Mean Dynamic Topography (eduction 1)  CS_OFFL_SIR_IOPR_2_20200208T123711_20200208T123711_C001  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  CS_OFFL_SIR_IOPR_2_20200208T123711_20200208T123711_C001  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  CS_OFFL_SIR_IOPR_2_20200208T123711_20200208T124019_C001  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography height (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography height (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography height (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography height (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography height (eduction 1)  Mean Sea Surface (1), Mean Dynamic Topography height (eduction 1)  Mean S	CS_OFFL_SIR_IOPR_2_20200208T091433_20200208T092055_C001		
CS_OFFL_SIR_IOPR_2_20200208T105356_20200208T105398_C001  Topography (1), Total Geocentric Ocean Tide (CS_T) Total Geocentric Common Tide (CS_T) Total Geocentric Comparaby (1)  Mean Sea Surface (1), Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography height (colution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (colution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (colution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (colution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (colution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (colution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with	CS_OFFL_SIR_IOPR_2_20200208T092055_20200208T092222_C001		
Topography (1)  Topography (2)  Topography (1)  Topography (1)  Topography (1)  Topography (2)  Topography (1)  Topography (1)  Topography (1)  Topography (1)  Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solutio	CS_OFFL_SIR_IOPR_2_20200208T105356_20200208T105938_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T123711_20200208T124019_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T141243_20200208T141932_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T155435_20200208T155858_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error wi	CS_OFFL_SIR_IOPR_2_20200208T105938_20200208T110051_C001		
Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T141243_20200208T141932_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T155435_20200208T155958_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T172243_20200208T172440_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T173342_20200208T173858_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T173858_20200208T174137_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T191154_20200208T192117_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T191154_20200208T192117_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T205310_20200208T210038_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T223207_20200208T223748_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (s	CS_OFFL_SIR_IOPR_2_20200208T123619_20200208T123711_C001		
Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T155435_20200208T155958_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20200208T123711_20200208T124019_C001		
Topography (1)  Topography (2)  Topography (2)  Topography (3)  Topography (4)  Topography (5)  Topography (5)  Topography (6)  Topography (7)  Topography (8)  Topography (8)  Topography (9)  Topography (1)  Topography (2)  Topography (1)  Topography (8)  Topography (1)  Topography (1)  Topography (8)  Topography (1)  Topography (8)  Topography (1)  Topography (1)  Topography (8)  Topography (1)  Topography (1)  Topography (8)  Topography (8)  Topography (9)  Topography (9)	CS_OFFL_SIR_IOPR_2_20200208T141243_20200208T141932_C001		
CS_OFFL_SIR_IOPR_2_20200208T173342_20200208T173858_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T173858_20200208T174137_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20200208T155435_20200208T155958_C001		
Topography (1)  Topography (2 202002081173342 202002081173858 C001  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20200208T172243_20200208T172440_C001		
Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T191154_20200208T192117_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height for one or	CS_OFFL_SIR_IOPR_2_20200208T173342_20200208T173858_C001		
Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T205310_20200208T210038_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height for one or	CS_OFFL_SIR_IOPR_2_20200208T173858_20200208T174137_C001		
Topography (1)  CS_OFFL_SIR_IOPR_2_20200208T223207_20200208T223748_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPR_2_20200208T223207_20200208T223748_C001  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or	CS_OFFL_SIR_IOPR_2_20200208T191154_20200208T192117_C001		
Topography (1)  Topography height (solution 1)  Topography height (solution 1)  Topography height (solution 1)  Topography height (solution 1)  There is an error with the Mean Dynamic Topography (1)	CS_OFFL_SIR_IOPR_2_20200208T205310_20200208T210038_C001		
	CS_OFFL_SIR_IOPR_2_20200208T223207_20200208T223748_C001		
	CS_OFFL_SIR_IOPR_2_20200208T223802_20200208T223927_C001		

# 5.5 L2 Measurement Confidence Data Check

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.
- > OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Number of products with errors: 105

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200207T235143_20200208T000714_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T000907_20200208T001412_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T001419_20200208T001430_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T002203_20200208T002405_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T004548_20200208T004814_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T011455_20200208T011504_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T012932_20200208T014627_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T015350_20200208T015523_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T015923_20200208T022450_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T025937_20200208T032607_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T032723_20200208T033229_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T033248_20200208T033613_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T033831_20200208T040645_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T040811_20200208T041115_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T043503_20200208T043708_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T043713_20200208T050535_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T051146_20200208T051519_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T051750_20200208T055257_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T060612_20200208T060754_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T063700_20200208T063955_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T064155_20200208T064504_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T064648_20200208T065209_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T065739_20200208T072016_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Deep CHILD BIT (PMT 2 2020000TT0440 202000TT0440 COID  COID FIRST (PMT 2 2020000TT0440 202000TT0440 COID  COID FIRST (PMT 2 2020000TT0440 202000TT0440 COID  COID FIRST (PMT 2 2020000TT0440 2020000TT0440 COID  COID FIRST (PMT 2 2020000TT0440 202000TT0441 COID  COID FIRST (PMT 2 2020000TT0440 2020000TT0441 COID  COID FIRST (PMT 2 2020000TT0440 202000TT0441 COID  COID FIRST (PMT 2 2020000TT0440 2020000TT0441 COID  COID FIRST (PMT 2 2020000TT0440 202000TT04411 COID  COID FIRST (PMT 2 2020000TT0440 2020000TT0441 COID  COID FIRST (PMT 2 2020000TT0440 2020000TT04411 COID  COID FIRST (PMT 2 2020000TT0440 202000TT04411 COID  COID FIRST (PMT 2 2020000TT0441 COID  COID FIRST (PMT 2 2020000TT0440 202000TT04411 COID  COID FIRST (PMT 2 2020000TT0440 202000TT04411 COID  COID FIRST (PMT 2 2020000TT0440 202000TT04411 COID  COID FIRST (PMT 2 2020000TT0441 COID FIRST (PMT 2 2020000T	CS_OFFL_SIR_IOPM_2_20200208T072301_20200208T073212_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Commonwealth   Comm	CS_OFFL_SIR_IOPM_2_20200208T074439_20200208T074829_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
### COOPER_SEN_OPER_2_2000008T109189_2000098T10919_COOPER_SEN_OPER_2_2000008T10919_2000008T10919_20008T10919_2	CS_OFFL_SIR_IOPM_2_20200208T075406_20200208T075419_C001		
Co. OFF_SR_CPM_2_20000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20200208T080424_20200208T080911_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Basecater Caulty  Down Allinete Regulary and Basecater Caulty  Exp. DPF_SRI_OPM_2 70000081104587 2000091104511 COIT  One Allinete Regular Debuggetian Caulty  CSC OFF_SRI_OPM_2 20000081104592 20000081104511 COIT  One Allinete Regular Debuggetian Caulty  Down Allinete Regular Debugge	CS_OFFL_SIR_IOPM_2_20200208T081059_20200208T082414_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOFM_2_200000081104029_20000001104011_C001  Ober Allimeter Range_SSA, SWA Ober Allimeter Range ober Range Ober Allimeter Range obe	CS_OFFL_SIR_IOPM_2_20200208T082719_20200208T083108_C001		
CS_OFFL_SRI_IOPM_2_20000081104092_20000081104091_COO  Allesieve Regular off Devolucional County  CS_OFFL_SRI_IOPM_2_2000008108191_20000081081011_COO  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  CS_OFFL_SRI_IOPM_2_2000008108191_20000081081811_COO  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  CS_OFFL_SRI_IOPM_2_2000008108191_2000  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  Endoscore County  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  Endoscore County  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  Endoscore County  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  Endoscore County  Doesn Allemeter Regular, SSA4_SWH and Endoscore County  Doesn Allemeter Regular and Endoscore County  Doesn Alle	CS_OFFL_SIR_IOPM_2_20200208T083657_20200208T084311_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20202028T10219_200208T110519_2001  CS_OFFL_SIR_IOPM_2_20202028T10219_200208T100519_2001  CS_OFFL_SIR_IOPM_2_20202028T10219_200208T100519_2001  CS_OFFL_SIR_IOPM_2_20202028T10219_200208T100519_2001  CS_OFFL_SIR_IOPM_2_20202028T10009_2002008T100519_2001  CS_OFFL_SIR_IOPM_2_20202028T10009_2002008T100019_2001  CS_OFFL_SIR_IOPM_2_20202028T100019_2002008T100019_2001  CS_OFFL_SIR_IOPM_2_20202028T100019_2002008T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T100019_2002008T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T100019_2002008T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T100019_2002008T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T1100019_2002008T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T100019_2002008T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T1100019_2002028T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T1100019_2002028T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T1100019_2002028T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T1100019_20202028T1100019_2001  CS_OFFL_SIR_IOPM_2_20202028T1100019_20202028T1100019_2001  CS_	CS_OFFL_SIR_IOPM_2_20200208T084320_20200208T084911_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_2000008110344_20000281109347_C001	CS_OFFL_SIR_IOPM_2_20200208T085119_20200208T090916_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Allimeter Range and Backscatter Quality Flags have been set to come of more second.  CE_OFFL_SIR_IOPM_2_20200208110182_20202081101913_C001  CS_OFFL_SIR_IOPM_2_202002081101844_C001  CS_OFFL_SIR_IOPM_2_202002081101844_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081102816_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_20202081108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_202002081103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103914_202020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103914_2020020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103914_2020020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103918_2020020811108916_C001  CS_OFFL_SIR_IOPM_2_2020020811103918_2020020811108916_C001  CS_OFFL_SIR_IOPM_2_202002081110398_202002081110396_C001  CS_OFFL_SIR_IOPM_2_202002081110398_202002	CS_OFFL_SIR_IOPM_2_20200208T092757_20200208T093419_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  To ne or more records.  The Occan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T103406_20200208T103434_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103434_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103434_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T103404_C001  CS_OFFL_SIR_IOPM_2_20200208T103404_20200208T1103404_C001  CS_OFFL_SIR_IOPM_2_20200208T1103404_C001  CS_	CS_OFFL_SIR_IOPM_2_20200208T093454_20200208T095847_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_JOPM_2_20200208T102400_2020028T102450_C001  CS_OFFL_SIR_JOPM_2_20200208T103099_20200208T10344_C001  CS_OFFL_SIR_JOPM_2_20200208T103914_20200208T104515_C001  CS_OFFL_SIR_JOPM_2_20200208T103914_20200208T105210_C001  CS_OFFL_SIR_JOPM_2_20200208T103914_20200208T105210_C001  CS_OFFL_SIR_JOPM_2_20200208T103914_20200208T105210_C001  CS_OFFL_SIR_JOPM_2_20200208T102912_20200208T105210_C001  CS_OFFL_SIR_JOPM_2_20200208T102912_20200208T105210_C001  CS_OFFL_SIR_JOPM_2_20200208T102912_20200208T105210_C001  CS_OFFL_SIR_JOPM_2_20200208T102912_20200208T105210_C001  CS_OFFL_SIR_JOPM_2_20200208T102912_20200208T1105210_C001  CS_OFFL_SIR_JOPM_2_20200208T102912_20200208T1105210_C001  CS_OFFL_SIR_JOPM_2_20200208T10748_20200208T110520_C001  CS_OFFL_SIR_JOPM_2_20200208T110748_20200208T111052_C001  CS_OFFL_SIR_JOPM_2_20200208T110748_20200208T111052_C001  CS_OFFL_SIR_JOPM_2_20200208T111132_20200208T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T111335_C0000  CS_OFFL_SIR_JOPM_2_20200208T111335_C000008T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T111335_C00008T111335_C001  CS_OFFL_SIR_JOPM_2_20200208T111335_C0008T111335_C0008T111335_C0008T111335_C0008T11	CS_OFFL_SIR_IOPM_2_20200208T100820_20200208T101013_C001		
CS_OFFL_SIR_IOPM_2_20200208T103019_20200208T104015_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T104015_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T104015_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T10601_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T10601_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T10601_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T110601_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T10601_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T10601_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T105010_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T105010_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T105010_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T105001_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T103014_C001  CS_OFFL_SIR_IOPM_2_20200208T103014_20200208T103014_C001  CS_OFFL_SIR_IOPM_2_20200208T1103014_20200208T110301_C001  CS_OFFL_SIR_IOPM_2_20200208T1103014_20200208T110301_C001  CS_OFFL_SIR_IOPM_2_20200208T1103014_20200208T110301_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T110301_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T110301_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T110301_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T110301_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T1103001_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T1103001_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T1103001_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T1103001_C001  CS_OFFL_SIR_IOPM_2_20200208T110301_20200208T1103001_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T1103001_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T11030001_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T11030001_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T11030001_C001  CS_OFFL_SIR_IOPM_2_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T110001_20200208T1	CS_OFFL_SIR_IOPM_2_20200208T101647_20200208T102331_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. Grown or more records.  CS_OFFL_SIR_IOPM_2_20200208T103914_20200208T104615_CO01  CS_OFFL_SIR_IOPM_2_20200208T103914_20200208T106210_CO01  CS_OFFL_SIR_IOPM_2_20200208T105012_20200208T105210_CO01  CS_OFFL_SIR_IOPM_2_20200208T105012_20200208T105210_CO01  CS_OFFL_SIR_IOPM_2_20200208T105012_20200208T105210_CO01  CS_OFFL_SIR_IOPM_2_20200208T105012_20200208T105010_CO01  CS_OFFL_SIR_IOPM_2_20200208T105012_20200208T105010_CO01  CS_OFFL_SIR_IOPM_2_20200208T110748_20200208T11052_CO01  CS_OFFL_SIR_IOPM_2_20200208T110748_20200208T11052_CO01  CS_OFFL_SIR_IOPM_2_20200208T110748_20200208T11052_CO01  CS_OFFL_SIR_IOPM_2_20200208T111332_CO01  CS_OFFL_SIR_IOPM_2_20200208T111332_CO01  CS_OFFL_SIR_IOPM_2_20200208T111332_CO01  CS_OFFL_SIR_IOPM_2_20200208T111332_CO01  CS_OFFL_SIR_IOPM_2_20200208T111333_CO01  CS_OFFL_SIR_IOPM_2_20200208T111333_CO01  CS_OFFL_SIR_IOPM_2_20200208T111333_CO01  CS_OFFL_SIR_IOPM_2_20200208T111333_CO01  CS_OFFL_SIR_IOPM_2_20200208T111333_CO01  CS_OFFL_SIR_IOPM_2_20200208T111333_CO01  CS_OFFL_SIR_IOPM_2_20200208T111333_CO01  CS_OFFL_SIR_IOPM_2_20200208T111238_C001  CS_OFFL_SIR_IOPM_2_20200208T111238_C0010  CS_OFFL_SIR_IOPM_2_20200208T111238_C0010  CS_OFFL_SIR_IOPM_2_20200208T111238_C0010  CS_OFFL_SIR_IOPM_2_20200208T11238_C0010  CS_OFFL_SIR_IOPM_2_20200208T11238_C0010  CS_OFFL_SIR_IOPM_2_20200208T11238_C0010  CS_OFFL_SIR_IOPM_2_20200208T11238_C0010  CS_OFFL_SIR_IOPM_2_20200208T112000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T114142_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115001_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T112000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T112000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T112000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T1120	CS_OFFL_SIR_IOPM_2_20200208T102400_20200208T102950_C001		
and Backscatter Quality CCG Altimeter Range and Backscatter Quality Flags have been a Altimeter Range Quality, CCG Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T105012_20200208T105210_C001  CS_OFFL_SIR_IOPM_2_20200208T110213_20200208T110601_C001  CS_OFFL_SIR_IOPM_2_20200208T110213_20200208T110601_C001  CS_OFFL_SIR_IOPM_2_20200208T110213_20200208T110601_C001  CS_OFFL_SIR_IOPM_2_20200208T110213_20200208T11052_C001  CS_OFFL_SIR_IOPM_2_20200208T11032_20200208T11052_C001  CS_OFFL_SIR_IOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T111338_20000208T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T112038_20200208T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T114088_C00008T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T114088_C00008T1141428_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T114928_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115009_C001  CS_OFFL_	CS_OFFL_SIR_IOPM_2_20200208T103009_20200208T103434_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200208T110213_20200208T110601_C001  DCGG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T110748_20200208T111052_C001  CS_OFFL_SIR_IOPM_2_20200208T110748_20200208T111052_C001  CS_OFFL_SIR_IOPM_2_20200208T111132_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T111335_C001  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T111335_C001  DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T111335_C001  DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  DCGG	CS_OFFL_SIR_IOPM_2_20200208T103914_20200208T104615_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200208T110748_20200208T111052_C001  CS_OFFL_SIR_IOPM_2_20200208T111732_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T111332_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T111332_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T111453_20200208T112318_C001  CS_OFFL_SIR_IOPM_2_20200208T111453_20200208T112318_C001  CS_OFFL_SIR_IOPM_2_20200208T112338_20200208T112318_C001  CS_OFFL_SIR_IOPM_2_20200208T112338_20200208T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T1141028_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115002_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T1120309_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T12102000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115402_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T12102000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T12102000_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T12042_0_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_202002	CS_OFFL_SIR_IOPM_2_20200208T105012_20200208T105210_C001		
CS_OFFL_SIR_IOPM_2_20200208T111074B_20200208T111052_C001  and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T11132_20200208T111335_C001  CS_OFFL_SIR_IOPM_2_20200208T11132_20200208T112318_C001  CS_OFFL_SIR_IOPM_2_20200208T112938_20200208T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T114928_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T1120309_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T1120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T1120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T1120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T1120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001	CS_OFFL_SIR_IOPM_2_20200208T110213_20200208T110601_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T111453_20200208T112318_C001  CS_OFFL_SIR_IOPM_2_20200208T11238_20200208T11414_C001  CS_OFFL_SIR_IOPM_2_20200208T112938_20200208T11414_C001  CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T114928_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  COCAN Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  COCAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T12102_C001  COCAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T1210420_20200208T1210420_20200208T1210420_20200208T1210420_20200208T12	CS_OFFL_SIR_IOPM_2_20200208T110748_20200208T111052_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T112938_20200208T114114_C001  CS_OFFL_SIR_IOPM_2_20200208T112938_20200208T114928_C001  CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T114928_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T121242_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_	CS_OFFL_SIR_IOPM_2_20200208T111132_20200208T111335_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200208T112938_20200208T114114_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T114928_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  CS_OFFL_SIR_IOPM_2_20200208T115601_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T112601_20200208T120309_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T120102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T122748_C001  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121002_C001  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T120402_20200208T120402_2000208T120402_2000208T120402_2000208T120402_2000208T120402_2000208T12040	CS_OFFL_SIR_IOPM_2_20200208T111453_20200208T112318_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001  DCOG Altimeter Range Quality, OCOG Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T120309_C001  DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  DCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Al	CS_OFFL_SIR_IOPM_2_20200208T112938_20200208T114114_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Fl	CS_OFFL_SIR_IOPM_2_20200208T114707_20200208T114928_C001		
CS_OFFL_SIR_IOPM_2_20200208T115601_20200208T120309_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200208T115001_20200208T115422_C001		
CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20200208T115601_20200208T120309_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200208T121242_20200208T122748_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200208T120420_20200208T121102_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20200208T121242_20200208T122748_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20200208T122758_20200208T122809_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T125418_20200208T125645_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T130602_20200208T132222_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T132454_20200208T133331_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T133550_20200208T135828_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T143528_20200208T150142_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T150655_20200208T151129_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T151410_20200208T151915_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T151955_20200208T154403_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T154821_20200208T155020_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T161308_20200208T164100_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T164612_20200208T165205_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T165332_20200208T171536_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T171612_20200208T171840_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T174437_20200208T181934_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T182519_20200208T183036_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T183215_20200208T183516_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T183715_20200208T183918_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T190805_20200208T191042_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T191147_20200208T191154_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T192445_20200208T193321_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T193607_20200208T195841_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T200528_20200208T200934_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T201059_20200208T202439_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T202626_20200208T203243_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T203417_20200208T203900_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T210414_20200208T213718_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20200208T213904_20200208T214418_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T215118_20200208T215217_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T215518_20200208T222542_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T222721_20200208T223028_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T224105_20200208T224106_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T224539_20200208T225840_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T230042_20200208T231631_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T231813_20200208T232316_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T233241_20200208T234254_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200208T234912_20200209T000031_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T025601_20200208T025937_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T063422_20200208T063426_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T074829_20200208T074858_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T083108_20200208T083439_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T115422_20200208T115601_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T173043_20200208T173100_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T223111_20200208T223207_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T234631_20200208T234700_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T042500_20200208T042611_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T055640_20200208T060300_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T091433_20200208T092055_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T093420_20200208T093454_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T123429_20200208T123514_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T141206_20200208T141243_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T142526_20200208T142610_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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## L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.
- > OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

Number of products with errors:

94

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200208T001553_20200208T002203_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T005300_20200208T005423_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T005739_20200208T010152_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T011827_20200208T012136_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T014630_20200208T014856_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T015523_20200208T015836_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T023625_20200208T024014_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T025601_20200208T025937_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T032608_20200208T032723_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T041115_20200208T041706_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T042739_20200208T042752_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T050543_20200208T050706_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T051519_20200208T051634_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T055258_20200208T055429_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T055505_20200208T055640_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T060834_20200208T060956_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T062547_20200208T062606_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T065209_20200208T065517_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T074335_20200208T074408_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T080057_20200208T080424_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T082505_20200208T082718_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T100546_20200208T100820_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T101445_20200208T101638_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T110052_20200208T110213_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20200208T112832_20200208T112938_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T114114_20200208T114707_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T123514_20200208T123618_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T124019_20200208T124231_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T124350_20200208T124618_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T124813_20200208T124935_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T125646_20200208T125808_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T132311_20200208T132454_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T133331_20200208T133532_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T141932_20200208T142421_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T150245_20200208T150408_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T150558_20200208T150655_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T151130_20200208T151348_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T155415_20200208T155435_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T165205_20200208T165331_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T173315_20200208T173341_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T174316_20200208T174437_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T182206_20200208T182519_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T185254_20200208T185438_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T190301_20200208T190423_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T195953_20200208T200403_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T204724_20200208T204809_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T204911_20200208T205310_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T231632_20200208T231813_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T232519_20200208T232736_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200208T234254_20200208T234359_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T005423_20200208T005641_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	L
CS_OFFL_SIR_IOPR_2_20200208T005647_20200208T005738_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T010153_20200208T010818_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T010818_20200208T010848_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T012321_20200208T012931_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T024014_20200208T024848_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T033730_20200208T033830_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T041707_20200208T042448_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T042752_20200208T042908_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T043413_20200208T043448_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T051635_20200208T051750_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T055429_20200208T055504_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T055640_20200208T060300_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T060755_20200208T060833_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T060956_20200208T061014_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T073213_20200208T074158_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T074158_20200208T074335_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T091433_20200208T092055_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T092055_20200208T092222_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T092240_20200208T092639_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T100223_20200208T100546_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T104837_20200208T104906_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T104916_20200208T104932_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T105356_20200208T105938_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T123429_20200208T123514_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T124231_20200208T124350_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T132223_20200208T132310_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T135828_20200208T135923_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20200208T141243_20200208T141932_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T155435_20200208T155958_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T172108_20200208T172138_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T172243_20200208T172440_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T173858_20200208T174137_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T181934_20200208T182206_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T191154_20200208T192117_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T192133_20200208T192207_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T205310_20200208T210038_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T210048_20200208T210059_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T210208_20200208T210414_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T223802_20200208T223927_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T224242_20200208T224438_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T225840_20200208T230042_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T232736_20200208T233241_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200208T234700_20200208T234912_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

### L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

184

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors:

### 5.8 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20Hz)

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: 4

### L2 Retracking Flags (20Hz, PLRM)

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

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 146

## 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.

#### 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).

Currently, there are some common auxiliary correction errors 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.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20200208T001423_20200208T010358_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200208T015336_20200208T024312_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T024312_20200208T033250_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T033250_20200208T042226_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20200208T042226_20200208T051204_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T051204_20200208T060139_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200208T060139_20200208T065117_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200208T065117_20200208T074053_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T074053_20200208T083031_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T083031_20200208T092006_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T092006_20200208T100944_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T100944_20200208T105920_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20200208T105920_20200208T114858_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20200208T114858_20200208T123833_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T123833_20200208T132811_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T132811_20200208T141747_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T141747_20200208T150725_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T150725_20200208T155701_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200208T155701_20200208T164639_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20200208T164639_20200208T173614_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T173614_20200208T182552_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T182552_20200208T191528_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T191528_20200208T200506_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T200506_20200208T205441_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records

CS_OFFL_SIR_IOP_220200208T205441_20200208T214419_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200208T214419_20200208T223355_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200208T223355_20200208T232333_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200208T232333_20200209T001309_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

## 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

### 6.6 P2P Measurement Quality Flag Check

### P2P Quality Flags (20Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

### P2P Quality Flags (20Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 28

#### P2P Quality Flags (1 Hz & 1Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 2

#### 6.8 P2P Ocean Retracking Quality Check

## P2P Retracking Flags (20Hz)

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 (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 26

### P2P Retracking Flags PLRM

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

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 29