

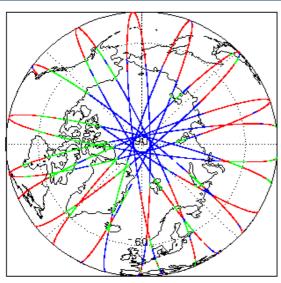
# 1. Overview

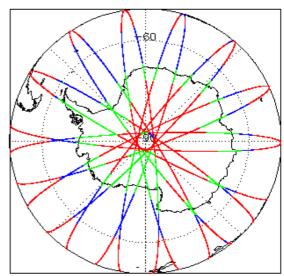
Report Production:	24-Oct-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

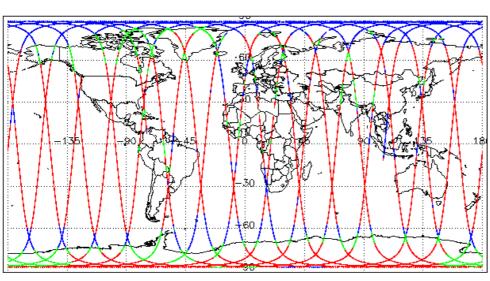
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1, 7.2	See Section 7.1, 7.2

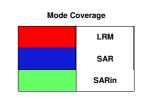
Miss	sion / Instru	ment News
19	-Oct-2022	None
20	-Oct-2022	None
21	-Oct-2022	Nothing planned

# 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:

0

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

# 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

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 undate.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221020T120827_20221020T121131_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20221020T134537_20221020T135357_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221020T082452_20221020T083121_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221020T095401_20221020T100309_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221020T121148_20221020T121536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221020T121659_20221020T122234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221020T185504_20221020T191617_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221020T230813_20221020T232427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T053357_20221020T053556_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T101943_20221020T102103_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T102510_20221020T102627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T110011_20221020T110551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T182541_20221020T182649_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T200801_20221020T201209_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T232555_20221020T232705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T232709_20221020T232721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221020T232808_20221020T233020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221020T015856_20221020T020749_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221020T073932_20221020T074355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221020T083945_20221020T084107_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221020T115506_20221020T115548_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221020T210757_20221020T211415_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221020T224635_20221020T225029_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221020T233020_20221020T233707_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:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221020T020749_20221020T020852_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_IOPM_2_20221020T132950_20221020T133045_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_IOPM_2_20221020T163626_20221020T163855_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_IOPM_2_20221020T221942_20221020T223421_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_20221020T001521_20221020T002033_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_20221020T010506_20221020T010756_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_20221020T011418_20221020T011721_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_20221020T015512_20221020T015743_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20221020T015743_20221020T015856_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_20221020T033031_20221020T033549_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20221020T060410_20221020T060535_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_20221020T061054_20221020T061400_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_20221020T074355_20221020T074652_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_20221020T074955_20221020T075332_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_20221020T084531_20221020T084615_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_20221020T092434_20221020T092708_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_20221020T093347_20221020T093526_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_20221020T101943_20221020T102103_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_20221020T110011_20221020T110551_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_20221020T115419_20221020T115506_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_20221020T124159_20221020T124336_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_20221020T125224_20221020T125431_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_20221020T143016_20221020T143240_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_20221020T160112_20221020T160505_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20221020T165142_20221020T165238_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_20221020T174059_20221020T174412_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_20221020T191831_20221020T192249_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_20221020T192830_20221020T192952_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)

	1	I
CS_OFFL_SIR_IOPN_2_20221020T200801_20221020T201209_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_20221020T210610_20221020T210756_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_20221020T215012_20221020T215104_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_20221020T224413_20221020T224635_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_20221020T232555_20221020T232705_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20221020T232808_20221020T233020_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_IOPR_2_20221020T002033_20221020T002744_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_IOPR_2_20221020T015856_20221020T020749_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_20221020T033550_20221020T034327_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_20221020T051521_20221020T052147_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_20221020T052148_20221020T052346_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_20221020T065340_20221020T070047_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_20221020T070048_20221020T070228_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_20221020T083501_20221020T083944_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_20221020T083945_20221020T084107_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_20221020T101300_20221020T101826_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_20221020T101827_20221020T101943_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_20221020T115506_20221020T115548_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_20221020T115548_20221020T115916_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_20221020T133045_20221020T133114_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_20221020T133114_20221020T133830_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_20221020T151326_20221020T151900_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_20221020T164147_20221020T164324_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_20221020T164646_20221020T164655_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_20221020T165239_20221020T170029_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_20221020T183101_20221020T183958_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_20221020T201209_20221020T201921_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_20221020T215105_20221020T215645_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_20221020T233020_20221020T233707_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_20221020T235054_20221020T235920_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

# 5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221020T120827_20221020T121131_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_20221020T134537_20221020T135357_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)

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.

99

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221020T000034_20221020T000311_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_20221020T000435_20221020T001146_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_20221020T001309_20221020T001521_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_20221020T004220_20221020T004535_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_20221020T004728_20221020T010329_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_20221020T010757_20221020T011210_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_20221020T011231_20221020T011418_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_20221020T011941_20221020T015308_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_20221020T021015_20221020T021450_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_20221020T021902_20221020T024235_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_20221020T024601_20221020T025125_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_20221020T025845_20221020T033031_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_20221020T034449_20221020T034509_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_20221020T034637_20221020T034652_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_20221020T034755_20221020T035309_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_20221020T035358_20221020T035545_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_20221020T035547_20221020T041633_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_20221020T041747_20221020T042156_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_20221020T042557_20221020T043404_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_20221020T043937_20221020T051131_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_20221020T052346_20221020T052545_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_20221020T055458_20221020T055958_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_20221020T060536_20221020T061053_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

Dept. 19. J. J. P. M. J. 2021 1001 1012 J. 2021	CS_OFFL_SIR_IOPM_2_20221020T061812_20221020T063905_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
SQUITE_SRI_COME_20221007107071_00221007107072_0001	CS_OFFL_SIR_IOPM_2_20221020T064151_20221020T065332_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sec. OFF. SRI JOPPL 2_20210001702917_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100170291_000100170291_000100170291_000100170291_00010170291_000100	CS_OFFL_SIR_IOPM_2_20221020T070247_20221020T070727_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Set Delta	CS_OFFL_SIR_IOPM_2_20221020T072317_20221020T072759_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description (Configuration (Configur	CS_OFFL_SIR_IOPM_2_20221020T072947_20221020T073931_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Se_OFFL_SRI_OPM_2_202210071094401_2022100700310_C001  Sear Altereder Range, SSRIA_SWIA and Backscoater Quality Range And Record Range (SSRIA_SWIA and Backscoater Quality Range and Backscater Quality Range and Backscater Quality Range and Backscater Quality Range and Backscater Quality Range (SSRIA_SWIA and Backscater Quality Range and Backscater Quality Range (SSRIA_SWIA and Backscater Quality Range and Backscater Quality Range) Range (SSRIA_SWIA and Backscater Quality Range) Range on Backscater Quality Range (SSRIA_SWIA and Backscater Quality Range) Range (SSRIA_SWIA and Backscater Quality Range) Range on Backscater Quality Range (SSRIA_SWIA and Backscater Quality Range) Range (SSRIA_SWIA_SWIA and Backscater Quality Range) Range (SSRIA_SWIA_SWIA_SWIA_SWIA_SWIA_SWIA_SWIA_SW	CS_OFFL_SIR_IOPM_2_20221020T075710_20221020T082312_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Seg. OFFL_SIR_IOPM_2_20221020T084015_20221020T108020_2011 CSO OFFL_SIR_IOPM_2_20221020T085224_20221020T180602_2011 CSO OFFL_SIR_IOPM_2_20221020T085224_20221020T180602_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20221020T180602_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20221020T180602_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20221020T180602_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20221020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20221020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20221020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20221020T085234_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20221020T08523_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08523_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T1806034_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T180604_2011 CSO_OFFL_SIR_IOPM_2_20121020T08503_20121020T180604_2011 CSO_OFFL_SIR_IOPM_2_20121020T180604_20121020T180604_2011 CSO_OFFL_SIR_IOPM_2_20121020T180604_20121020T	CS_OFFL_SIR_IOPM_2_20221020T082452_20221020T083121_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Causity, COCO Affinited Range and Backscatter Causity Flags have been set of the COCO Affinited Range and Backscatter Causity Flags have been set of core or more records  CS_OFFL_SRI_LOPM_2_20231003100310031053106_00210011003105_0022100311003105_0022100311100310_00201  CS_OFFL_SRI_LOPM_2_2002210031100310_00201  CS_OFFL_SRI_LOPM_2_2002210031100310_00201  CS_OFFL_SRI_LOPM_2_2002210031100310_00201  CS_OFFL_SRI_LOPM_2_2002210031100310_00201  CS_OFFL_SRI_LOPM_2_2002210031110034_20021  CS_OFFL_SRI_LOPM_2_2002210031110034_20021  CS_OFFL_SRI_LOPM_2_2002210031110034_20021  CS_OFFL_SRI_LOPM_2_200221003111034_200210031110345_00201  CS_OFFL_SRI_LOPM_2_200221003111034_200210031110345_00201  CS_OFFL_SRI_LOPM_2_200221003111034_200210031110345_00201  CS_OFFL_SRI_LOPM_2_200221003111034_200210031110345_00201  CS_OFFL_SRI_LOPM_2_200221003111034_200210031110345_00201  CS_OFFL_SRI_LOPM_2_200221003111034_200210031110345_00201  CS_OFFL_SRI_LOPM_2_2002210031110345_0022100311110345_00201  CS_OFFL_SRI_LOPM_2_20022100311103	CS_OFFL_SIR_IOPM_2_20221020T084615_20221020T085310_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Causily  CS OFFL SIR IOPM 2 20221020109395 20221020109394 C001  Althreder Range Causily, OCOC Althreder Range Causily, OCOC Althreder Range Causily, OCOC Althreder Range SISHA, SWH and Backscatter Causily Flage have been set for one or more records.  CS OFFL SIR IOPM 2 20221020109393 202210201094098 C001  CS OFFL SIR IOPM 2 20221020109393 202210201095210 C001  CS OFFL SIR IOPM 2 202210201094151 202210201095210 C001  CS OFFL SIR IOPM 2 20221020110952 20221020110050 C001  CS OFFL SIR IOPM 2 20221020110952 20221020110501 C001  CS OFFL SIR IOPM 2 202210201110050 C	CS_OFFL_SIR_IOPM_2_20221020T085324_20221020T091733_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T095930_20221020T094596_C001  CS_OFFL_SIR_IOPM_2_20221020T095930_20221020T09595_C001  CS_OFFL_SIR_IOPM_2_20221020T095930_20221020T09521_C001  Altimoter Range, SSHA, SWH and Backscatter Quality Flags have been set from the COOR Altimoter Range, SSHA, SWH and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range, SSHA, SWH and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range, SSHA, SWH and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range, SSHA, SWH and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backscatter Quality Flags have been set from the COOR Altimoter Range and Backs	CS_OFFL_SIR_IOPM_2_20221020T092708_20221020T092902_C001		
and Backscatter Quality Flags have been after the ready and Backscatter Quality Flags have been after the ready and Backscatter Quality Flags have been after flags and beautiful flags have been after flags and Backscatter Quality Flags have been after one or more records  CS_OFFL_SIR_JOPM_2_20221020T110542_2021020T11254_2021  CG	CS_OFFL_SIR_IOPM_2_20221020T093135_20221020T093346_C001		
CS_OFFL_SIR_JOPM_2_20221020T09523_20221020T1095325_C001  And Backscatter Quality_COCS_Althreeter Range and Backscatter Quality Flags have been adhered frange and Backscatter Quality Flags and the COCS_Althreeter Range and Backscatter Quality Flags and Backscatter Quality Flags have been adhered frange and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_JOPM_2_20221020T102104_20221020T102510_C001  CS_OFFL_SIR_JOPM_2_20221020T102027_20221020T104050_C001  CS_OFFL_SIR_JOPM_2_20221020T102027_20221020T105942_C001  CS_OFFL_SIR_JOPM_2_20221020T104058_20221020T105942_C001  CS_OFFL_SIR_JOPM_2_20221020T104058_20221020T105942_C001  CS_OFFL_SIR_JOPM_2_20221020T11051_20221020T110519_C001  CS_OFFL_SIR_JOPM_2_20221020T11051_20221020T110519_C001  CS_OFFL_SIR_JOPM_2_20221020T11051_20221020T110519_C001  CS_OFFL_SIR_JOPM_2_20221020T11051_20221020T110519_C001  CS_OFFL_SIR_JOPM_2_20221020T11051_20221020T112054_C001  CS_OFFL_SIR_JOPM_2_20221020T11051_20221020T112054_C001  CS_OFFL_SIR_JOPM_2_20221020T111051_20221020T112054_C001  CS_OFFL_SIR_JOPM_2_20221020T111051_20	CS_OFFL_SIR_IOPM_2_20221020T093630_20221020T094058_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T102104_20221020T102510_0001  CS_OFFL_SIR_IOPM_2_20221020T102627_20221020T104500_C001  CS_OFFL_SIR_IOPM_2_20221020T102627_20221020T106942_0001  CS_OFFL_SIR_IOPM_2_20221020T104628_20221020T106942_0001  CS_OFFL_SIR_IOPM_2_20221020T104628_20221020T106942_0001  CS_OFFL_SIR_IOPM_2_20221020T110642_20221020T1106942_0001  CS_OFFL_SIR_IOPM_2_20221020T110644_20221020T1106942_0001  CS_OFFL_SIR_IOPM_2_20221020T110644_20221020T1106942_0001  CS_OFFL_SIR_IOPM_2_20221020T110644_20221020T1110694_0001  CS_OFFL_SIR_IOPM_2_20221020T110644_20221020T1110694_0001  CS_OFFL_SIR_IOPM_2_20221020T1110644_20221020T111264_0001  CS_OFFL_SIR_IOPM_2_20221020T1110644_20221020T111264_0001  CS_OFFL_SIR_IOPM_2_20221020T1110644_20221020T111264_0001  CS_OFFL_SIR_IOPM_2_20221020T1110644_20221020T111264_0001  CS_OFFL_SIR_IOPM_2_20221020T1110644_20221020T111264_0001  CS_OFFL_SIR_IOPM_2_20221020T111314_20221020T1112654_0001  CS_OFFL_SIR_IOPM_2_20221020T111314_20221020T1112654_0001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_20221020T112656_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_20221020T12234_0001  CS_OFFL_SIR_IOPM_2_20221020T121468_202210	CS_OFFL_SIR_IOPM_2_20221020T094151_20221020T095210_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T102104_20221020T102510_C001  CS_OFFL_SIR_IOPM_2_20221020T102104_20221020T102510_C001  CS_OFFL_SIR_IOPM_2_20221020T102057_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T102057_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T102057_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T102057_20221020T105942_C001  CS_OFFL_SIR_IOPM_2_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T1104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T11104050_C001  CS_OFFL_SIR_IOPM_2_20221020T1121140_C001  CS_OFFL_SIR_IOPM_2_20221020T1121140_C001  CS_OFFL_SIR_IOPM_2_20221020T1121050_C001  CS_OFFL_SIR_IOPM_2_20221020T112	CS_OFFL_SIR_IOPM_2_20221020T095223_20221020T095325_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T102627_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T102627_20221020T104050_C001  CS_OFFL_SIR_IOPM_2_20221020T104828_20221020T105942_C001  CS_OFFL_SIR_IOPM_2_20221020T104828_20221020T105942_C001  CS_OFFL_SIR_IOPM_2_20221020T104828_20221020T105942_C001  CS_OFFL_SIR_IOPM_2_20221020T110551_20221020T105942_C001  CS_OFFL_SIR_IOPM_2_20221020T110551_20221020T110819_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T110819_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T110819_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T1110819_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T110819_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T110819_C001  CS_OFFL_SIR_IOPM_2_20221020T1110846_20221020T110819_C001  CS_OFFL_SIR_IOPM_2_20221020T1110819_C001  CS_OFFL_SIR_IOPM_2_20221020T1110846_20221020T112084_C001  CS_OFFL_SIR_IOPM_2_20221020T112108_C001  CS_OFFL_SIR_IOPM_2_20221020T112108_C001  CS_OFFL_SIR_IOPM_2_20221020T112108_2021020T121084_C001  CS_OFFL_SIR_IOPM_2_20221020T1210814_C001  CS_OFFL_SIR_IOPM_2_20221020T1210814_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_202	CS_OFFL_SIR_IOPM_2_20221020T095401_20221020T100309_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T111310_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T111310_C001  CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T1112954_C001  CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T112954_C001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T114651_C001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T114651_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T112536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T121348_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T121348_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T121348_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T122344	CS_OFFL_SIR_IOPM_2_20221020T102104_20221020T102510_C001		
and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T110851_20221020T110819_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T111310_C001  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T111310_C001  CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T111310_C001  CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T112954_C001  CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T112954_C001  CS_OFFL_SIR_IOPM_2_20221020T111614_20221020T112954_C001  CS_OFFL_SIR_IOPM_2_20221020T111614_20221020T11256_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T12536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T121559_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T121559_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T12342_20221020T123941_C001  C	CS_OFFL_SIR_IOPM_2_20221020T102627_20221020T104050_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T111310_C001  Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocoan Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20221020T104828_20221020T105942_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T112954_C001  CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T112954_C001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T112954_C001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T114651_C001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T114651_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T1213941_C001  CS_OFFL_SIR_IOPM_2_20221020T121342_20221020T122344_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T1	CS_OFFL_SIR_IOPM_2_20221020T110551_20221020T110819_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T114651_C001  CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T114651_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T1212342_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T121348_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T122341_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C	CS_OFFL_SIR_IOPM_2_20221020T110846_20221020T111310_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001  CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T121659_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T12234_C001  Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123342_C001	CS_OFFL_SIR_IOPM_2_20221020T111611_20221020T112954_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T121659_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T12234_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20221020T113134_20221020T114651_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221020T121659_20221020T122234_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_2_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_3_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_3_20221020T123342_20221020T123941_C001  CS_OFFL_SIR_IOPM_3_20221020T123342_20221020T123941_C001	CS_OFFL_SIR_IOPM_2_20221020T121148_20221020T121536_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20221020T121659_20221020T122234_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20221020T122342_20221020T123941_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20221020T124336_20221020T125224_C001		

Deport Service (1949, 1949)  Deport Service (	CS_OFFL_SIR_IOPM_2_20221020T125555_20221020T131658_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
Section	CS_OFFL_SIR_IOPM_2_20221020T132950_20221020T133045_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Residential Coulty  Reside	CS_OFFL_SIR_IOPM_2_20221020T135359_20221020T141911_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
set (1) Control Allerance Region and Seasonate Caulty Plags Note: New Notes Allerance Region and Resonate Caulty Plags Note: New Notes Allerance Region and Resonate Caulty Plags Note: New Notes Allerance Region (1) Control Region and Resonate Caulty Plags Note: New Notes Allerance Region (1) Control Region and Resonate Caulty Plags Note: New Notes Allerance Region (1) Control Region and Resonate Caulty Plags Note: New Notes Allerance Region (1) Control Region and Resonate Caulty Plags Note: New Notes Region (1) Control Region and Resonate Caulty Plags Note: New Notes Region (1) Control Region (1	CS_OFFL_SIR_IOPM_2_20221020T142549_20221020T143016_C001		
SC DRFL SRL CPM 2_20221007119114_20001  OR Allereder Region and Redescated Country Region Redescated Country Region and Redescated Country Region Redescated Country Region Redescated Country Region Redescated Country Region Red Redescated Country	CS_OFFL_SIR_IOPM_2_20221020T143517_20221020T150109_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Comparison   Com	CS_OFFL_SIR_IOPM_2_20221020T151104_20221020T151240_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS_OFFL_SRI_OPM_2_20221007118318_20221007118286_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118286_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118286_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118286_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118286_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007118008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007178008_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007178010_20221007118008_001  SS_OFFL_SRI_OPM_2_20221007178010_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007178010_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007178010_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007178010_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007178010_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007118010_001  SS_OFFL_SRI_OPM_2_20221007118010_001  SS_OFFL_SRI_OPM_2_2022100718010_001  SS_OFFL_SRI_OPM_2_20221007118010_001  SS_OFFL_SRI_OPM_2_202210071180100_001  SS_OFFL_SRI_OPM_2_20221007118010_001	CS_OFFL_SIR_IOPM_2_20221020T152736_20221020T153012_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sachscatter Caulty Coan Afternoor Range, SSHA, SWH and Backscatter Qualty Flags and Backscatter Qualty Coan Afternoor Range and Backscatter Qualty Coan Af	CS_OFFL_SIR_IOPM_2_20221020T153138_20221020T155655_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGO Altimeter Range and Backscatter Quality (Figs have been external transparent Disaster Range). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster Range). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster Range). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs have been external transparent Disaster). SSIA, SWH and Backscatter Quality (Figs h	CS_OFFL_SIR_IOPM_2_20221020T160505_20221020T161055_C001		
and Backscatter Quality COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records  S. OFFL SIR LOPM 2. 20221020T165032_20221020T165142_CO01  S. OFFL SIR LOPM 2. 20221020T179303 20221020T179395 CO01  S. OFFL SIR LOPM 3. 20221020T179393 20221020T179395 CO01  S. OFFL SIR LOPM 3. 20221020T179393 20221020T179397 CO01  S. OFFL SIR LOPM 3. 20221020T179412_20221020T179497 CO01  S. OFFL SIR LOPM 3. 20221020T179412_20221020T179979 CO01  S. OFFL SIR LOPM 3. 20221020T186109_20221020T185100_CO01  Allimeter Range and Backscatter Quality Flags have been set for ne or more records  S. OFFL SIR LOPM 3. 20221020T186109_20221020T185100_CO01  Allimeter Range and Backscatter Quality Flags have been set for ne or more records  S. OFFL SIR LOPM 3. 20221020T186109_20221020T185100_CO01  Allimeter Range and Backscatter Quality Flags have been set for ne or more records  S. OFFL SIR LOPM 3. 20221020T186109_20221020T185100_CO01  Allimeter Range and Backscatter Quality Flags have been set for ne or more records  S. OFFL SIR LOPM 3. 20221020T186109_20221020T185100_CO01  Allimeter Range and Backscatter Quality Flags have been set for ne or more records  S. OFFL SIR LOPM 3. 20221020T186109_20221020T185100_CO01  Allimeter Range and Backscatter Quality Flags have been set for one or more records  S. OFFL SIR LOPM 3. 20221020T186109_20221020T196170_CO01  Allimeter Range and Backscatter Quality Flags have been set for one or more records  S. OFFL SIR LOPM 3. 20221020T186109_20221020T1961917_CO01  S. OFFL SIR LOPM 3. 20221020T1861950_20221020T1961917_CO01  S. OFFL SIR LOPM 3. 20221020T1861950_20221020T1961917_CO01  S. OFFL SIR LOPM 3. 20221020T186180_20221020T1961917_CO01  S. OFFL SIR LOPM 3. 20221020T186180_20221020T1961917_CO01  S. OFFL SIR LOPM 3. 20221020T186180_20221020T1961919_20001  S. OFFL SIR LOPM 4. 20221020T186180_20221020T1961920_CO01	CS_OFFL_SIR_IOPM_2_20221020T161426_20221020T162805_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have been self for nor nor nor nor nor nor nor nor nor n	CS_OFFL_SIR_IOPM_2_20221020T163626_20221020T163855_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221020T174412_20221020T174927_C001  CS_OFFL_SIR_IOPM_2_20221020T174412_20221020T174927_C001  CS_OFFL_SIR_IOPM_2_20221020T174412_20221020T174927_C001  CS_OFFL_SIR_IOPM_2_20221020T174412_20221020T179917_C001  CS_OFFL_SIR_IOPM_2_20221020T179610_20221020T179917_C001  CS_OFFL_SIR_IOPM_2_20221020T179610_20221020T179917_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T189100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185218_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185218_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185218_C001  CS_OFFL_SIR_IOPM_2_20221020T182504_20221020T185218_C001  CS_OFFL_SIR_IOPM_2_20221020T182504_20221020T19617_C001  CS_OFFL_SIR_IOPM_2_20221020T182640_20221020T196241_C001  CS_OFFL_SIR_IOPM_2_20221020T182640_20221020T196282_C001  CS_OFFL_SIR_IOPM_2_20221020T182640_20221020T196242_C001  CS_OFFL_SIR_IOPM_2_20221020T182640_20221020T196262_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195264_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195264_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195264_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195264_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195264_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195264_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195264_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T19555_C001  COGGA Altimeter Range and Backscatter Couality Flags	CS_OFFL_SIR_IOPM_2_20221020T165003_20221020T165142_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T175610_20221020T175917_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T183100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T183100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T18504_20221020T185100_C001  CS_OFFL_SIR_IOPM_2_20221020T18504_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T194241_20021020T192829_C001  CS_OFFL_SIR_IOPM_2_20221020T1933404_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T193330_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T194358_20201020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T194533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T194533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T194533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195533_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T200522_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195750_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200562_C001  CS_OFFL_SIR_IOPM_2_20221020T200	CS_OFFL_SIR_IOPM_2_20221020T170330_20221020T173635_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CDCG Altimeter Range and Backscatter Quality Come or more records  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T183100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T183100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T183100_C001  CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T185218_C001  CS_OFFL_SIR_IOPM_2_20221020T184103_20221020T185218_C001  CS_OFFL_SIR_IOPM_2_20221020T185504_20221020T18517_C001  CS_OFFL_SIR_IOPM_2_20221020T185504_20221020T191617_C001  CS_OFFL_SIR_IOPM_2_20221020T192450_20221020T192414_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192414_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192421_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192438_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192421_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192424_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T192422_C001  CS_OFFL_SIR_IOPM_2_20221020T192425_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T193533_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195259_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195259_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195259_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195259_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195259_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195259_C001  CS_OFFL_SIR_IOPM_	CS_OFFL_SIR_IOPM_2_20221020T174412_20221020T174927_C001	3,	
and Backscatter Quality, COCO Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192414_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192829_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T193438_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T193438_C001  CS_OFFL_SIR_IOPM_2_20221020T19333_20221020T193438_C001  CS_OFFL_SIR_IOPM_2_20221020T19333_20221020T19559_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T19559_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T19559_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T200522_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200522_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200522_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200522_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200542_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200542_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200542_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200542_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200556_2021020T200542_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200556_202100T200556_202100T200556_202100T200556_202100T200556_202100T200556_202100T200556_202100T200556_202100T200556_202100T200556_202100T200556_200566_202100T200556_200566_200566_200566_200566_200566_20056	CS_OFFL_SIR_IOPM_2_20221020T175610_20221020T175917_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T192504_20221020T191617_C001  CS_OFFL_SIR_IOPM_2_20221020T19250_20221020T192414_C001  CS_OFFL_SIR_IOPM_2_20221020T19250_20221020T192414_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192829_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192829_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T193436_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T194336_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195333_20221020T19559_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_2022102	CS_OFFL_SIR_IOPM_2_20221020T182649_20221020T183100_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T192250_20221020T192414_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192829_C001  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192829_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T192829_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T19336_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T193436_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T193405_S_00221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195255_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T19559_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T20079_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T20079_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T20079_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T20079_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T2000709_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T2000709_20221020T200749_C0	CS_OFFL_SIR_IOPM_2_20221020T184103_20221020T185218_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192829_C001  Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T193836_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T194336_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200799_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200799_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001  CCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCEAN Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20221020T185504_20221020T191617_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T194336_C001  CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200799_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200799_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200799_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200799_20221020T20075515_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_2002102055555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_2002102055555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_2002100755555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_2002100755555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_2002100755555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20221020T200201_20021_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20021000T200201_20021007555555_C001  CCS_OFFL_SIR_IOPM_2_20021000T200201_20021000T20555555_C001  CCS_OFFL_SIR_IOPM_2_20021000T200201_20021000T20555555_C001  CCS_OFFL_SIR_IOPM_2_20021000T2000709_20021000T2000749_C001  CCS_OFFL_SIR_IOPM_2_20021000T2000709_20021000T2000749_C001  CCS_OFFL_SIR_IOPM_2_20021000T2000709_20021000T2000749_C001  CCS_OFFL_SIR_IOPM_2_20021000T2000749_C001  CCS_OFFL_SI	CS_OFFL_SIR_IOPM_2_20221020T192250_20221020T192414_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195242_C001  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200759_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T2007515_C001  And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Range and Ba	CS_OFFL_SIR_IOPM_2_20221020T192421_20221020T192829_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200749_C001  CS_OFFL_SI	CS_OFFL_SIR_IOPM_2_20221020T193404_20221020T194336_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200749_C001  CS_OFFL_SIR_IOPM_2_20221020T200749_C001	CS_OFFL_SIR_IOPM_2_20221020T194525_20221020T195242_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20221020T195333_20221020T195759_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimete	CS_OFFL_SIR_IOPM_2_20221020T200556_20221020T200622_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221020T20201_20221020T205515_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221020T200709_20221020T200749_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20221020T202021_20221020T205515_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20221020T205749_20221020T210313_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_20221020T211415_20221020T212646_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_20221020T212702_20221020T214431_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_20221020T214801_20221020T215012_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_20221020T220143_20221020T220155_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_20221020T220555_20221020T221738_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_20221020T221942_20221020T223421_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_20221020T223713_20221020T224212_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_20221020T224232_20221020T224243_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_20221020T224251_20221020T224413_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_20221020T225124_20221020T225941_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_20221020T230813_20221020T232427_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_20221020T234807_20221020T235053_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_20221020T010506_20221020T010756_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_20221020T025456_20221020T025615_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_20221020T033031_20221020T033549_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_20221020T084427_20221020T084429_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_20221020T092434_20221020T092708_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_20221020T102510_20221020T102627_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_20221020T121537_20221020T121659_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_20221020T224413_20221020T224635_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_20221020T052652_20221020T052721_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_20221020T082312_20221020T082451_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_20221020T091734_20221020T092433_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

# 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20221020T001521_20221020T002033_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_20221020T011418_20221020T011721_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_20221020T015308_20221020T015430_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_20221020T015512_20221020T015743_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_20221020T020852_20221020T021015_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_20221020T021450_20221020T021902_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_20221020T024447_20221020T024601_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_20221020T025456_20221020T025615_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_20221020T033031_20221020T033549_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_20221020T051132_20221020T051303_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_20221020T052545_20221020T052601_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_20221020T053357_20221020T053556_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_20221020T071207_20221020T071220_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_20221020T071945_20221020T072316_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_20221020T074355_20221020T074652_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_20221020T084216_20221020T084332_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_20221020T092434_20221020T092708_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_20221020T092902_20221020T093134_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_20221020T093347_20221020T093526_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_20221020T100452_20221020T100645_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_20221020T104722_20221020T104828_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_20221020T110011_20221020T110551_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_20221020T111310_20221020T111449_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_20221020T115916_20221020T120126_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_20221020T120232_20221020T120501_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_20221020T124159_20221020T124336_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for comore records
CS_OFFL_SIR_IOPN_2_20221020T132304_20221020T132437_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for comore records
CS_OFFL_SIR_IOPN_2_20221020T132807_20221020T132949_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_IOPN_2_20221020T133830_20221020T134316_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPN_2_20221020T134416_20221020T134537_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_IOPN_2_20221020T143016_20221020T143240_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPN_2_20221020T164656_20221020T164819_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_IOPN_2_20221020T174927_20221020T175038_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPN_2_20221020T182541_20221020T182649_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPN_2_20221020T191831_20221020T192249_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPN_2_20221020T192830_20221020T192952_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPN_2_20221020T200622_20221020T200709_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPN_2_20221020T200801_20221020T201209_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPN_2_20221020T205625_20221020T205749_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPN_2_20221020T224413_20221020T224635_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPN_2_20221020T230510_20221020T230812_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPN_2_20221020T232427_20221020T232555_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPN_2_20221020T232555_20221020T232705_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPR_2_20221020T002033_20221020T002744_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPR_2_20221020T010329_20221020T010506_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPR_2_20221020T025615_20221020T025844_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 have and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPR_2_20221020T033550_20221020T034327_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPR_2_20221020T034653_20221020T034754_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_IOPR_2_20221020T042157_20221020T042433_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPR_2_20221020T043517_20221020T043937_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPR_2_20221020T051521_20221020T052147_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20221020T055958_20221020T060410_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221020T065340_20221020T070047_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_20221020T070048_20221020T070228_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_20221020T070727_20221020T071103_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_20221020T073932_20221020T074355_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_20221020T075332_20221020T075710_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_20221020T083327_20221020T083445_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_20221020T083501_20221020T083944_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_20221020T091734_20221020T092433_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_20221020T101300_20221020T101826_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_20221020T104051_20221020T104342_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_20221020T115548_20221020T115916_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_20221020T131826_20221020T131901_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_20221020T133114_20221020T133830_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_20221020T141911_20221020T142135_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_20221020T143240_20221020T143516_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_20221020T151241_20221020T151315_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_20221020T151326_20221020T151900_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_20221020T155656_20221020T160112_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_20221020T164819_20221020T164849_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_20221020T165239_20221020T170029_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_20221020T173636_20221020T174059_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_20221020T175917_20221020T180452_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_20221020T183101_20221020T183958_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_20221020T191617_20221020T191831_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_20221020T192952_20221020T193404_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_20221020T201209_20221020T201921_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_20221020T210757_20221020T211415_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_20221020T215105_20221020T215645_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_20221020T215735_20221020T215821_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_20221020T223422_20221020T223530_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_20221020T224635_20221020T225029_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_20221020T225942_20221020T230002_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_20221020T232722_20221020T232808_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_20221020T233020_20221020T233707_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_20221020T235054_20221020T235920_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

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

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:

196

#### 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: 14

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

0

# 6.2 P2P Product Header Analysis

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

Number of products with errors:

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20221019T233302_20221020T002241_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221020T002241_20221020T011217_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221020T011217_20221020T020156_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20221020T020156_20221020T025132_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221020T025132_20221020T034111_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20221020T034111_20221020T043046_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T043046_20221020T052025_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T052025_20221020T061001_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T061001_20221020T065940_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T065940_20221020T074916_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T074916_20221020T083855_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T083855_20221020T092830_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T092830_20221020T101809_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T101809_20221020T110745_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T110745_20221020T115724_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T115724_20221020T124700_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T124700_20221020T133639_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T133639_20221020T142614_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T142614_20221020T151553_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T151553_20221020T160529_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20221020T160529_20221020T165508_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221020T165508_20221020T174444_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T174444_20221020T183423_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T183423_20221020T192358_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T192358_20221020T201337_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221020T201337_20221020T210313_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T210313_20221020T215252_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T215252_20221020T224228_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221020T224228_20221020T233207_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20221020T233207_20221021T002142_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

# 6.5 P2P Measurement Confidence Data Check

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20221020T115724_20221020T124700_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220221020T133639_20221020T142614_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: 2

#### 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: 3

#### 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: 28

#### P2P Retracking Flags PLRM

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

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

Number of products with errors:

30