

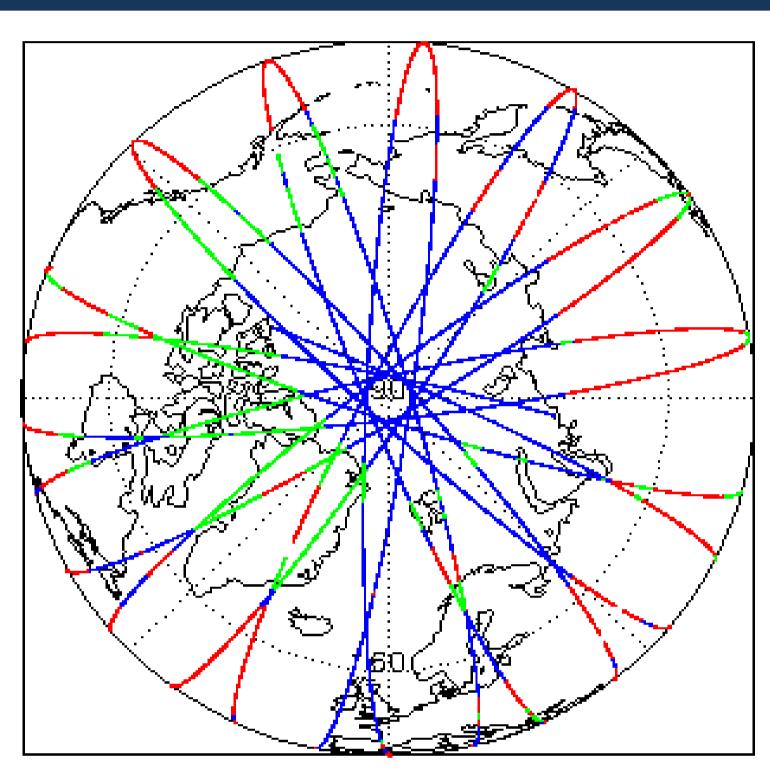
# 1. Overview

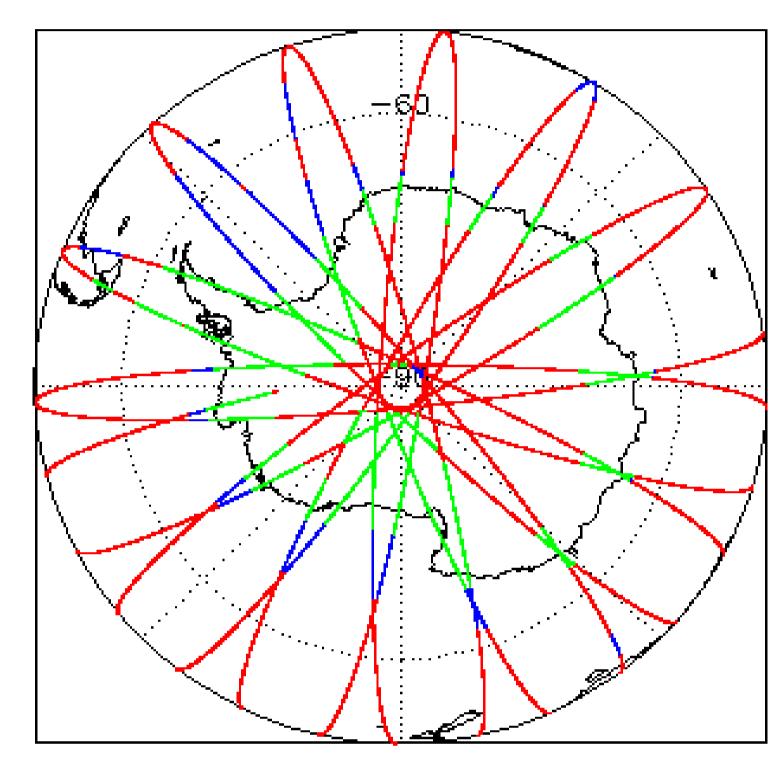
Report Production:	06-Apr-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

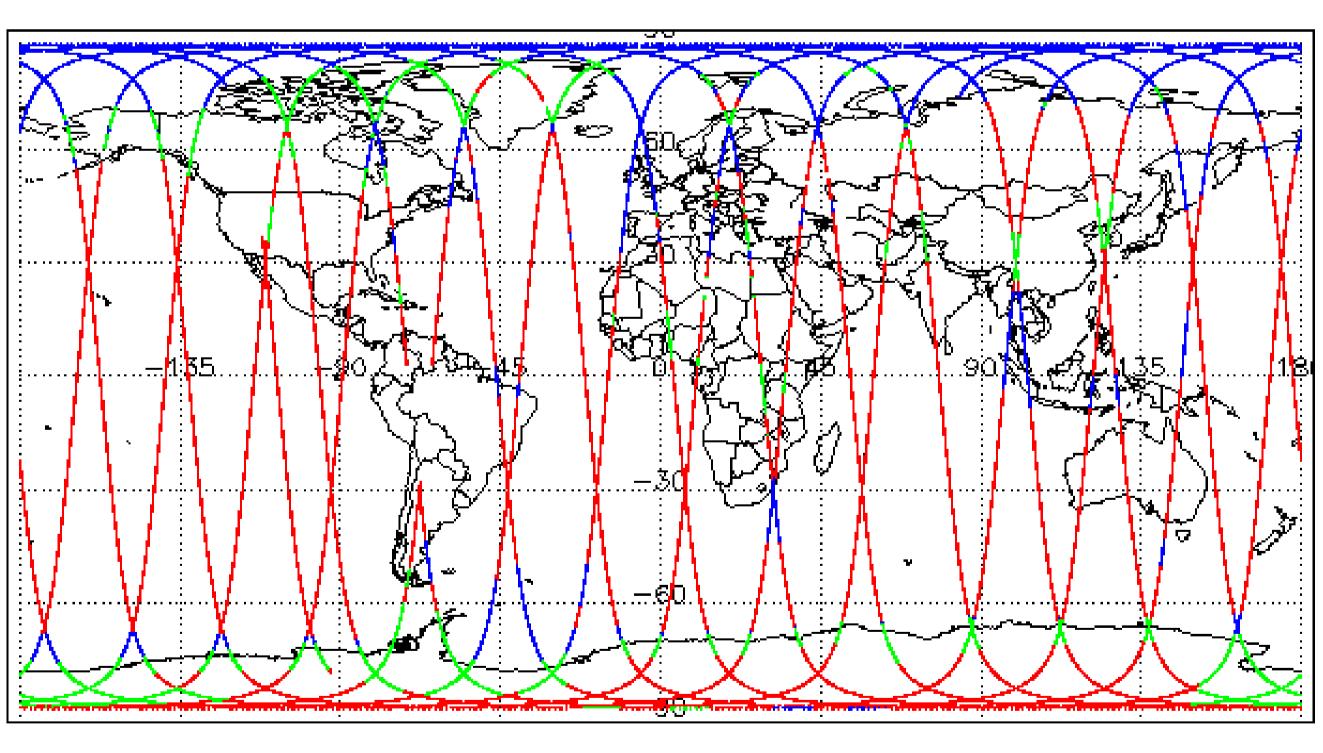
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
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

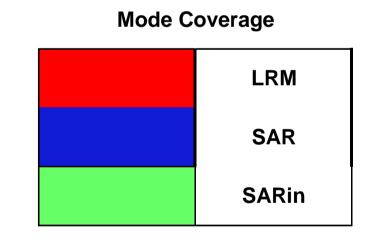
Mission / Instrument News		
02-Apr-2020	SIRAL unavailability on 02-Apr-2020 from 18:09:28 to 19:56:53 due to a planned collision avoidance manoeuvre.	
03-Apr-2020	None	
04-Apr-2020	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. 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:

0

#### **4.4 L1B Auxiliary Correction Error Check**

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

**Number of products with errors:** 

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200403T150702_20200403T151027_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

**Number of products with errors:** 

18

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200403T141021_20200403T144345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200403T213429_20200403T213642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T063417_20200403T063942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T090649_20200403T090911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T094600_20200403T094943_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T104607_20200403T104754_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T121825_20200403T121856_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T131433_20200403T131725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T153310_20200403T153403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T185508_20200403T185622_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T195005_20200403T195135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T203036_20200403T203536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200403T212817_20200403T213429_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200403T091134_20200403T091459_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200403T135254_20200403T140531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200403T171703_20200403T172714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200403T190530_20200403T190928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200403T220651_20200403T221009_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. OP Level 2 Data Quality Check

#### **5.1 L2 Product Format Check**

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

Number of products with errors: 0

#### **5.2 L2 Product Header Analysis**

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

Number of products with errors: 0

# 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### **5.4 L2 Auxiliary Correction Error Check**

For all products, the auxiliary corrections within the 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.

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- > 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200403T082008_20200403T083550_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_20200403T000012_20200403T000207_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_20200403T041015_20200403T041117_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200403T044839_20200403T045005_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_20200403T045515_20200403T045822_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_20200403T062916_20200403T063208_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_20200403T063417_20200403T063942_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_20200403T072513_20200403T072936_C001	wean Sea Surrace (1), wean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS), Non-Equilibrium Long Period	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_20200403T080852_20200403T081128_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_20200403T090410_20200403T090522_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_20200403T094600_20200403T094943_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_20200403T104331_20200403T104555_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_20200403T104607_20200403T104754_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_20200403T112612_20200403T112802_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_20200403T113623_20200403T113839_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_20200403T122322_20200403T122752_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_20200403T130547_20200403T130726_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_20200403T140531_20200403T141021_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200403T144543_20200403T144924_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_20200403T162509_20200403T162827_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_20200403T171600_20200403T171703_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_20200403T181245_20200403T181353_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_20200403T203036_20200403T203536_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_20200403T212817_20200403T213429_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_20200403T221009_20200403T221420_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_20200403T225855_20200403T230116_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_20200403T230746_20200403T231100_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_20200403T234854_20200403T235242_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200403T004259_20200403T005306_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_IOPR_2_20200403T022025_20200403T022714_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_IOPR_2_20200403T022714_20200403T022803_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_IOPR_2_20200403T023824_20200403T023920_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200403T035907_20200403T040611_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_IOPR_2_20200403T040611_20200403T040735_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_IOPR_2_20200403T053814_20200403T054510_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_IOPR_2_20200403T054510_20200403T054739_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_IOPR_2_20200403T071941_20200403T072404_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_IOPR_2_20200403T072404_20200403T072513_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_IOPR_2_20200403T085737_20200403T090054_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_IOPR_2_20200403T090054_20200403T090410_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_IOPR_2_20200403T101558_20200403T102310_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200403T103715_20200403T104331_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_IOPR_2_20200403T121856_20200403T122322_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_IOPR_2_20200403T135254_20200403T140531_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_IOPR_2_20200403T153648_20200403T154434_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_IOPR_2_20200403T171703_20200403T172714_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_IOPR_2_20200403T185622_20200403T190337_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_IOPR_2_20200403T203536_20200403T204254_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_IOPR_2_20200403T221420_20200403T221635_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_IOPR_2_20200403T221635_20200403T222114_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_IOPR_2_20200403T235242_20200404T000130_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)

### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200403T150702_20200403T151027_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

### 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200403T000239_20200403T003124_C001	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200403T005427_20200403T010127_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_20200403T010237_20200403T012908_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_20200403T013041_20200403T013548_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_20200403T013555_20200403T013923_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_20200403T014203_20200403T021647_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_20200403T030230_20200403T030902_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_20200403T031040_20200403T031621_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_20200403T032126_20200403T035531_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_20200403T040920_20200403T041015_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_20200403T041510_20200403T041621_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_20200403T042851_20200403T044831_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_20200403T050032_20200403T053514_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_20200403T054925_20200403T054937_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_20200403T055950_20200403T060423_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_20200403T060507_20200403T062241_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_20200403T062536_20200403T062722_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_20200403T064117_20200403T071046_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_20200403T071525_20200403T071604_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_20200403T071655_20200403T071703_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_20200403T073018_20200403T074837_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_20200403T074931_20200403T080300_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_20200403T081447_20200403T081829_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_20200403T082008_20200403T083550_C001  CS_OFFL_SIR_IOPM_2_20200403T082008_20200403T083550_C001  CS_OFFL_SIR_IOPM_2_20200403T083752_20200403T090649_C001  CS_OFFL_SIR_IOPM_2_20200403T090622_20200403T090649_C001  CS_OFFL_SIR_IOPM_2_20200403T090622_20200403T090649_C001  CS_OFFL_SIR_IOPM_2_20200403T090632_20200403T090649_C001  CS_OFFL_SIR_IOPM_2_20200403T091459_20200403T090632_C001  CS_OFFL_SIR_IOPM_2_20200403T09443_20200403T095730_C001  CS_OFFL_SIR_IOPM_2_20200403T094943_20200403T095730_C001  CS_OFFL_SIR_IOPM_2_20200403T095919_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101457_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101458_C	Flags re been
Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T090522_20200403T090649_C001  CS_OFFL_SIR_IOPM_2_20200403T091459_20200403T092632_C001  CS_OFFL_SIR_IOPM_2_20200403T091459_20200403T092632_C001  CS_OFFL_SIR_IOPM_2_20200403T09443_20200403T095730_C001  CS_OFFL_SIR_IOPM_2_20200403T095919_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T095919_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T1014538_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113382_C001  CCS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113582_C001  CCS_OFFL_SIR_IOPM_	een set Flags een set Flags een set Flags een set Flags een set
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200403T091459_20200403T092632_C001  Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200403T091459_20200403T092632_C001  CS_OFFL_SIR_IOPM_2_20200403T094943_20200403T095730_C001  CS_OFFL_SIR_IOPM_2_20200403T095919_20200403T01454_C001  CS_OFFL_SIR_IOPM_2_20200403T095919_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T103157_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113623_C001  Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113623_C001  Backscatter Quality  The Ocean Altimeter Range and Backscatter Quality Flags have I for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have I for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have I for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have I for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T103157_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113623_C001  DCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have I for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113623_C001  DCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have I for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113623_C001  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T113027_20200403T113623_C001  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T113027_20200403T113623_C001  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T113027_20200403T113623_C001  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.	Flags een set Flags een set Flags een set
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags haset for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T094943_20200403T095730_C001  CS_OFFL_SIR_IOPM_2_20200403T095919_20200403T101454_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T103157_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T103157_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T112538_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113623_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T113623_C001  CS_OFFL_SIR_IOPM_2_20200403T113027_20200403T113623_C001	een set Flags een set Flags een set
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter Quality Flags have a composite of the Ocean Altimeter Range and Backscatter	Flags re been een set Flags re been
CS_OFFL_SIR_IOPM_2_20200403T101454_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T103157_C001  CS_OFFL_SIR_IOPM_2_20200403T102748_20200403T103157_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T112538_C001  CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T112538_C001  CS_OFFL_SIR_IOPM_2_20200403T113027_20200403T113623_C001	een set
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range and Backscatter Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have II  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have II  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have II  OCOG Altimeter Range Quality, OCOG	Flags e been
CS_OFFL_SIR_IOPM_2_20200403T105251_20200403T112538_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range and Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have I  OCOG Altimeter Range Quality, OCOG	e been
US OFFI SIR TOPM / 202004031113027 202004031113623 C001	en set
CS_OFFL_SIR_IOPM_2_20200403T113843_20200403T120444_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T123553_20200403T130440_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T131013_20200403T131433_C001  OCOG Altimeter Range Quality, OCOG For one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have In the OCOG Altimeter Range and Backscatter Part Flags have In the OCOG Altimeter Range and Backscatter	∍en set
CS_OFFL_SIR_IOPM_2_20200403T131729_20200403T134530_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T134541_20200403T134732_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	∍en set
CS_OFFL_SIR_IOPM_2_20200403T141021_20200403T144345_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T144924_20200403T145503_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	∍en set
CS_OFFL_SIR_IOPM_2_20200403T145623_20200403T150247_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T154841_20200403T162307_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T162827_20200403T163340_C001  OCOG Altimeter Range Quality, OCOG for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.	∍en set
CS_OFFL_SIR_IOPM_2_20200403T163524_20200403T165524_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T172714_20200403T180053_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T180607_20200403T180827_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have In for one or more records.	en set
CS_OFFL_SIR_IOPM_2_20200403T180833_20200403T181245_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	en set
CS_OFFL_SIR_IOPM_2_20200403T181448_20200403T184317_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T184341_20200403T185107_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	•
CS_OFFL_SIR_IOPM_2_20200403T190928_20200403T191803_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.	•

Security of the Company of State Control			
20. DTL 64 CPC 2 AZCADUD RESIA AZDINICTIONES DX  20. DTL 65 CPC 9 AZDINICTIONES DX  20	CS_OFFL_SIR_IOPM_2_20200403T192243_20200403T193438_C001	and Backscatter Quality, OCOG	, , , ,
Co. OFFL. St. OFFL. 2. ACCEVID-TIEVED SEZURIOTIES SEZURIO SE	CS_OFFL_SIR_IOPM_2_20200403T193626_20200403T194029_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
December   Control   Con	CS_OFFL_SIR_IOPM_2_20200403T194205_20200403T194725_C001		
State	CS_OFFL_SIR_IOPM_2_20200403T194744_20200403T194949_C001		
CR. CPHL S + 10PM 2 20000-2011/00EM 20000-2011/20EM CONTROL COLOR Abendor Parge on State Secretary Cutting Amendor Name Parge State Stat	CS_OFFL_SIR_IOPM_2_20200403T195450_20200403T195510_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
A	CS_OFFL_SIR_IOPM_2_20200403T195838_20200403T201103_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_IOFML2_2020437120795_2020407121015_CO01  An Electronic County of Control County of Control County of Control County of County of Control County of County	CS_OFFL_SIR_IOPM_2_20200403T201309_20200403T202521_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Secondaria Codility  Code OFFL SR 10PM 2 2000403720042 2000403721004 COD  Code Affirmed Range SR 15, SVI I and Secondaria Codility Right have been set to Code Affirmed Range and Backscrater Codility Right have been set to Code Affirmed Range and Backscrater Codility Right have been set to Code Affirmed Range and Backscrater Codility Right have been set to Code Affirmed Range and Backscrater Codility Right have been set to Code Affirmed Range Right Righ	CS_OFFL_SIR_IOPM_2_20200403T202745_20200403T202931_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Beadscate Quality, COGO Alleriner Range and Beadscate Quality,	CS_OFFL_SIR_IOPM_2_20200403T204254_20200403T204313_C001		·
os. OFFL_SIR_JOPM_2_2200403721313_2200403721260_C001  CS_OFFL_SIR_JOPM_2_2200403721270_2200403721260_C001  CS_OFFL_SIR_JOPM_2_2200403721260_C00403722000_C001  CS_OFFL_SIR_JOPM_2_2200403721260_C00403722000_C001  CS_OFFL_SIR_JOPM_2_2200403721260_C00403722000_C001  CS_OFFL_SIR_JOPM_2_2200403721260_C00403722000_C001  CS_OFFL_SIR_JOPM_2_2200403721260_C00403722000_C001  CS_OFFL_SIR_JOPM_2_2200403722000_C001720000_C001  CS_OFFL_SIR_JOPM_2_2200403722000_C001720000_C001720000_C001720000_C001720000_C0017200000_C0017200000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C001720000_C0017200000_C001720000_C001720000_C0017200000_C0017200000_C0017200000_C0017200000_C0017200000_C0017200000_C001720000000000000000000	CS_OFFL_SIR_IOPM_2_20200403T205234_20200403T210204_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backesater Quality  67 one or more records.  OS. OFFL.SR.JOPM.2.202004037212843.202044037212854.C001  OCG. Altrineter Range Quality. OCCG  Backesater Quality  OCG. Altrineter Range and Backscatter Quality Flags have been set for me or more records.  OCG. Altrineter Range. SSHA, SWH and Backscatter Quality Flags have been set for me or more records.  OCS. OFFL.SR.JOPM.2.202004037213429.202004037213842.C001  OCS. OFFL.SR.JOPM.2.202004037213429.202004037213842.C001  OCS. OFFL.SR.JOPM.2.202004037215585.20200403721590.C001  OCS. OFFL.SR.JOPM.2.202004037215816.20200403721590.C001  OCS. OFFL.SR.JOPM.2.202004037215816.20200403721590.C001  OCS. OFFL.SR.JOPM.2.202004037215816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.202004037215816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.202004037225816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.202004037225816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.202004037225816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.202004037225816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.202004037225816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.202004037225816.202004037220043.C001  OCS. OFFL.SR.JOPM.2.20200403722004037220040.C001  OCS. OFFL.SR.JOPM.2.202004037220060.C001  OCS. OFFL.SR.JOPM.2.202004037220060.C001  OCS. OFFL.SR.JOPM.2.202004037220060.C001  OCS. OFFL.SR.JOPM.2.202004037220060.C001  OCS. OFFL.SR.JOPM.2.202004037230060.C001  OCS. OFFL.S	CS_OFFL_SIR_IOPM_2_20200403T210406_20200403T211942_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records.  OCS_OFFL_SIR_JOPML2_20200403T212700_20200403T212817_C0001  OCS_OFFL_SIR_JOPML2_20200403T213702_20200403T213612_C0001  OCS_OFFL_SIR_JOPML2_20200403T213429_20200403T213612_C0001  OCS_OFFL_SIR_JOPML2_20200403T213429_20200403T213610_C0001  Affireder Range and Backscatter Quality Flags have been set for one or more secords.  CS_OFFL_SIR_JOPML2_20200403T230F44_20200403T230F46_C001  SOCOFA Alimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more secords.  CS_OFFL_SIR_JOPML2_20200403T231141_20200403T237746_C001  SOCOFA Alimeter Range Quality, OCOG Backscatter Quali	CS_OFFL_SIR_IOPM_2_20200403T212131_20200403T212626_C001		
Bockscater Quality  Go. OFFL_SIR_IOPM_2_202004037213429_202004037219642_C001  CS_OFFL_SIR_IOPM_2_202004037213429_20200403721656 202004037216700 C001  CS_OFFL_SIR_IOPM_2_20200403721556 202004037216700 C001  CS_OFFL_SIR_IOPM_2_20200403721556 20200403722033_C001  CS_OFFL_SIR_IOPM_2_20200403721586 20200403722033_C001  CS_OFFL_SIR_IOPM_2_20200403723316_20200403722033_C001  CS_OFFL_SIR_IOPM_2_20200403723316_20200403722333_C001  CS_OFFL_SIR_IOPM_2_20200403723316_202004037223580_C001  CS_OFFL_SIR_IOPM_2_202004037230589_20200403722560_C001  CS_OFFL_SIR_IOPM_2_202004037230589_20200403722560_C001  CS_OFFL_SIR_IOPM_2_202004037230589_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230589_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230589_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230589_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230589_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230688_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_202004037230689_C001  CS_OFFL_SIR_IOPM_2_202004037230689_20001  CS_OFFL_SIR_IOPM_2_20200403706850_C001  CS_OFFL_SIR_IOPM_2_202004037230689_20001  CS_OFFL_SIR_IOPM_2_202004037230689_20001  CS_OFFL_SIR_IOPM_2_202004037230689_20001  CS_OFFL_SIR_IOPM_2_20200403706850_C001  CS_OFFL_SIR_IOPM_2_20200403706850_C001  CS_OFFL_SIR_IOPM_2_20200403706850_C001  CS_OFFL_SIR_IOPM_2_20200403706850_C001  CS_OFFL_SIR_IOPM_2_20200403706850_C001  CS_OFFL_SIR_IOPM_2	CS_OFFL_SIR_IOPM_2_20200403T212643_20200403T212654_C001		, ,
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T215355_20200403T215700_C001  CS_OFFL_SIR_IOPM_2_20200403T215355_20200403T215700_C001  CS_OFFL_SIR_IOPM_2_20200403T215816_20200403T220043_C001  CS_OFFL_SIR_IOPM_2_20200403T215816_20200403T220043_C001  CS_OFFL_SIR_IOPM_2_20200403T215816_20200403T220043_C001  CS_OFFL_SIR_IOPM_2_20200403T223116_20200403T223133_C001  CS_OFFL_SIR_IOPM_2_20200403T223116_20200403T225850_C001  CS_OFFL_SIR_IOPM_2_20200403T223116_20200403T225850_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230748_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230748_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230748_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230748_C001  CS_OFFL_SIR_IOPM_2_20200403T230504_20200403T230748_C001  CS_OFFL_SIR_IOPM_2_20200403T230504_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T230504_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T230504_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T054142_20200403T2305048_C001  CS_OFFL_SIR_IOPM_2_20200403T054142_20200403T23	CS_OFFL_SIR_IOPM_2_20200403T212700_20200403T212817_C001		
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_20200403T223118_20200403T223133_C001  CS_OFFL_SIR_IOPM_2_20200403T223118_20200403T223133_C001  CS_OFFL_SIR_IOPM_2_20200403T224201_20200403T225850_C001  CS_OFFL_SIR_IOPM_2_20200403T224201_20200403T225850_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T225850_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230614 20200403T230746 C001  CS_OFFL_SIR_IOPM_2_20200403T230614 20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T233723_C000403T233723_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T233723_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T233723_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T233723_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T233723_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_C000403T234649_C001  CS_OFFL_SIR_IOPM_2_20200403T034242 0200403T005427 C001  CS_OFFL_SIR_IOPM_2_20200403T005412 20200403T005427 C001  CS_OFFL_SIR_IOPM_2_20200403T005412 20200403T005427 C001  CS_OFFL_SIR_IOPM_2_20200403T005422 20200403T005427 C001  CS_OFFL_SIR_IOPM_2_20200403T005427 C001  CS_OFFL_SIR_IOPM_2_20200403T005423_C000403T005427 C001  CS_OFFL_SIR_IOPM_2_20200403T005423_C000403T005427 C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001  CS_OFFL_SIR_IOPM_2_20200403T005425_C001	CS_OFFL_SIR_IOPM_2_20200403T213429_20200403T213642_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 Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T223116_20200403T223133_C001  CS_OFFL_SIR_IOPM_2_20200403T223116_20200403T225850_C001  CS_OFFL_SIR_IOPM_2_20200403T224201_20200403T225850_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230514_20200403T230746_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T237712_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T237712_C001  CS_OFFL_SIR_IOPM_2_20200403T23773_20200403T234649_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T05427_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T054252_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T054252_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T054252_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T054252_D001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T054252_D001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T054252_D001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T054252_D001  CS_OFFL_SIR_IOPM_2_20200403T05425	CS_OFFL_SIR_IOPM_2_20200403T215355_20200403T215700_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS OFFL SIR IOPM 2 20200403T224201 20200403T225550 C001  CS OFFL SIR IOPM 2 20200403T230559 20200403T230608 C001  CS OFFL SIR IOPM 2 20200403T230559 20200403T230608 C001  CS OFFL SIR IOPM 2 20200403T230614 20200403T230746 C001  CS OFFL SIR IOPM 2 20200403T231141 20200403T23712 C001  CS OFFL SIR IOPM 2 20200403T231141 20200403T23712 C001  CS OFFL SIR IOPM 2 20200403T231141 20200403T23712 C001  CS OFFL SIR IOPM 2 20200403T23723 20200403T234649 C001  CS OFFL SIR IOPM 2 20200403T23723 20200403T234649 C001  CS OFFL SIR IOPM 2 20200403T23723 20200403T05427 C001  CS OFFL SIR IOPM 2 20200403T05412 20200403T005427 C001  COGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.  CS OFFL SIR IOPM 2 20200403T005412 20200403T005427 C001  COGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  COGA Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or mor	CS_OFFL_SIR_IOPM_2_20200403T215816_20200403T220043_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001  CS_OFFL_SIR_IOPM_2_20200403T230614_20200403T230746_C001  CS_OFFL_SIR_IOPM_2_20200403T230614_20200403T230746_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T230746_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T234649_C001  CS_OFFL_SIR_IOPM_2_20200403T0233723_20200403T0234649_C001  CS_OFFL_SIR_IOPM_2_20200403T0233723_20200403T025457_C001  CS_OFFL_SIR_IOPM_2_20200403T025403_20200403T025459_C001  CS_OFFL_SIR_IOPM_2_20200403T025403_20200403T02550_C001  CS_OFFL_SIR_IOPN_2_20200403T025403_20200403T02569_C001  CS_OFFL_SIR_IOPN_2_20200403T025603_20200403T02569_C001  CCOG Altimeter Range Quality, OCOG Backscatter Quality  CS_OFFL_SIR_IOPN_2_20200403T025603_20200403T02569_C001  CCOG Altimeter Range RSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20200403T025603_20200403T02569_C001  CCOG Altimeter Range RSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20200403T025603_20200403T02569_C001  CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200403T223116_20200403T223133_C001		
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200403T230614_20200403T230746_C001  Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200403T230614_20200403T230746_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T23123723_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T234649_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T234649_C001  CS_OFFL_SIR_IOPM_2_20200403T005412_20200403T005427_C001  CS_OFFL_SIR_IOPM_2_20200403T005412_20200403T005427_C001  CS_OFFL_SIR_IOPM_2_20200403T005412_20200403T002829_C001  CS_OFFL_SIR_IOPM_2_20200403T002803_20200403T022829_C001  CS_OFFL_SIR_IOPM_2_20200403T002803_20200403T022829_C001  CS_OFFL_SIR_IOPM_2_20200403T002803_20200403T002829_C001  CS_OFFL_SIR_IOPM_2_20200403T002803_20200403T002889_C001  CS_OFFL_SIR_IOPM_2_20200403T002803_20200403T002889_C001  CS_OFFL_SIR_IOPM_2_20200403T002803_20200403T002889_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPM_2_20200403T224201_20200403T225850_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T234649_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T05427_C001  CS_OFFL_SIR_IOPM_2_20200403T05412_20200403T022829_C001  CS_OFFL_SIR_IOPM_2_20200403T022803_20200403T022829_C001  CS_OFFL_SIR_IOPM_2_20200403T022803_20200403T022829_C001  CS_OFFL_SIR_IOPM_2_20200403T022803_20200403T022829_C001  CS_OFFL_SIR_IOPM_2_20200403T094354_20200403T094550_C001  Backscatter Quality  for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T022803_20200403T022829_C001  CS_OFFL_SIR_IOPM_2_20200403T022803_20200403T094550_C001  DOCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T094354_20200403T094550_C001  DOCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T094354_20200403T094550_C001  DOCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T094354_20200403T094550_C001  DOCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200403T230559_20200403T230608_C001		
CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T234649_C001  CS_OFFL_SIR_IOPN_2_20200403T005412_20200403T005427_C001  CS_OFFL_SIR_IOPN_2_20200403T005412_20200403T005427_C001  CS_OFFL_SIR_IOPN_2_20200403T002803_20200403T002829_C001  CS_OFFL_SIR_IOPN_2_20200403T002803_20200403T002829_C001  CS_OFFL_SIR_IOPN_2_20200403T002803_20200403T002829_C001  CS_OFFL_SIR_IOPN_2_20200403T002403T002829_C001  CS_OFFL_SIR_IOPN_2_20200403T002403T0024829_C001  CS_OFFL_SIR_IOPN_2_20200403T0024834_20200403T0094550_C001  CS_OFFL_SIR_IOPN_2_20200403T0094354_20200403T0094550_C001  CS_OFFL_SIR_IOPN_2	CS_OFFL_SIR_IOPM_2_20200403T230614_20200403T230746_C001		
Backscatter Quality  CS_OFFL_SIR_IOPN_2_20200403T005412_20200403T005427_C001  Backscatter Quality  CS_OFFL_SIR_IOPN_2_20200403T005412_20200403T005427_C001  CS_OFFL_SIR_IOPN_2_20200403T0022803_20200403T0022829_C001  CS_OFFL_SIR_IOPN_2_20200403T022803_20200403T022829_C001  CS_OFFL_SIR_IOPN_2_20200403T022803_20200403T022829_C001  CS_OFFL_SIR_IOPN_2_20200403T094354_20200403T094550_C001  Backscatter Quality  COCG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20200403T094354_20200403T094550_C001	CS_OFFL_SIR_IOPM_2_20200403T231141_20200403T233712_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatt	CS_OFFL_SIR_IOPM_2_20200403T233723_20200403T234649_C001		
CS_OFFL_SIR_IOPN_2_20200403T022803_20200403T022829_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality 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 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 SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPN_2_20200403T005412_20200403T005427_C001		
CS_OFFL_SIR_IOPN_2_20200403T094354_20200403T094550_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPN_2_20200403T022803_20200403T022829_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPN_2_20200403T094354_20200403T094550_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPN_2_20200403T221009_20200403T221420_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_20200403T071046_20200403T071525_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_20200403T130440_20200403T130547_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_20200403T144345_20200403T144543_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_20200403T162307_20200403T162509_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_20200403T221635_20200403T222114_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

### 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200403T000012_20200403T000207_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_20200403T021647_20200403T021844_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_20200403T021902_20200403T022025_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_20200403T022803_20200403T022829_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_20200403T025018_20200403T025133_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_20200403T030923_20200403T031040_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_20200403T035616_20200403T035735_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_20200403T035749_20200403T035827_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_20200403T041015_20200403T041117_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_20200403T041621_20200403T041641_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_20200403T060423_20200403T060507_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_20200403T063417_20200403T063942_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_20200403T072513_20200403T072936_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_20200403T080852_20200403T081128_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_20200403T081829_20200403T082008_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_20200403T084714_20200403T085028_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_20200403T094122_20200403T094238_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_20200403T104331_20200403T104555_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_20200403T104607_20200403T104754_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_20200403T112612_20200403T112802_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_20200403T120444_20200403T120813_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_20200403T121709_20200403T121725_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_20200403T122322_20200403T122752_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_20200403T122833_20200403T122956_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_20200403T130547_20200403T130726_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_20200403T131433_20200403T131725_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_20200403T140531_20200403T141021_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_20200403T144543_20200403T144924_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_20200403T151202_20200403T151536_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_20200403T152404_20200403T152605_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_20200403T152643_20200403T152701_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_20200403T154434_20200403T154606_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_20200403T165524_20200403T165837_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_20200403T171600_20200403T171703_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_20200403T181245_20200403T181353_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_20200403T203036_20200403T203536_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_20200403T204838_20200403T205234_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_20200403T211945_20200403T212131_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_20200403T212817_20200403T213429_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_20200403T221009_20200403T221420_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_20200403T225855_20200403T230116_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_20200403T234649_20200403T234811_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_20200403T234854_20200403T235242_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_20200403T004259_20200403T005306_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_20200403T021844_20200403T021902_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_20200403T022025_20200403T022714_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_20200403T035827_20200403T035852_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_20200403T035907_20200403T040611_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_20200403T040749_20200403T040814_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_20200403T040820_20200403T040920_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_20200403T041730_20200403T042052_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_20200403T053755_20200403T053802_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_20200403T053814_20200403T054510_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_20200403T071046_20200403T071525_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_20200403T071941_20200403T072404_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_20200403T074837_20200403T074931_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_20200403T080300_20200403T080852_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_20200403T085737_20200403T090054_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_20200403T101558_20200403T102310_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_20200403T103715_20200403T104331_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_20200403T104911_20200403T105128_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_20200403T121445_20200403T121709_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_20200403T121856_20200403T122322_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_20200403T135254_20200403T140531_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_20200403T152941_20200403T153305_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_20200403T153648_20200403T154434_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_20200403T162307_20200403T162509_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_20200403T170844_20200403T171320_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_20200403T171703_20200403T172714_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_20200403T180053_20200403T180222_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_20200403T185622_20200403T190337_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_20200403T195135_20200403T195450_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_20200403T201103_20200403T201309_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_20200403T203536_20200403T204254_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_20200403T220651_20200403T221009_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_20200403T221635_20200403T222114_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_20200403T231100_20200403T231141_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_20200403T235242_20200404T000130_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.

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

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

> 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: 184

#### 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: 59

#### 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: 148

# 6. OP L2 Pole-to-Pole Data Quality Check

## 6.1 P2P Product Format Check

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

Number of products with errors: 0

### **6.2 P2P Product Header Analysis**

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

Number of products with errors: 0

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### **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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200402T235650_20200403T004628_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_220200403T004628_20200403T013604_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_220200403T013604_20200403T022541_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_220200403T022541_20200403T031517_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_220200403T031517_20200403T040455_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_220200403T040455_20200403T045431_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_220200403T045431_20200403T054408_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_220200403T054408_20200403T063344_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_220200403T063344_20200403T072322_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_220200403T072322_20200403T081258_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	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_220200403T081258_20200403T090236_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_220200403T090236_20200403T095212_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_220200403T095212_20200403T104149_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_220200403T104149_20200403T113125_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_220200403T113125_20200403T122103_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_220200403T122103_20200403T131039_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_220200403T131039_20200403T140016_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_220200403T140016_20200403T144953_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_220200403T144953_20200403T153930_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_220200403T153930_20200403T162906_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_220200403T162906_20200403T171844_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_220200403T171844_20200403T180820_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_220200403T180820_20200403T185757_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_220200403T185757_20200403T194733_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_220200403T194733_20200403T203711_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_220200403T203711_20200403T212647_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_220200403T212647_20200403T221624_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_220200403T221624_20200403T230600_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_220200403T230600_20200403T235538_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOP_220200403T235538_20200404T004514_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)

#### **6.5 P2P Measurement Confidence Data Check**

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200403T144953_20200403T153930_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### **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: 29

#### 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: 29

#### 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: 30

### 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: 28

#### 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.