

## 1. Overview

Report Production:	30-Jul-2024
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

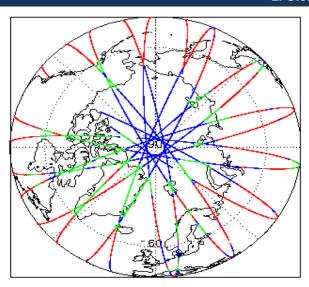
#### We would love to hear from you!

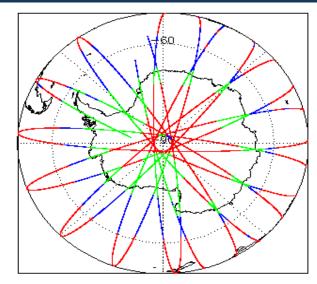
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

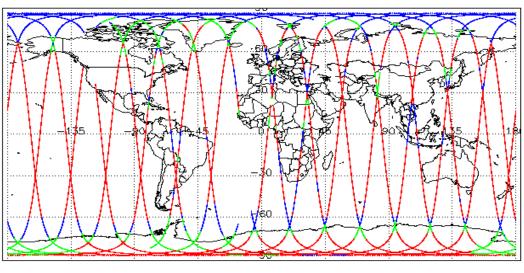
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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
QCC Error/ Warning Check	See Section 7.2	See Section 7.2

Mission / Instrument News	
23-Jul-2024	None
24-Jul-2024	None
25-Jul-2024	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 NetCDF product file (.nc).

#### 4.2 L1B Product Header Analysis

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

Number of products with errors:

#### 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: 112

Product	AUX File	Comment
All L1B IOP products from 20240724T120000 to 20240724T232407 (112)	CS_OPER_AUXIMOG_2D_20240724T120000_20	Forecast AUXI file missing at time of processing

#### 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. The attitude correction is actually not missing. This will be resolved in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20240724T141612_20240724T141816_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20240724T171312_20240724T172006_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. The table provides the full list of products flagged.

Number of products with errors: 19

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20240724T020958_20240724T022027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20240724T232408_20240724T235945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T005839_20240724T010217_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T031708_20240724T032322_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T090920_20240724T091013_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T122405_20240724T122451_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T122530_20240724T122814_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T122819_20240724T122945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T140750_20240724T140852_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T154216_20240724T154525_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T154544_20240724T154754_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T200109_20240724T200248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20240724T222920_20240724T223012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20240724T085913_20240724T090053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20240724T114726_20240724T115106_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20240724T154118_20240724T154216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20240724T163050_20240724T163200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20240724T205907_20240724T210056_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20240724T223920_20240724T224127_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors: 112

Product	AUX File	Comment
All L2 IOP products from 20240724T120000 to 20240724T232407 (112)	CS_OPER_AUXIMOG_2D_20240724T120000_20	Forecast AUXI file missing at time of processing

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

175

Deadwat	Toot Falled	Description
Product	Test Failed	Description
All L2 IOP products from 20240724T120000 to 20240724T232407 (112)	Dynamic Atmospheric Correction	There is an error with the Dynamic Atmospheric Correction for one or more records
CS_OFFL_SIR_IOPM_2_20240724T152618_20240724T153904_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPM_2_20240724T205109_20240724T205522_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T000140_20240724T000448_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_20240724T000731_20240724T001116_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_20240724T014210_20240724T014445_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_20240724T023031_20240724T023208_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T023721_20240724T023839_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T031708_20240724T032322_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_20240724T041655_20240724T041905_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_20240724T045933_20240724T050110_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T055611_20240724T060057_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_20240724T064751_20240724T065024_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_20240724T073450_20240724T073558_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) เพ่อลา ๖อล ๖นเกลce (1), เพ่อลา บynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20240724T081852_20240724T082242_C001	Topography (1), Total Geocentric Ocean	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_20240724T095835_20240724T100149_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_20240724T100703_20240724T100817_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T113554_20240724T114017_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_20240724T114608_20240724T114725_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) mean ๖ea ๖นпасе (1), меаn บynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20240724T122530_20240724T122814_C001	Topography (1), Total Geocentric Ocean	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_20240724T132336_20240724T132523_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T140750_20240724T140852_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_20240724T150148_20240724T150537_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_20240724T154216_20240724T154525_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T154544_20240724T154754_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_20240724T155332_20240724T155513_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T164053_20240724T164457_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_20240724T172226_20240724T172618_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_20240724T173128_20240724T173202_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records

CS_OFFL_SIR_IOPN_2_20240724T182207_20240724T182350_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T200109_20240724T200248_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T213116_20240724T213235_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T213805_20240724T214121_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_20240724T222920_20240724T223012_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T231042_20240724T231156_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20240724T231703_20240724T232018_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric 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_IOPR_2_20240724T005243_20240724T005721_C001	(FFS) Non-Fauilibrium Long Period 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_20240724T005721_20240724T005839_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_20240724T023208_20240724T023600_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_20240724T023600_20240724T023721_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_20240724T041049_20240724T041127_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20240724T041237_20240724T041655_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_20240724T054819_20240724T054832_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20240724T054832_20240724T055108_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20240724T055234_20240724T055611_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_20240724T073148_20240724T073450_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_20240724T073558_20240724T073646_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_20240724T085914_20240724T090053_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20240724T091014_20240724T091802_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_20240724T104957_20240724T105811_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_20240724T122946_20240724T123739_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_20240724T140853_20240724T141419_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_20240724T150538_20240724T150649_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20240724T154755_20240724T155332_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_20240724T172618_20240724T172639_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_20240724T172748_20240724T173128_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_20240724T190348_20240724T190951_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_20240724T190951_20240724T191114_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_20240724T204225_20240724T204916_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_20240724T205907_20240724T210056_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

US OFFE SIR IOPR 2 202407241222028 202407241222757 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_20240724T222757_20240724T222920_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20240724T141612_20240724T141816_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20240724T171312_20240724T172006_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

### 5.6 L2 Measurement Quality Flag Check

### L2 Quality Flags (20 Hz)

Product

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.

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Number of products with errors:

CS\_OFFL\_SIR\_IOPM\_2\_20240724T034912\_20240724T035155\_C001

	Test Failed	Description
		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	and Backscatter Quality, OCOG Altimeter	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_20240724T000449_20240724T000731_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_20240724T001452_20240724T004050_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_20240724T004117_20240724T004413_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_20240724T004502_20240724T005110_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_20240724T010340_20240724T011035_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_20240724T011053_20240724T013508_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_20240724T014445_20240724T014639_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_20240724T014852_20240724T015138_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_20240724T015405_20240724T015727_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_20240724T015817_20240724T020955_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_20240724T020958_20240724T022027_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_20240724T023839_20240724T024229_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_20240724T024357_20240724T025946_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_20240724T030605_20240724T031132_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_20240724T031316_20240724T031648_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_20240724T032620_20240724T033046_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_20240724T033341_20240724T034732_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

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_20240724T042329_20240724T042441_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_20240724T042603_20240724T043153_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_20240724T043437_20240724T045737_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_20240724T050110_20240724T050959_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_20240724T051313_20240724T053613_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_20240724T054728_20240724T054819_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_20240724T061330_20240724T063650_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_20240724T065238_20240724T071557_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_20240724T072424_20240724T072956_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_20240724T074450_20240724T081506_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_20240724T082243_20240724T082831_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_20240724T083123_20240724T083638_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_20240724T083832_20240724T084713_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_20240724T090740_20240724T090907_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_20240724T092115_20240724T095437_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_20240724T100149_20240724T100703_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_20240724T101349_20240724T101806_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_20240724T101817_20240724T101924_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_20240724T102344_20240724T102807_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_20240724T103958_20240724T104126_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_20240724T104421_20240724T104824_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_20240724T105812_20240724T113349_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_20240724T114017_20240724T114150_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_20240724T114157_20240724T114607_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_20240724T121116_20240724T121535_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_20240724T122005_20240724T122319_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_20240724T122319_20240724T122405_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_20240724T124040_20240724T124042_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_20240724T124051_20240724T124525_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_20240724T124704_20240724T125709_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_20240724T125718_20240724T131258_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_20240724T131524_20240724T132050_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_20240724T132109_20240724T132336_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_20240724T133154_20240724T134423_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_20240724T134507_20240724T140217_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_20240724T142546_20240724T143519_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_20240724T143722_20240724T145203_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_20240724T145452_20240724T145948_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_20240724T150009_20240724T150020_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_20240724T150848_20240724T151933_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_20240724T152137_20240724T152201_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_20240724T152618_20240724T153904_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_20240724T160509_20240724T160830_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_20240724T161645_20240724T163050_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_20240724T163418_20240724T163903_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_20240724T163926_20240724T163935_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_20240724T164652_20240724T171222_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_20240724T174621_20240724T180719_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_20240724T181441_20240724T181817_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_20240724T181841_20240724T182207_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_20240724T182531_20240724T185311_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_20240724T192115_20240724T192237_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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CS_OFFL_SIR_IOPM_2_20240724T192521_20240724T194942_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_20240724T195237_20240724T195732_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_20240724T200540_20240724T203917_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_20240724T205109_20240724T205522_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_20240724T210056_20240724T210211_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_20240724T210633_20240724T210933_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_20240724T212424_20240724T212546_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_20240724T212745_20240724T212840_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_20240724T213236_20240724T213805_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_20240724T214515_20240724T222028_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_20240724T223029_20240724T223234_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_20240724T224551_20240724T224757_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_20240724T225020_20240724T230649_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_20240724T232407_20240724T235945_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20240724T001131_20240724T001227_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20240724T055108_20240724T055233_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20240724T102808_20240724T102853_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20240724T114608_20240724T114725_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20240724T150020_20240724T150027_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20240724T222920_20240724T223012_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_20240724T001227_20240724T001452_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_20240724T035155_20240724T035622_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_20240724T114151_20240724T114157_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_20240724T114726_20240724T115106_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_20240724T155912_20240724T155945_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_20240724T163050_20240724T163200_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_20240724T190951_20240724T1911114_C001	and Backscatter Quality, OCOG Altimeter	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
	9	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz 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_20240724T000140_20240724T000448_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_20240724T000731_20240724T001116_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_20240724T001131_20240724T001227_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_20240724T005839_20240724T010217_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_20240724T014043_20240724T014207_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_20240724T014210_20240724T014445_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_20240724T014639_20240724T014852_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_20240724T022213_20240724T022433_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_20240724T023031_20240724T023208_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_20240724T031708_20240724T032322_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_20240724T033046_20240724T033227_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_20240724T041655_20240724T041905_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_20240724T042001_20240724T042229_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_20240724T042441_20240724T042603_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_20240724T050959_20240724T051158_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_20240724T053613_20240724T053620_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_20240724T054035_20240724T054205_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_20240724T055611_20240724T060057_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_20240724T060151_20240724T060313_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_20240724T081852_20240724T082242_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_20240724T090434_20240724T090557_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_20240724T091953_20240724T092115_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records

CS_OFFL_SIR_IOPN_2_20240724T102808_20240724T102853_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_20240724T104841_20240724T104957_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_20240724T113554_20240724T114017_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_20240724T114608_20240724T114725_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_20240724T121021_20240724T121115_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_20240724T122405_20240724T122451_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_20240724T122530_20240724T122814_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_20240724T122819_20240724T122945_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_20240724T131402_20240724T131524_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_20240724T140217_20240724T140352_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_20240724T141419_20240724T141510_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_20240724T141519_20240724T141602_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_20240724T150020_20240724T150027_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_20240724T150148_20240724T150537_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_20240724T150649_20240724T150809_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_20240724T153904_20240724T154009_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_20240724T154216_20240724T154525_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_20240724T154544_20240724T154754_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_20240724T163200_20240724T163418_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_20240724T172006_20240724T172130_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_20240724T172226_20240724T172618_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_20240724T173128_20240724T173202_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_20240724T181211_20240724T181441_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_20240724T182207_20240724T182350_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_20240724T200109_20240724T200248_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_20240724T203917_20240724T204030_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_20240724T204916_20240724T205054_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_20240724T210527_20240724T210632_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_20240724T210933_20240724T211112_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_20240724T213116_20240724T213235_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_20240724T213805_20240724T214121_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_20240724T222920_20240724T223012_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_20240724T223300_20240724T223412_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_20240724T223656_20240724T223703_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_20240724T223803_20240724T223920_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_20240724T224758_20240724T225020_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_20240724T231042_20240724T231156_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_20240723T235748_20240724T000140_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_20240724T005243_20240724T005721_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_20240724T013509_20240724T014042_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_20240724T025947_20240724T030225_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_20240724T054605_20240724T054728_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_20240724T063650_20240724T063910_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_20240724T081507_20240724T081851_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_20240724T082955_20240724T083123_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_20240724T083639_20240724T083832_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_20240724T091909_20240724T091936_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_20240724T095437_20240724T095835_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_20240724T101807_20240724T101817_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_20240724T101924_20240724T102344_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_20240724T113349_20240724T113554_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_20240724T114726_20240724T115106_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_20240724T132523_20240724T133154_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_20240724T143519_20240724T143722_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_20240724T150538_20240724T150649_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_20240724T152201_20240724T152350_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_20240724T152350_20240724T152551_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_20240724T154118_20240724T154216_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_20240724T160830_20240724T161645_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_20240724T163050_20240724T163200_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_20240724T164457_20240724T164652_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_20240724T171223_20240724T171312_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_20240724T173203_20240724T173336_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_20240724T180941_20240724T181210_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_20240724T182350_20240724T182531_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_20240724T200249_20240724T200540_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_20240724T211347_20240724T211415_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_20240724T214121_20240724T214515_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_20240724T223012_20240724T223029_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_20240724T223437_20240724T223656_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_20240724T230650_20240724T231042_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_20240724T232019_20240724T232407_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 & 1 Hz PLRM)

 $\label{lem:currently} \textbf{Currently, there are several common flags raised in the Level 2 products, which are summarised below.}$ 

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.

Number of products with errors: 22

## 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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:

#### L2 Retracking Flags (20 Hz 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. The number of products with this error flag set is given below.

Number of products with errors:

158

#### 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:

15

Product	AUX File	Comment
All P2P IOP products from 20240724T120000 to 20240725T000559 (15)	CS_OPER_AUXIMOG_2D_20240724T120000_20	Forecast AUXI file missing at time of processing

#### 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 check.

- > 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.

45

- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product Description There is an error with the Dynamic Atmospheric Correction for one or more All P2P IOP products from 20240724T120000 to 20240725T000559 (15) Dynamic Atmospheric Correction There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR IOP 2 20240723T231718 20240724T000654 C002 Topography height (solution 1) Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T000654\_20240724T005632\_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T005632\_20240724T014609\_C001 Topography height (solution 1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR IOP 2 20240724T014609 20240724T023547 C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean CS\_OFFL\_SIR\_IOP\_2\_\_20240724T023547\_20240724T032524\_C001 Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) Tide (GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T032524\_20240724T041502\_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR IOP 2 20240724T041502 20240724T050438 C001 Topography height (solution 1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T050438\_20240724T055417\_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T055417\_20240724T064353\_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T064353\_20240724T073331\_C001 Topography (1) Topography height (solution 1) iean Sea Surrace (1), iviean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide There is an error with the MSS height (solution 1), the Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T073331\_20240724T082308\_C001 Topography (solution 1), and tidal corrections for one or more records (FFS) Non-Fauilibrium Long Period Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR IOP 2 20240724T082308 20240724T091246 C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR IOP 2 20240724T091246 20240724T100223 C001 Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR IOP 2 20240724T100223 20240724T105201 C001 Topography height (solution 1) Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_IOP\_2\_\_20240724T105201\_20240724T114137\_C001 Topography (1) Topography height (solution 1) iean sea suriace (1), iviean dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS OFFL SIR IOP 2 20240724T114137 20240724T123116 C001 Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Topography (solution 1), and tidal corrections for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR IOP 2 20240724T123116 20240724T132052 C001 Topography height (solution 1) Topography (1)

CS_OFFL_SIR_IOP_220240724T132052_20240724T141030_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_220240724T141030_20240724T150007_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_220240724T150007_20240724T154945_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_220240724T154945_20240724T163921_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_220240724T163921_20240724T172900_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_220240724T172900_20240724T181836_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_220240724T181836_20240724T190814_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_220240724T190814_20240724T195751_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_220240724T195751_20240724T204729_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_220240724T204729_20240724T213706_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_220240724T213706_20240724T222644_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_220240724T222644_20240724T231620_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:

2

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20240724T141030_20240724T150007_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220240724T163921_20240724T172900_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

## 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20 Hz)

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. The number of P2P products affected is given below.

Number of products with errors: 29

#### P2P Quality Flags (20 Hz 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. The number of P2P products affected is given below.

Number of products with errors:

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

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below.

Number of products with errors: 30

## 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20 Hz)

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: 29

#### P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

#### 7. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	169	169	6	163	0
SIR_IOPR1B	132	107	1	106	0
SIR_IOPN1B	107	132	0	132	0
SIR_IOPM_2	169	169	113	56	0
SIR_IOPR_2	132	107	34	73	0

SIR_IOPN_2 SIR_IOP_P2P		107 29	132 29	0		29	0
7.1 QCC Errors							
Number of QCC reports 0	s with errors:	0					
7.2 QCC Warning	gs						
Number of QCC reports	s with warnings	2228	Total num	har of acquirences of ac	ah warning		
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF		NCD RBSZOPOEPNCDF
SIR_IOPM1B SIR_IOPM_2	163 0	39	0 45	28	0 37	0	33
SIR_IOPN1B SIR_IOPN_2	104	0	0 32	0 39	0 23	0 27	0
SIR_IOPR1B	128	0	0	0	0	0	0
SIR_IOPR_2	0	41	46	47	39	34	16
Product Type SIR_IOPM1B	RDTCONCDF 0	RNELPOTONCDF 0	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF 0
SIR_IOPM_2	0	2	38	0	0	0	0
SIR_IOPN1B SIR IOPN 2	0	0 5	0	0	0 24	0	0 33
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	13	0	46	0	57	0
Product Type SIR_IOPM1B	RPEPOPLRMNCDF 0	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF 0	RSSHAOFDNCDF	RSSHAOFDPLRMNCD	PF RSSHAONCDF
SIR_IOPM_2	31	0	0	7	14	0	3
SIR_IOPN1B SIR_IOPN_2	0	0	0 29	0	0 24	0 31	0 21
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	43	0	3	33	21	4
Product Type SIR_IOPM1B	RSWHOEPFDNCDF 0	RSWHOEPFDPLRMNCDI	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF 0	SOOHHIFHD 0	SCSTODHRNCDF 0
SIR_IOPM_2	36	0	4	1	0	0	0
SIR_IOPN1B SIR_IOPN_2	0 28	0 29	0	0	0	0	51 0
SIR_IOPR1B	0	0	0	0	0	0 2	132
SIR_IOPR_2	40	50		0	I	2	U
Product Type SIR_IOP_2_	IOHHMOOR 18	MVIOEPFDNCDF 29	MVIOEPNCDF 29	MVIONCDF 17	RBSZOPOEPFDNCDF 29	RBSZOPOEPFDPLRM	NCD RBSZOPOEPNCDF 28
SIR_IOP_2_ Product Type	18 RDTCONCDF	29 RNELPOTONCDF	29  RPEPOPFDPLRMSINNCD	17  RPEPOPFDSINNCDF	29  RPEPOPSINNCDF	16 RSSBCONCDF	28 RSSHAOFDNCDF
SIR_IOP_2_	18	29	29	17	29	16	28
SIR_IOP_2_  Product Type SIR_IOP_2_  Product Type	RDTCONCDF 1 RSSHAOFDPLRMNCDF	RNELPOTONCDF 11 RSSHAONCDF	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	17  RPEPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF	29  RPEPOPSINNCDF 24  RSWHOEPNCDF	RSSBCONCDF 16 SPHLPQWNCDF	28 RSSHAOFDNCDF
SIR_IOP_2_  Product Type SIR_IOP_2_  Product Type SIR_IOP_2_	RDTCONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCE	17  FRPEPOPFDSINNCDF 29	29  RPEPOPSINNCDF 24	RSSBCONCDF	28 RSSHAOFDNCDF
SIR_IOP_2_  Product Type SIR_IOP_2_  Product Type	RDTCONCDF 1 RSSHAOFDPLRMNCDF	RNELPOTONCDF 11 RSSHAONCDF	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	17  RPEPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF	29  RPEPOPSINNCDF 24  RSWHOEPNCDF	RSSBCONCDF 16 SPHLPQWNCDF	28 RSSHAOFDNCDF
SIR_IOP_2_  Product Type SIR_IOP_2_  Product Type SIR_IOP_2_  Product Type SIR_IOP_2_	RDTCONCDF 1 RSSHAOFDPLRMNCDF	RNELPOTONCDF 11 RSSHAONCDF	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	17  RPEPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF	29  RPEPOPSINNCDF 24  RSWHOEPNCDF	RSSBCONCDF 16 SPHLPQWNCDF	28  RSSHAOFDNCDF
Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  fest Description Key:	RDTCONCDF 1 RSSHAOFDPLRMNCDF	RNELPOTONCDF 11 RSSHAONCDF	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	17  RPEPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF	29  RPEPOPSINNCDF 24  RSWHOEPNCDF	RSSBCONCDF 16 SPHLPQWNCDF	28  RSSHAOFDNCDF
SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type Product Type	RDTCONCDF  1  RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	17 FRPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCDF 19	29  RPEPOPSINNCDF 24  RSWHOEPNCDF	RSSBCONCDF 16  SPHLPQWNCDF 29	28  RSSHAOFDNCDF
Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Fest Description Key: Abbreviation  SCSHNCDF	RDTCONCDF 1 RSSHAOFDPLRMNCDF 9	RNELPOTONCDF 11  RSSHAONCDF 15	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	17 RPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCDF 19 - Details The burst counter should be	29  RPEPOPSINNCDF 24  RSWHOEPNCDF 15	RSSBCONCDF 16 SPHLPQWNCDF 29	28  RSSHAOFDNCDF 16  -
Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Fost Description Key:	RDTCONCDF 1  RSSHAOFDPLRMNCDF 9   Test name  BurstCounterStep20HzNet	RNELPOTONCDF 11  RSSHAONCDF 15	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF 19 - Details The burst counter should be	29  RPEPOPSINNCDF 24  RSWHOEPNCDF 15  - one higher with regard to the	RSSBCONCDF 16 SPHLPQWNCDF 29	28  RSSHAOFDNCDF 16  veen -70 and 70 degrees
Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Fest Description Key: Abbreviation SCSHNCDF  MVIOEPFDNCDF	RDTCONCDF  1  RSSHAOFDPLRMNCDF 9  -  Test name  BurstCounterStep20HzNet  MissingValueIntOceanExcl	RNELPOTONCDF 11  RSSHAONCDF 15	RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	17  RPEPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF 19   Details  The burst counter should be The value should not be a 'n	29  RPEPOPSINNCDF 24  RSWHOEPNCDF 15  - one higher with regard to the nissing value' for surface type	RSSBCONCDF 16  SPHLPQWNCDF 29  previous burst counter e 0 only for latitudes betwee 0 only for latitudes between the counter of the counter o	28  RSSHAOFDNCDF 16  veen -70 and 70 degrees
Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Fest Description Key: Abbreviation  GCSHNCDF  AVIOEPFDNCDF  AVIOEPNCDF	RDTCONCDF 1  RSSHAOFDPLRMNCDF 9	RNELPOTONCDF 11  RSSHAONCDF 15	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RREPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF 19  -  Details  The burst counter should be a 'n The value should not be a 'n The value should not be a 'n The value should not be a 'n The backscatter sigma zero	RPEPOPSINNCDF 24  RSWHOEPNCDF 15  one higher with regard to the nissing value' for surface type should be between 700 and	RSSBCONCDF 16  SPHLPQWNCDF 29	28  RSSHAOFDNCDF 16  veen -70 and 70 degrees
Product Type SIR_IOP_2  Abbreviation  ACSHNCDF  AVIOEPFDNCDF  AVIOEPFDNCDF  AVIONCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF	RSSHAOFDPLRMNCDF 9  Test name BurstCounterStep20HzNet MissingValueIntOceanExcl MissingValueIntOceanExcl MissingValueIntOceanExcl	RNELPOTONCDF 11 RSSHAONCDF 15	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF 19	RSWHOEPNCDF 15 - one higher with regard to the nissing value' for surface type nissing value' for surface type nissing value' for surface type nissing value for surface type nissing valu	RSSBCONCDF  16  SPHLPQWNCDF  29  Perevious burst counter  to only for latitudes between 0 only for latitudes between 0 only  7500 (or missing) for sur	28  RSSHAOFDNCDF 16  veen -70 and 70 degrees veen -70 and 70 degrees
Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Product Type SIR_IOP_2  Fest Description Key: Abbreviation  BCSHNCDF  MVIOEPFDNCDF  MVIOEPRCDF  MVIONCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDPLRM NCDF	RSSHAOFDPLRMNCDF 9	RNELPOTONCDF  11  RSSHAONCDF  15	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	REWHOEPFDPLRMNCDF 19  RSWHOEPFDPLRMNCDF 19  - Details The burst counter should be The value should not be a 'n The value should not be a 'n The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero	29  RPEPOPSINNCDF 24  RSWHOEPNCDF 15  one higher with regard to the nissing value' for surface type nissing value' for surface type nissing value' for surface type should be between 700 and should be	RSSBCONCDF 16  SPHLPQWNCDF 29  Previous burst counter 0 only for latitudes betwee 0 only 7500 (or missing) for sur	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RSSHAOFDPLRMNCDF  RSSHAOFDPLRMNCDF  BURSTCOUNTERSTEP20HzNet MissingValueIntOceanExcl MissingValueIntOceanExcl MissingValueIntOceanNett RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe	RNELPOTONCDF  11  RSSHAONCDF  15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  copponent of the proop of the p	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF 19	RSWHOEPNCDF 15	RSSBCONCDF 16  SPHLPQWNCDF 29  - e previous burst counter e 0 only for latitudes betwee 0 only 7500 (or missing) for sur	28  RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Fest Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF RESZOPOEPFDNCDF RESZOPOEPFDPLRM NCDF RESZOPOEPFDPLRM NCDF RESZOPOEPFDPLRM NCDF RESZOPOEPROCDF RESZOPOEPROCDF RESZOPOEPROCDF REDTCONCDF	RSSHAOFDPLRMNCDF  RSSHAOFDPLRMNCDF  P  Test name  BurstCounterStep20HzNet  MissingValueIntOceanExcl  MissingValueIntOceanExcl  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe	RNELPOTONCDF  11  RSSHAONCDF  15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf eroOPOceanExcludingPolarf eroOPOceanExcludingPolarf eroOPOceanExcludingPolarf eroOPOceanExcludingPolarf eroCoPOceanExcludingPolarf	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RREPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF 19	RPEPOPSINNCDF 24  RSWHOEPNCDF 15  one higher with regard to the nissing value' for surface type nissing value' for surface type should be between 700 and should be should be should be between 700 and should be should be should	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Fest Description Key: Abbreviation  ACSHNCDF  AVIOEPFDNCDF  AVIOEPRODF  AVIOEPRODF  AVIOEPRODF  AVIOEPRODF  ARBSZOPOEPFDPLRM ACDF  ARBSZOPOEPFDPLRM ACDF  ARBSZOPOEPNCDF  RDTCONCDF  RDTCONCDF	RSSHAOFDPLRMNCDF  1  RSSHAOFDPLRMNCDF  9	RNELPOTONCDF  11  RSSHAONCDF  15	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RREPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF 19	RSWHOEPNCDF 15  one higher with regard to the nissing value' for surface type nissing value' for surface type nissing value' for surface type should be between 700 and should	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RSSHAOFDPLRMNCDF  RSSHAOFDPLRMNCDF  RSSHAOFDPLRMNCDF  Test name  BurstCounterStep20HzNet  MissingValueIntOceanExcl  MissingValueIntOceanExcl  MissingValueIntOceanExcl  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangePackscatterSigmaZe  Ran	RNELPOTONCDF  11  RSSHAONCDF  15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  rectionOceanNetCDF  eanNetCDF  polarOPFD2LRMNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RREPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF 19	RPEPOPSINNCDF 24  RSWHOEPNCDF 15  - one higher with regard to the nissing value' for surface type nissing value for s	RSSBCONCDF  16  SPHLPQWNCDF  29  - Previous burst counter  a previous burst counter  a O only for latitudes betwee  a O only for latitudes betwee  a O only for missing) for sur  7500 (or missing) for sur	28  RSSHAOFDNCDF 16
Product Type SIR_IOP_2  Fest Description Key: Abbreviation  CSHNCDF  MVIOEPRODF  MVIOEPRODF  MVIOEPRODF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RDTCONCDF  RDTCONCDF  RNELPOTONCDF  RPEPOPFDLRMNCDF	RSSHAOFDPLRMNCDF  1  RSSHAOFDPLRMNCDF  9   Test name  BurstCounterStep20HzNet  MissingValueIntOceanExcl  MissingValueIntOceanExcl  MissingValueIntOceanExcl  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangePeakinessExcluding  RangePeakinessExcluding	RNELPOTONCDF  11  RSSHAONCDF  15	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RREPOPFDSINNCDF 29  RSWHOEPFDPLRMNCDF 19	RSWHOEPNCDF  15  one higher with regard to the nissing value' for surface type nissing value' for surface type should be between 700 and 30 an	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RSSHAOFDPLRMNCDF 9  Test name BurstCounterStep20HzNet MissingValueIntOceanExcl MissingValueIntOceanNet RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeDryTroposphericCor RangeNELPOceanTideOce RangePeakinessExcluding RangePeakinessExcluding	RNELPOTONCDF  11  RSSHAONCDF  15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  rectionOceanNetCDF  eanNetCDF  polarOPFD2LRMNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF  29  RSWHOEPFDPLRMNCDF  19	RSWHOEPNCDF  15  one higher with regard to the nissing value' for surface type nissing value for surface type niss	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RSSHAOFDPLRMNCDF 9  Test name BurstCounterStep20HzNet MissingValueIntOceanExcl MissingValueIntOceanNet RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeDryTroposphericCor RangeNELPOceanTideOce RangePeakinessExcluding RangePeakinessExcluding	RNELPOTONCDF  11  RSSHAONCDF  15	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF  29  RSWHOEPFDPLRMNCDF  19	RSWHOEPNCDF  15  one higher with regard to the nissing value' for surface type nissing value for surface type niss	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RDTCONCDF  1  RSSHAOFDPLRMNCDF 9	RNELPOTONCDF  11  RSSHAONCDF  15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  croOPOceanExcludingPolarf  rectionOceanNetCDF  eanNetCDF  polarOPFD2PLRMSARNetC  polarOPFD2PLRMSINNetCi  polarOPFD2SARNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RREPOPFDSINNCDF  29  RSWHOEPFDPLRMNCDF  19	RPEPOPSINNCDF 24  RSWHOEPNCDF 15	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RSSHAOFDPLRMNCDF  RSSHAOFDPLRMNCDF  P  Test name  BurstCounterStep20HzNet  MissingValueIntOceanExcl  MissingValueIntOceanExcl  MissingValueIntOceanExcl  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeBackscatterSigmaZe  RangeDryTroposphericCor  RangeNELPOceanTideOce  RangePeakinessExcluding  RangePeakinessExcluding  RangePeakinessExcluding  RangePeakinessExcluding	RNELPOTONCDF  11  RSSHAONCDF  15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  rectionOceanNetCDF  eanNetCDF  polarOPFD2PLRMSARNetCDF  polarOPFD2PLRMSINNetCl  polarOPFD2SARNetCDF  polarOPFD2SARNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RREPOPFDSINNCDF  29  RSWHOEPFDPLRMNCDF  19	RSWHOEPNCDF  15  one higher with regard to the nissing value' for surface type nissing value for surface type should be between 700 and 3 should be between 700 and 3 should be between 700 and 3 ston should be between 700 and 3 ston should be between 700 and 3 ston should be between 10 and 15000 (or missing tween 0 and	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  est Description Key: bbreviation  CSHNCDF  IVIOEPFDNCDF  IVIOEPFDPPDLRM  IVIOEPFDPPDLRM  IVIOEPFDPPDLRM  IVIOEPFDPPDLRM  IVIOEPFDPPDLRM  IVIOEPFDPPDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDLRM  IVIOEPPOPFDSARNCDF  IVIOEPPOPFDSARNCDF  IVIOEPPOPFDSINNCDF  IVIOEPPOPFDSINNCDF  IVIOEPPOPFDSINNCDF  IVIOEPPOPFDSINNCDF  IVIOEPPOPFDSINNCDF  IVIOEPPOPFDSINNCDF  IVIOEPPOPFDSINNCDF	RSSHAOFDPLRMNCDF  1  RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF 19	RPEPOPSINNCDF 24  RSWHOEPNCDF 15	RSSBCONCDF  16  SPHLPQWNCDF  29  - Previous burst counter to a construction of the con	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  PRODUC	RSSHAOFDPLRMNCDF  1  RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  erroOPOceanExcludingPolarf  erroOPOceanExcludingPolarf  rectionOceanNetCDF  polarOPFD2PLRMSARNetCDF  polarOPFD2PLRMSINNetCIP  polarOPFD2SARNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF  19    Company	RSWHOEPNCDF  15  one higher with regard to the nissing value' for surface type nissing value' for surface type nissing value' for surface type should be between 700 and 15000 (or missing tween 0 and 15000 (or missing tween 0 and 15000 (or missing tween 0 and 6400 (or missing tween 0 and 15000 (or missing	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
PROPERTING  PRODUCT Type  SIR_IOP_2  PRODUCT Type  PRO	RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  erroOPOceanExcludingPolarf  rectionOceanNetCDF  polarOPFD2LRMNetCDF  polarOPFD2PLRMSINNetCl  polarOPFD2SARNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFDARNetCDF  polarOPFD2SINNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPSARNetCDF  polarOPSARNetCDF  polarOPSARNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF  19	RSWHOEPNCDF  15  one higher with regard to the nissing value' for surface type nissing value of the properties of the surface not not surface not not surface not not not surface not	RSSBCONCDF  16  SPHLPQWNCDF  29  - Previous burst counter to a complete previous burs	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  PRODUCT  PRODUC	RSSHAOFDPLRMNCDF  1  RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  croOPOceanExcludingPolarf  rectionOceanNetCDF  polarOPFD2PLRMSARNetC  polarOPFD2PLRMSINNetCI  polarOPFD2SARNetCDF  polarOPFD2SINNetCDF  polarOPFD2SINNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPFDARNetCDF  polarOPSARNetCDF  polarOPSARNetCDF  polarOPSARNetCDF  polarOPSARNetCDF  polarOPSINNetCDF  polarOPSINNetCDF  polarOPSINNetCDF  polarOPSINNetCDF  polarOPSINNetCDF  polarOPSINNetCDF  polarOPSINNetCDF  polarOPSINNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF 19	RSWHOEPNCDF 15  one higher with regard to the nissing value' for surface type nissing value' for surface type nissing value' for surface type should be between 700 and 15000 (or missing tween 0 and 15	RSSBCONCDF  16  SPHLPQWNCDF  29  29  20  20  20  20  20  20  20  20	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  PRODUCT  PRODUCT  PRESSOPOEPHOLDF  PRESSORODF  PRESSOROTOF  P	RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  polarOPFD2LRMSARNetCDF  polarOPFD2PLRMSINNetCDF  polarOPFD2SARNetCDF  polarOPFD2SARNetCDF  polarOPFD2SARNetCDF  polarOPSARNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF  19	RSWHOEPNCDF  15	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  PRODUCT	RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanNetCDF  polarOPFD2PLRMSINNetCDF  polarOPFD2SINNetCDF  polarOPSARNetCDF  polarOPSARNetCDF  polarOPSINNetCDF  eroonCeanNetCDF  momalyOceanFD3PLRMNetC  pommalyOceanFD3PLRMNetCDF  momalyOceanFD3PLRMNetCDF  momalyOceanFD3PLRMNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF  19	RSWHOEPNCDF  15	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanNetCDF  polarOPFD2PLRMSINNetCDF  polarOPFD2SINNetCDF  polarOPSARNetCDF  polarOPSARNetCDF  polarOPSINNetCDF  eroonCeanNetCDF  momalyOceanFD3PLRMNetC  pommalyOceanFD3PLRMNetCDF  momalyOceanFD3PLRMNetCDF  momalyOceanFD3PLRMNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF  19	RPEPOPSINNCDF 24  RSWHOEPNCDF 15	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  Produc	RSSHAOFDPLRMNCDF 9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  eroOPOceanExcludingPolarf  eroOPOceanNetCDF  polarOPFD2PLRMSINNetCDF  polarOPFD2SINNetCDF  polarOPSARNetCDF  polarOPSARNetCDF  polarOPSINNetCDF  eroonCeanNetCDF  momalyOceanFD3PLRMNetC  pommalyOceanFD3PLRMNetCDF  momalyOceanFD3PLRMNetCDF  momalyOceanFD3PLRMNetCDF	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF 19	RSWHOEPNCDF 15	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16
Product Type SIR_IOP_2  PRODUCT  PRODUCT  PRODUCT  PREPOPED PRODUCT  PREPOPFD PRODUCT  PREPOPFD SIRNCDF  PREPOPF SIRNCDF  PREPOPSARNCDF  PREPOPSARNCDF  PREPOPSINNCDF  PREPOPSINNCDF  PREPOPSINNCDF  PREPOPSINNCDF  PREPOPSINNCDF  PREPOPSINNCDF  PREPOPSINNCDF  PRESSBCONCDF  PRESS	RSSHAOFDPLRMNCDF  9	RNELPOTONCDF 11  RSSHAONCDF 15  CDF  udingPolarFD2NetCDF  udingPolarNetCDF  croOPOceanExcludingPolarf  crooPOceanNetCDF  crooPOceanNetCDF  crooPOceanPoceanP	RPEPOPFDPLRMSINNCE 16  RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF 19	RPEPOPSINNCDF 24  RSWHOEPNCDF 15	RSSBCONCDF  16  SPHLPQWNCDF  29	RSSHAOFDNCDF  16

SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0